# Academic year 2021-2022

## Faculty of Management Sciences SDGs Related Graduation Projects





































#### **Accounting Department**

### **Spring 2022**

Names of students	Title of project	Title of SDG	Abstract of the Project	Images of Students
in		related to		
projects		project		
-Aly	Does	SDG9.	The purpose of this research is to	
Tarek	Financial	Industry,	investigate the Effect of Financial	
-Habiba	Inclusion	Innovati	inclusion on bank's Financial	
Kamal	Improve	on and	Performance. An Empirical Study on 8	
-Mario	the	Infrastru	commercial banks Listed on Egyptian	
Atef	Financial	cture	Stock Exchange (EGX100) during the	
-Salah	Performan		period from 2017 to 2021 on quarterly	
Magdy	ce of		basis. The empirical results showed	
	Egyptian		that there is a significant positive	
	Commercia		relationship between financial inclusion	
	l Banks?		and the financial performance of	
			commercial banks. The results showed	
			that the number of ATMs, and bank	
			branches affect positively the financial	
			performance (ROE). All banks should use	
			financial inclusion to attract a lot of	
			people who don't have a secure place to	
			save their money.	
-Amr	The Effect	SDG8.	The purpose of this research is to	
Rashad	of	Decent	investigate the effect of intellectual capital	
-Anas	Intellectual	work	on firm value and financial performance.	
Ayman	Capital on	and	An Empirical analysis was applied on 23	
-Basmala	Firm Value	economi	Company Listed on Egyptian Stock	
Mohamed	and	c growth	Exchange (EGX30) during the period	
-Khaled	Financial		from 2015 to 2021. The independent	
Maher	Performan		variable which is Intellectual capital was	
	ce An		measured by MV equity minus BV equity.	
	Empirical		The dependent variables which are firm	
	Study on		value measured by Tobins'Q and financial	
	Companies		performance was measured by current	
	List on		ratio. The results showed that there is a	
	Egyptian		significant relationship between	
	Stock		intellectual capital and financial	
	Exchange		performance, while there is insignificant	
			relationship between intellectual and firm	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
		project.	value.	
-Osama Salaheldi n - Ali Salaheldi n - Nouran Abdelaziz - Ahmed Osama	The Impact of Board Gender Diversity on Firm Performan ce	SDG5. Gender Equality	This study investigates the impact of board gender diversity, audit committee gender diversity, and CEO gender on firm performance. The sample includes 60 nonfinancial firms with 120 firm-year observations of Egyptian companies listed on the Egyptian Stock Exchange (Egx100) during 2018-2019 period. To test the research hypotheses, descriptive analysis and Mann Whitney U Test are used. Results show that firms with female representation on board have higher performance with its both perspectives (firm's profitability and firm's value). Also, it shows that female representation on audit committee have higher performance from only one perspective	
-Aya Ehab -Malak Mohamed -Mayada Samir -Sarah Ahmed -Youssef Mohamed	Corporate Social Responsibil ity Disclosure and Bank Performan ce: The Moderating Role of Governanc e Mechanism s	SDG8. Decent work and economi c growth	which is firm's profitability. This result is not found when measuring firm's performance using Tobin's Q (firm's value).  This study aims to examine the effect of corporate social responsibility practices on banks performance. In addition, it investigates how one of the corporate governance mechanisms (Board of directors' characteristics) can moderate this relation. The study uses all banks in Egypt (listed and non-listed in EGX) for years (2017-2020). To test the research hypotheses, descriptive analysis, Pearson's Correlation and multiple regression analysis are used. Results show that there is no effect of CSR on bank performance. Moreover, the board of directors' characteristics (size & meeting) have no effect on the relation between CSR and bank performance. However, BOD gender is one of the board of directors' characteristics that affect negatively on the relation between CSR and bank	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			performance.	

#### **Economics Department**

### **Spring 2022**

Names of students	Title of project	Title of SDG	Abstract of the Project	Images of Students
in		related to		
projects		project		
-Mina	The socio-	SDG 3.	This paper aims to determine the impact	
Ehab	economic	Good	of unemployment, Human development,	
-Veronica	determinan	Health	income per capita, depressive disorders	
Maged	ts of suicide	and	and inflation on suicide rates in some	(30)
	in selected	Well-	selected MENA countries through a panel	
	MENA	Being	data analysis from the years 2000 to 2019.	
	countries		The selected countries are Egypt,	
			Lebanon, Algeria, Morocco, Tunisia and	
			Saudi Arabia. Several tests were	Land Dorth
			conducted to reach accurate results that	
			aid in determining our objective. The data	
			was obtained from the World Bank, WHO	
			reports, human development reports, and	V
			Ourworldindata. Furthermore, the study	
			included panel least squares, fixed effects, fixed effects cross section SUR, random	
			effects, and the Autoregressive Distributed	
			Lag (ARDL) co-integration approach, all	
			of which were implemented using the E-	
			Views program. After conducting the	
			tests, our preferred model was fixed effect	
			cross section with Seemingly Unrelated	
			Regression weights (SUR). In the basic	
			SUR model, the errors are assumed to be	
			homoscedastic and linearly independent	
			within each equation. The model	
			demonstrates that unemployment, GDP	
			per capita, inflation rate, and depressive	
			disorders all have a significant positive	
			relationship with suicide rates in the	
			MENA countries we studied; that is, the	
			higher these variables rise, the higher the	
			suicide rates in Egypt, Tunisia, Lebanon,	
			Morocco, Saudi Arabia, and Algeria. On	
			the other hand, the human development	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
-Amir	The impact	SDG 8.	index had a significant negative association with suicide rates, implying that the higher the level of human development, the lower the suicide rate in our chosen countries. Therefore, the paper concludes that an increase in human development and a decrease in unemployment, inflation can lead to a significant decrease in suicide rates in the MENA countries. Accordingly, the paper recommends decreasing unemployment through maintaining political stability which would encourage more foreign entrepreneurs to open their businesses within the countries. This can also be reached by decentralization of industrial facilities. Depressive disorders can also be partially cured through raising awareness through media campaigns, regarding mental issues and the way a patient can get help which will also lead to more healthy and efficient contributors in the economy. Lastly, focusing on research and development and education will raise the human development index and provide more qualified and skilled labor which will further lower suicide rates.  Our research purpose is to analyze	
Osama -Sandra Emad	of tourism on employmen t: A panel data analysis applied on some selected MENA countries	Decent Work and Economi c Growth	and explain the impact of tourism on employment in five countries which are: Egypt, Algeria, Morocco, Tunisia and Lebanon by doing a panel data analysis on these five countries starting from 1995 till 2020. To conduct our research, some tests are done using the independent variables: GDP constant (2015), Gross Capital Formation, International tourism number of arrivals and official exchange rate in addition to a dummy variable (from year 2011 to 2020) to see their impact on our dependent variable which is Employment to population ratio in the five selected	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			countries. After estimating several models, our most preferred model was the common constant model (weighted cross-section SUR) which proved to provide the best explanations and analyses for our data. We also picked the data used from the World Bank's World Development Indicators. Furthermore, the research used many econometric tests and techniques such as unit root test, panel least squared, fixed effects, random effects and some diagnostic tests, all of which were interpreted through the E-views software. In our most preferred model, our research findings were that the international tourism indicated by the number of arrivals as well as the GDP have a positive significant effect on the employment to population ratio our dependent variable. Also, the findings included a significant negative relation between the Dummy variable capturing the events starting 2011 until now and our dependent variable Employment to population ratio. Finally, as a policy recommendation, we recommend the policy makers to ensure their country's political stability as it is proved that the lack of political stability as it is proved that the lack of political stability in the five selected countries affects negatively the employment sector. We also recommend them to continue making international events like the Mummies parade as it enhances the tourism sector, which in turn proved to significantly impact employment.	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
-Aya Khaled -Retaj Mohamed	Does banking technology help in producing a cashless economy? A panel study on some selected MENA countries	SDG 9. Industry, Innovati on and Infrastru cture	The research paper will focus on the impact of banking technology in promoting a cashless economy in some selected MENA countries, namely Algeria, Egypt, Israel, Kuwait, Morocco, and Qatar by using panel data analysis from 2004 to 2019. Additionally, we will estimate the impact of the number of automated teller machines (ATMs), mobile subscriptions (MOBs), deposit interest rate (DIR), number of banks' branches (NBB), and education (EDU) on the cash in circulation (CIC). The methodology that the paper used started with descriptive statistics. Furthermore, a correlation analysis was conducted. Additionally, the panel unit root tests were used to check the stationarity of the variables. Besides, panel least-square analysis conducted includes the common constant, fixed, and random effects. Furthermore, GLS was conducted. Finally, the preferred model was the fixed effects with Seemingly Unrelated Regression (SUR) weights. Additionally, diagnostic tests were conducted, which includes normality and cross-section dependence. The main findings of the paper resulted that the ATMs, DIR, NBB, and MOBs promoted a cashless economy. However, the results of the EDU, illustrated that it does not promote a cashless economy. Finally, we recommend that governments of the MENA countries should encourage people to use banking technology to reduce the currency in circulation, by giving incentives for the banks to supply more cards and lowering the taxes for the banks that help them to provide ways to promote a cashless economy. Also, governments should put regulations to improve internet services to	0.1 (c)

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			promote a cashless economy.	
-Omar	Foreign aid	SDG 8.	The thrust of this study was to analyze the	
Hatem	and	Decent	impact of Official Development Aid	2 2
-	economic	Work	(ODA) on Egypt's economic growth using	
Mohamed	growth:	and	autoregressive distributed lag model	
Atef	The case of	Economi	(ARDL) from 1971 to 2021. In order to	
	Egypt	C	attain the objective, relevant time-series	
		Growth	secondary data were collected from the	
			World Bank using the following variables: inflation rate (CPI), GDP per capita	
			(GDP) ODA which is the official foreign	
			assistance, GCF (Gross capital formation),	
			population growth rate (PGR) and FDI	
			(Foreign direct investment). The study is	
			supported by econometrics models carried	
			out by the E-views statistical program.	
			Moreover, results from the analysis have	
			confirmed that there is a positive effect	
			that is significant between population	
			growth rate and GDP per capita in the	
			short run and insignificant effect between	
			population growth rate and GDP per	
			capita in the long run, negatively	
			significant relationship between ODA and	
			GDP per capita in the short run and	
			insignificant effect between ODA and GDP per capita in the long run, positive	
			significant relationship between inflation	
			rate and GDP per capita in the short run	
			and negative significant relationship	
			between inflation rate and GDP per capita	
			in the long run, insignificant relationship	
			in the long and short run between FDI	
			and GDP per capita, while positive	
			significant effect of GCF on GDP per	
			capita in the short run and long run.	
			Thus, the results found have shown that	
			there will be significantly negative effect in	
			the short run between ODA and GDP per	
			capita while insignificant effect between	
			ODA and GDP per capita in the long run.	
			In order to ensure the well stability and	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
-Fatma Mohamed -Selvia Rafik	What determines happiness in MENA countries? A panel data analysis	SDG 3. Good Health and Well- Being	functioning of the economic state in Egypt several laws and policies regarding pricing, borrowing, and investment systems must be placed. Government in Egypt should be aware that the foreign aid they receive might affect their economic growth in a negative way especially in the short run. ODA has shown to be insignificant in the long run.  This research investigates the impact of the countries' resources on people's life satisfaction by using the data of some selected MENA countries over the period 2010–2019. Basically, the variables used to measure people's happiness are agriculture value-added, oil rents, inflation rate, carbon dioxide emissions, and GDP growth rate. Additionally, the methodology used to test for the relationships between the variables are the panel least square, fixed effects, and random period effects model using the Eviews 10 program. Findings revealed that oil rent has a negative insignificant impact on life satisfaction. CO2 has a negative	
			insignificant impact on life satisfaction. Agriculture value-added has a positive significant impact on life satisfaction. Inflation has a negative insignificant impact on life satisfaction. GDP growth rate has a positive and significant impact on life satisfaction in the thirteen selected MENA countries. Accordingly, we recommend that countries with a high agricultural value-added share of GDP should support their farmers by offering higher prices for their produce to improve their living conditions and improve their life satisfaction. Also, this higher productivity can increase output, which can increase GDP and therefore lead to higher levels of life satisfaction in the	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			MENA countries.	
-Mina	Stock	SDG 8.	This research aims to investigate the	Commence of the last
Gerges	market	Decent	relationship between stock market	Charles and the
-Ahmed	developme	Work	development and economic growth in	
Kamal	nt and .	and	MENA by using the data of some selected	
	economic	Economi	MENA countries (KSA, UAE, Jordan,	SAN AND TO SERVE
	growth: Evidence	c Growth	Egypt, and Iran) over the period 2008- 2020. Nowadays, stock market became a	N A
	from	Growin	topic that most people want to learn about	
	selected		and invest their money through it to	
	MENA		protect their savings from inflation.	
	countries		Basically, we selected three variables	
			namely the stock market capital (CAP),	
			exchange rate (XR) and foreign direct	
			investment (FDI) to see their impact	
			economic growth through the gross	
			domestic product (GDP). Additionally, the	
			methodology used to test for the	
			relationships between the variables are	
			panel least square using E-Views 10.	
			Moreover, the study found that the stock	
			market capital and the foreign direct	
			investment have no significance on the	
			economic growth. On the other hand, an increase of one dollar relative to the local	
			currency (depreciation of the currency of	
			the MENA country) would decrease GDP	
			of the country. Accordingly, we	
			recommend that policy makers in MENA	
			countries should increase their efforts to	
			decrease inflation rate which drive the	
			exchange rate down.	
-Mario	The	SDG 8.	The general objective of this paper is to	
Hanna	Relationshi	Decent	examine immigrants' effect on	
-Lyana	p Between	Work	unemployment rate in Egypt. By	
Mohamed	Immigratio	and	conducting a time series analysis	
	n and	Economi	comprising data starting from 1970 until	
	Unemploy	c	2017, our research will investigate the	
	ment: The	Growth	effect of the independent variables- GDP	
	Case of		growth, GDP/capita, Gross Capital	
	Egypt		Formation, international migrant stock on	
			the dependent variable which is the	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			unemployment rate in Egypt. We also attempt to empirically verify our model using data from the World Bank's indicators and Macrotrends statistics. The study will be supported using econometric models done through statistical program E-Views. The results concluded that immigration has no detrimental effect on the situation of unemployment in Egypt, in the long and short run, whilst gross capital formation at 1st, 2nd and 3rd lags has a negative significant impact on the unemployment in the short run. However, the gross capital formation at level has a negative but not significant impact on the unemployment on the short run. Furthermore, GDP per capita has a positive significant impact on the unemployment. Both GDP growth and per capita income proved to be significant at the 10% significance level on the long run. Finally, according to the results, we are aiming to provide the government an insight regarding how to lower unemployment rate.	

# Graduation Projects Related to the Sustainable Development Goals Management Information Systems (MIS) Department Spring 2022

Names of students	Title of project	Title of SDG	Abstract	Images
in		related to		
projects		project		
-Rana	E-Blood:	SDG 3.	An information system that facilitates the	
Fahad	Smart	Good	exchange of blood bags between	
Haggag	Blood	Health	physicians, hospitals, patients, donors and	
-Rana	Bank.	and	blood banks to minimize the risks	A TOWN
Mohamed		Well-	resulting from poor blood supply and	
Sayed		Being	increase the efficiency of saving lives on a	
-Rawan			daily basis. It helps in reducing the steps	
Khaled			of acquiring the blood bags for blood	
Abdelmo			transfusion. The system will be sending	A
nsef			staff members from blood banks to receive	
			donations from blood donors. In addition,	
			the system will be in charge of locating	
			blood bags in the blood banks through	
			RFID (Radio frequency Identification)	A
			chips, it will be in charge of delivering	
			blood bags to hospitals, patients and	
			doctors. Furthermore, physicians,	S
			hospitals and patients will interact with	
			the system by searching for the blood type	4
			needed and ordering it from the blood	
			bank/hospital, the system will be in charge	
			of submitting the request and collecting	
			the needed information for the transfer.	
			The system will also be in charge of taking	
			donation requests from donors after the submission of medical reports, the system	
			will be in charge of prioritizing the	
			requests upon severity of the patient's condition, the system will also be in charge	
			of alerting previous donors for the need	
			for their blood type, the donors will be	
			able to track their blood on its way to the	
			hospital as well as the transfusion to	
			ensure the usefulness of their blood.	
			chant the userumess of their blood.	

Names of students in projects	Title of project	Title of SDG related to project	Abstract	Images
-Amina ahmed  -Mirna ashraf - Abdelrah man mohamed	Logical design for an intensive care system	SDG 3. Good Health and Well- Being	The intensive care units are one of the major places in the hospitals, because the patients there are at a very risk about their health so, the doctors should take care of them efficiently to help them to pass this hard stage in their life and keep them alive in good physical health. the main idea of this system is to create easy, efficient, fast ways to assist the medical team in the intensive care to keep their patient health in a good situation. The system offers an easier way to measure and monitor the patient vital stats by using a smart bracelet and saving his/her information in the cloud system and keeping the past medical records if needed and sending feedback to the patient's family to keep them updated by his situation also make it easy and fast to get all the information about any patient for the doctors to take right decisions in small time .by using SENSORS in the bracelet, it makes alarm to the staff if there are any changes in the patient's vitals. The bracelet has a feature which is a request assistant button, by clicking on this button the nurse or the doctor will have a notification that the patient needs them. The system provides a fast and efficient response to the medical emergency in the IC (intensive care) if there is an irregular measurement in the patient's vital stats it will immediately requests a medical assist and equipping the operation room for fast response. The system also will track the blood bags, oxygen types, and medicine by attaching to them RFID tags that can be readied by RFID readers that attached to the door of IC storage room and record the numbers of them and request from suppliers to deliver the deficiencies in the numbers to avoid any shortage in it.	IFOR SAMPIONS RIP.  MORAUS  MO

Names of students in projects	Title of project	Title of SDG related to project	Abstract	Images
-Ahmed Saeed -Marina Maged -Marwa Shaker	Logical Design for an Agriculture System	SDG 9. Industry, Innovati on and Infrastru cture  SDG12. Responsi ble Consum ption and Producti on	The main goal of the project is to make the response to the patient as fast as possible and keep the data of the patient like the time of the medicine and the type of the disease he suffers from and other information about his health in a bracelet which he will wear it during the time he will spend in the intensive care so it will also track his oxygen and his blood floating and other things that if he has deficiency in it the bracelet will make a light to alert someone to help him.  A system to provide modern precision agriculture to maximize the benefits and gains of the enhanced Algorithms in the agriculture sector clear, especially on the productivity of the crops to the firms that in the food production using the modern methods in planting, monitoring, and controlling the crops. Using algorithms for environmental sustainability could aid our recent attempts to protect the environment. The system aims to minimize a lot of problems in agriculture which help in growing crops in a controlled environment. This system will use internet of things (IoT) technology, and algorithms, to automatically detect the crop in detail.	Your Saley and as a final series of the seri

Names of students in	Title of project	Title of SDG related to	Abstract	Images
projects		project		
-Adham Ahmed Mostafa -Ahmed Mohamed Eldiba -Basil Mohamed Elnaggar	Online reservation and payment system of Cairo Metro	SDG 9. Industry, Innovati on and Infrastru cture	The system is called [Online reservation and payment system of Cairo Metro]. The system is a software application that provides online services in the railway sector (Metro). The system domain is the public transportation. (The railway sector, Metro). This system is designed to ease the process of reservation as well as payment for metro passengers, especially commuters. It enables the passengers to check the schedule of the metro and book a seat directly by using their mobile phones or from the kiosk that would be placed in the metro station which would serve the passengers who don't have smartphones after creating an account on the application, the passenger can easily book and pay for their rides and see all the metro lines and its time schedule. The system will keep the users updated with any circumstances that may lead to lateness of any metro line, by sending a notification to the users on their smartphone and by displaying these messages in the metro station. These updates will be reported by the admin (railway worker).	
-Marwan Gamal -Magda Mohamed -Ahmed Fahmy -Youssef Mohamed	Logical Design of Predictive Maintenan ce system	SDG 9. Industry, Innovati on and Infrastru cture  SDG 12. Responsi ble Consum ption and Producti on	The project name is Predictive Maintenance system. This system is to track the equipment performance in real- time and predicts machine maintenance options so the organization can fix them before they cause any downtime. This system scop is a service that helps to provide a single-point solution. This system will predict is there any shutdown in different parts of the machine before it actually happens and then predicts maintenance options. This system is using internet of things IOT technology through different sensors which are (Oil sensor, Vibration sensor, and temperature sensor)	

Names of students	Title of project	Title of SDG	Abstract	Images
in projects	ргојоос	related to project		
			to collect real-time data from the machine based on their role through the IoT gateway and through using machine learning technology that compares and analyzes the historical and real-time data and predicts maintenance options to save cost that can be caused by unexpected downtime. The maintenance manager will then choose the perfect maintenance options and create work orders for maintenance workers to work on it before the failure happens.	
-Yara Waheed -Ahmed Gomaa -George Nader	The Logical System Design of Health System	SDG 3. Good Health and Well- Being	Mental illnesses are considered as one of the most dangerous problems that face health institutions and families. This system provides support in the form of distance care for families of mental illness people. As a result, the role of the system takes place. This system will be called the Frontida which means the care in the Greeks. A Frontida system that makes	
			facilitates communication between parents of patients and doctors to give parents the feeling of safety. Additionally, the system will help doctors to know the health status of patients by using the chip under the skin. The system will offer a real-time location of mental illness patients who wearing the chip to save them if her/his wants to escape. The mobile application will be used by the doctors and families of the patient to know daily reports about their patient.	
-Nouran Wael -Sandy George	Logical Design of Informatio n System for Autistic Children	SDG 3. Good Health and Well- Being	Hand in hand application provides a service for parents that have children with autistic spectrum disorder that are seeking after their children's safety. The kindergarten will provide the child with Huawei GT 3 smartwatch that will measures the child heartrate, body temperature, oxygen levels and track the children through the GPS. The parent	

Names of students in projects	Title of project	Title of SDG related to project	Abstract	Images
-Mona Ibrahim -Ahmed Mahmou d - Mohamed Ehab	Logical deign of Informatio n system of Child tracking system	SDG 4. Quality Educatio n	would download the application which is connected to the child's smartwatch that measures the child's heartrate, body temperature, the oxygen levels and track the children through the GPS, if any of the parameter values deviate from the normal rates, the application would notify the parent, the nurse, and the manager right away to make the necessary measures.  This system aims to provide parents and schools who want to track their children for medical purposes, safety purposes, and educational purposes. As a result, the child tracking system is developed to give parents a tool for tracking location, health condition, and educational level. The application can be used by parents, school admin, teachers, and school doctor through their mobile phones, tablets, laptops, or PCs. This will be connected to a wearable TickTalk 4 smartwatch that can be used by child. Further, this system will be applied to "A" class schools that will be able to afford the smartphone and the smartwatch "TickTalk 4".	
-Donia Tharwat -Fady Ashraf -Habiba Ahmed	Racing tracking system	SDG 9. Industry, Innovati on and Infrastru cture	Abstract available at MSAR	
Ahmed Ali Ahmed Flaifl	Elevator maintenanc e system	SDG 9. Industry, Innovati on and Infrastru cture	Abstract available at MSAR	

Names of students	Title of project	Title of SDG	Abstract	Images
in	project	related to		
projects		project		
Abanoub tarek fouad	Logical design for Monitoring the structure of train rails system	SDG 9. Industry, Innovati on and Infrastru cture	Structural health monitoring (SHM) is a device of evaluating and identifying damage in the physical structures of the train rails. The structural health monitoring device will be located on the railway track and contain three types of sensors (piezo sensors, strain gauge sensor, temperature sensor). The SHM device will be connected with a monitor in a technical room. Waves that come from the device will be transferred by the wireless network over TCP/IP internet protocol. there will be a web application for the maintenance workers and managers to monitor the structural health of the railway track. RFID technology also will be used to identify the train information. Also, the maintenance manager will be able to review previous data about the condition that stored in a database server. Alert messages also will be sent to the maintenance manager to inform the	
-Rahma Mahmou d - Abdelrah man Samir	Logical design for smart fitting room	SDG 9. Industry, Innovati on and Infrastru cture	maintenance workers about the maintenance actions needed.  In this project, we will design a system of Smart Fitting Rooms that offer great potential to enhance customer shopping experience in retail fashion stores.  Physical stores need to play to their strengths and engage customers in novel ways. Stores have the possibility to act as experimental arenas, where customers can browse apparel through interactive and try on products in semi-realistic situations, the virtual fitting mirror allows customer to simulate trying on clothes, and the process will be as follows  First, client create account on the website page, by entering an email, user name, password, and phone number, which is	

Names of	Title of	Title of	Abstract	Images
students	project	SDG		
in		related to		
projects		project		
			linked to the smart mirror. Then she/he	
			could request an available room to try	
			clothes visually and make the shopping	
			process, after client enters the cabin	
			she/he can adjust the lighting and	
			customize the background of his/her	
			reflection. The RFID antenna Scanning	
			takes a 3D photo to customer shape which	
			will be displayed on the smart Mirror	
			inside the Smart fitting room. Then she/he	
			will view the outfit on the system and view	
			available size, price, and colors. After	
			choosing his/her outfit from the displayed	
			clothes. The mirror will display on the 3D	
			photo that the RFID antenna scan it from the client. She/he can change the chosen	
			outfit and try many outfits, finally she/he	
			will request the most suitable outfit and	
			pay via cash or credit. If client needs any	
			help or couldn't understand any	
			transaction or process she/he can send	
			alert to the assistance to help in the	
			process. Employee will input data of	
			rooms and clothes in the shop, displays the	
			Available smart room in the System to be	
			shown to the client, and accept client's	
			requests. Store Manager displays the	
			available outfits on the system in order to	
			be shown to client.	

#### **Marketing Department**

### **Spring 2022**

Names of students	Title of project	Title of SDG	Abstract of the Project	Images of Students
in projects		related to project		
-Abdallah	The impact	SDG 10.	This research is aiming to study the	
Mohamed	of hiring	Reduced	impact of customers' orientation	
-Mario	people with	Inequalit	programs and customers' perception	
Maged -	disabilities	ies	towards the brand in disability-operated	
-Sherif	on		branches on the customers' attitude. This	
Maged	customer		research's data was obtained from both	
-Omar	attitude		primary and secondary data, as the	
Khaled	applied on		researchers reviewed and used previous	
	KFC"		academic articles studying the effect of	
			hiring people with disabilities on the	
			customers' attitude in different aspect.	
			The researchers also conducted in-depth	
			interviews with two industry experts in	
			order to obtain valuable insight about the	
			effect of hiring people with disabilities, an	
			online questionnaire was formed and answered by 274 respondents from both	
			genders males and females with the	
			purpose of measuring their opinion about	
			the topic of hiring people with disabilities.	
			Finally, the data obtained from the	
			previous convenience methods were	
			analyzed using SPSS program and Smart	
			PLS program. The findings of this	
			research indicated that customers'	
			orientation programs and customers'	
			perception towards the brand have an	
			impact on the customers' attitude in the	
			aspect of dealing with disabled employees.	
-Ahmed	The Impact	SDG 9.	The purpose of this research is to	
Abdel	of Artificial	Industry,	investigate the impact of artificial	
Hakim	intelligence	Innovati	intelligence on workforce productivity in	
-Ahmed	on	on and	the telecommunication sector. To	
Asser	Workforce	Infrastru	complete this research successfully, the	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
-Ahmed Ashraf Shahin -Nada Mohamed	Productivit y in Tele- communica tion Companies	cture.	researchers used a primary and secondary data through conducting in depth interviews with a convenient sample and by using articles to measure the relationship between variables by assessing the results of questionnaires distributed among 293 employees by using SMART PLS and statistical package for the social science (SPSS). The research found that there is a significant relationship between artificial intelligence and workforce productivity. The research also found that there is a significant relationship between artificial intelligence and unemployment and negative relationship between artificial intelligence and service quality. Artificial intelligence can dramatically improve the efficiencies of our workplaces and can augment the work humans can do. Managers should apply AI as it supports new capabilities and business model expansion. It also leads to better customer service, better quality and reduction of human error. Furthermore, Using AI, people will be able to spend more time on exceptional	
-Ahmed Amgad -Fady Mohamed -Seif Hany	Investigatin g consumers' intention to switch from fuel to electric cars in Egypt	SDG 7. Affordab le and clean energy SDG 14. Climate action	The purpose of this research is to investigate the factors affecting the customer purchase intention of electric cars applied on the Egyptian customers. In this research, the researchers used the two types of data which are secondary, and primary data to collect more information and complete this study successfully, for the secondary data the researchers used previous articles to measure the relationship between TAM model and consumer's purchase intention, and for the primary data, the researchers conducted in-depth interview with experts, and assessing the results of the	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
			conducted online questionnaires among 272 participants, and the results of this study was conducted by using IBM's statistical package for the social sciences (SPSS) In this research the researchers found that there is a positive relationship between customer purchase intention of electric cars and perceived usefulness and there is a positive relationship between customer purchase intention of electric cars and the perceived ease of use, but they found there is no relationship between perceived risk and the customer purchase intention to the electric cars. Investigating the intention of consumers to buy electric cars in Egypt is very important nowadays for marketers to keep the environment without pollution. To know well how consumers think and feel about electric cars, as well as to know the aspects that consumers have taken into account when considering the purchase of an electric car such as usefulness, ease of use or risk, as well as knowing how to attract them using the right tools in marketing campaigns.	
-Amr Sameh -Ahmed Ashraf -Adel Khaled -	Investigatin g factors affecting Egyptian citizen intention to switch from electricity mechanical meters to electronic digital meters	SDG 9. Industry, innovati on and infrastru cture	The purpose of this research is to measure the switching intention of citizens from the old electric meter to the new digital electric meter of both gender and how does the characteristics, ease of use and perceived risks can affect the citizens switching intention to the new digital meter and how can they see these factors can change their opinions about the switching intention. The researchers used secondary data for collecting more information about the research topic and they used primary data for the purpose of measuring the relationship between the variables by stating the result conducting from asking 177 in form of questionnaires	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
-Livon Alber Demerjia n - Mohamed Khaled Sharaf -Nourjina Emad El Dine -Zeyad Mohamed Hassan -	Youth perception of the educational grants provided by the Egyptian ministry of communica tions and technology	SDG 4. Quality Educatio n	that are composed of 126 males and 51 females and these data were conducted by using the IBM's statistical package for the social science (SPSS) The researchers found that there is a positive and a significant relationship between the consumer characteristics and switching intention, ease of use and switching intention and perceived risks and switching intention. The reason behind this research was to investigate important factors so that decision makers know how to encourage Egyptian citizens to switch to the new digital meter. This research studies the factors affecting the citizens switching intention from the old electric meter to the new electric digital meter.  The purpose of this research is to measure the perception of the Egyptian youth of the grants provided by the Egyptian ministry of communication and information technology. In this research, the researchers used secondary and primary data to collect more information and complete this study successfully. The researchers conducted in-depth interview with experts, and conducted questionnaires among 147 participants who took grants provided by the ministry. The researchers found that there is a strong relationship between benefits of the grants provided and youth perception, also the researchers found that there is a significant difference between perception of youth who took the grant and youth who did not. This research will help the decision makers in the ministry to focus on providing grants which will help the youth to improve their future career and enhance the education quality.	

projects project	
Abdelrah man Egyptian Elsayed -Ahmed Abd El with hakim services provided by agricultural association and farmer's satisfaction with services used two kinds of data collection to measure the Egyptian farmer's satisfaction with services provided by agricultural cooperative association and farmer's satisfaction. The researchers used two kinds of data collection to measure the Egyptian farmers' satisfaction with services provided by agricultural cooperative association and farmer's satisfaction. The researchers used two kinds of data collection to measure the Egyptian farmers' satisfaction with services provided by agricultural cooperative association and farmer's satisfaction. The researchers used primary data by asking experts and farmers directly. The researchers conducted 100 questionnaires to measure the satisfaction of the Egyptian farmers with the services provided by agricultural cooperative associations. The researchers found that there is a positive relationship between the quality of products and services provided by agricultural cooperative associations. Customer satisfaction is always main factor for any organization success and to make farmers satisfied cooperatives should improve the quality of products and services provided by them also they should provide farmers with different	

#### **Economics Department**

#### **Fall 2021**

Names of students	Title of project	Title of SDG	Abstract of the Project	Images of Students
in	μισμοί	related to		otuutiita
projects		project		
-Omar	The Effects	SDG 8.	This research investigates the effects of	
Soliman	of	Decent	macroeconomic variables on stock returns	
-Khaled	Macroecon	Work	in Egypt, Morocco Pakistan and Turkey	
Ahmed	omic	and	by using a panel data analysis. The impact	
	Variables	Economi	of macroeconomic variables on stock	
	on Stock	c	performance on various stock markets is	
	Returns in	Growth	attracting increasing attention around the	
	Egypt,		world. The relationship between stock	The second secon
	Morocco		returns and macroeconomic variables has	
	Pakistan		been researched by a number of	
	and		academics, practitioners, and economists	
	Turkey: A		in this We investigate the impact of GDP	
	Panel Data		growth, real interest rate, exchange rate	
	Analysis		and inflation rate on the growth of stock	
			market returns in the four countries.	
			After conducting the preliminary unit root	
			and correlation tests, the model was	
			estimated using the Autoregressive-	
			Distributed Lag (ARDL) technique, in	
			addition to the other diagnostic tests such	
			as the normality and autocorrelation tests.	
			The tests revealed that on the long run,	
			real interest rate has a negative effect on	
			stock returns in the selected countries.	
			This means that increases in real interest	
			leads to decreases in stock markets	
			returns growth, while the depreciation of	
			the local currencies leads to increases in	
			stock market returns growth. Results also	
			revealed that the four macroeconomic	
			variables are co-integrated with the stock	
			market returns in the selected countries.	

Names of students	Title of project	Title of SDG	Abstract of the Project	Images of Students
in projects		related to project		
Adel Alaa	The Impact	SDG 8.	This research investigates the impact of	
Auci Alaa	of Foreign	Decent	Foreign Direct Investments on Egypt's	
	Direct	Work	merchandise exports from the period 1970	
	Investment	and	to 2021. Moreover, the study guided by	
	on Egypt's	Economi	three main objectives. First, to establish	
	Merchandi	c	how FDI inflows affect Egyptian	
	se Exports	Growth	merchandise exports. Second, to explore	
	•		effect of foreign currency reserves on	
			Egyptian merchandise exports and third,	
			to explore the impact of Real GDP impact	
			on Egyptian merchandise exports. The	
			methodology used to test the relationship	
			between the variables included unit root	
			tests and ARDL models using E-views 10	
			program. Findings revealed that in the	
			short run, inflows of foreign direct	
			investment have a positive association	
			with Egypt's merchandise exports;	
			reserves of foreign exchange have an	
			adverse association with Egypt's	
			merchandise exports; while real gross	
			domestic product has a positive	
			association with Egypt's merchandise	
			exports. On the other hand, results in the	
			long run showed that there is a positive	
			relationship between FDI and	
			merchandise exports and also between	
			Real GDP and merchandise exports.	
			However, the relationship between foreign	
			exchange reserves and merchandise	
			exports is insignificant in the long run.	
			Two important recommendations were	
			established following the study findings.	
			First, since GDP was found to positively	
			impact merchandise exports policy	
			makers should try to raise GDP to boost	
			exports. This could be done through fiscal	
			and monetary policies. Second, Since FDI	
			proved to be vital for boosting	
			merchandise exports, policy makers should encourage FDI by implementing	
			laws that support foreign investors.	

### **Management Information Systems (MIS) Department**

#### **Fall 2021**

Available Recipes Application   Recipes Application   Available Recipes   SDG 3.   Good Ahmed Application   Health and Well-Being   Health and Elbahi   SDE 3.   This project's name is Available Recipes provides a supplication. Available Recipes provides a paplication. Available Recipes provides a paplication. Available Recipes provides a service for students living on a budget or other people who have to cook for themselves and other people learning and are willing to experiment with their cooking. Available Recipes records the user's pantry to gather information on what ingredients are available and the quantity remaining. With that information Available Recipes goes through a database of different recipes and, considering the user's dietary needs or restrictions, it displays a list of step by step recipes for health and convenience with the aid of a chat BOT, all while being budget friendly.  This project has the opportunity to help students and other people living on a more limited budget to experiment with cooking and live a healthier life, as options in my country are limited and most people resort to fast food which is neither healthy nor budget sensitive.  The blood Bank management system application has a main idea which is to solve problems related to blood collection from donors and distribute blood bags to the needed hospital. This system aims to the needed hospital. This system aims to create a linked bond between persons who donate blood according to their blood group, as well as insurance without a disease, distributing them for interested hospitals according to criticality of	Names of	Title of	Title of SDG	Abstract of the Project	Images of Students
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Sherif Salah  Manageme nt System Application  Mealth and Well-Being  Manageme nt System Application  Mealth and Well-Being  Manageme nt System Application and Well-Being  Manageme nt System Application  Mealth and Well-Being  Manageme nt System Application has a main idea which is to solve problems related to blood collection from donors and distribute blood bags to the needed hospital. This system aims to build a good management framework relationship for blood banks and aims to create a linked bond between persons who donate blood according to their blood group, as well as insurance without a disease, distributing them for interested hospitals according to criticality of		DI 1D 1	GD G 3		
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hospitals according to criticality of					
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patients cases. This research work solves				patients' cases. This research work solves	

students project SDG Students in related to project project	of Its
the above-mentioned problem with the development of both web-based and Android-based blood bank information retrieval system. The web application is used by various blood banks system administrators to update them available blood inventory information and the mobile application which has the mobile search engine is used to search for blood supplies from the registered blood banks. The project will also include the IOT technology which will be implemented as RFID system each qualified blood bag is affixed with a unique barcode of RFID tag with corresponding identifiable information to scan it to access and verify their identity, this use of software with physical elements such as smart tags, and RFID beacons, that makes blood banks and hospitals improve their operations safely, consistently and in harmony with their processes and quality.  This project suggests the idea of having a peer to peer car rental application with a computer based information system almost tis going to be a platform having the base of it as its users; the main users are the client and the host. The host is going to be a car owner who is willing to gain some extra money on the side while benefiting the clients as well by renting/lending his car for a value of money, since transportation methods are not always suitable for everyone especially for users who are always on the go, depending on their usage. Car rental reservations will have a start date and an ending date with the prerequisites of the host to have a license for the car itself and an official car safety check from the car's official maintenance	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
Youssef Mohamed Aman	Design of Information System to an autorepair shop.	SDG 9. Industry, Innovati on and Infrastru cture	center. The client on the other hand has to have a personal license in order to be able to register an account on the application's server. The rental price is going to be matched based on class criteria, the higher the class the higher the price is. The application will match the hosts with clients based on their historical rating throughout the usage of applications. Ratings will be out of 5 and calculated by a total average of a user's total ratings. This project/application will meet the needs of anyone who is stuck in the public transportation hole; while making it more flexible for the users on both sides. It will also ease the method of payment as it will have various ways to pay with whatever suits both parties of the agreement.  An auto-repair shop system that helps the mechanic and facilities their day-to-day work, in addition to helping the manager/owner in other aspects of the business. The system does a lot of the work that takes time through the day; such as identifying the problems in the car, displaying it for the mechanic in the form of a to-do list. The system also checks for the available spare parts. There will be a feature for the technician time logging for shifts. The system will also deal with the managerial part of the business/garage, from issuing accounting and financial functions like issuing invoices, calculating tax, and managing the employees' payrolls. It will also deal with the updating the customers with offers and new events through emails and promotion messages, in addition to reminding them about their next service appointment.	
Eyad Ahmed	Logical Design of	SDG 3. Good	An E-Smart Collar System application that is put onto a smart pet collar with a	

Names of students in	Title of project	Title of SDG related to	Abstract of the Project	Images of Students
projects		project		
Mohamed	Informatio	Health	small screen, to provide help for pet	
Abul-Ella	n System	and	owners, who usually encounter issues with	
	for a Smart	Well-	their pets that they don't understand, The	
	Pet collar.	Being	system would also help the pets in living better lives without underlying medical conditions.	
			This system basically tracks your pets	
			health by a small collar that is attached	
			with a mini touch screen that's waterproof	
			with a long battery life, so it would be	
			practical for both pets and their owners,	
			the system tracks the pets heartbeat, blood	
			pressure, and sugar levels, as well as	
			having a temperature sensor, and if it	
			seeks immediate attention the pet owner	
			will be notified. The users for this system	
			will be connected directly to their pets	
			Smart collar by scanning a QR code right	
			away, and connect the system application	
			to their phones, whenever something is	
			abnormal the system proposed should	
			ping the owner immediately that	
			something is wrong with the pets health,	
			the system also offers a GPS tracking that	
			is only accessible by the owner after	
			scanning a 2nd QR code that was shown on the smart Collars screen, once the	
			smart collar is attached to the pet, the	
			system automatically reminds the owner	
			with the vaccination times by sending	
			notifications to the pet owner, based on	
			this the system application gives a list of	
			the possible appointments and awaits for	
			confirmation from the pet owner to send	
			the confirmed time to the clinic/hospital	
			that is linked with the system, It also helps	
			with the meal times by sending	
			notifications to the owner of the system.	
Elsayed	Computer	SDG 8.	Online auction is a business model where	
Abbas	Based	Decent	the items are sold through price bidding.	
Reda	informatio	Work	Bidding has the start price and ending	
	n System	and	time. Potential buyers in the auction and	

Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
	Graduation Project Online Auction System	Economi c Growth	the winner are the one who bids the item for highest price within the stipulated time. For buying product online user must provide his personal details like email address, contact number and card scanned copy. Now, there comes the role of security. The email address will be verified via link having a certain expiry time. And the contact number too is validated using an OTP. Only an authenticated user will have the authority to bid. This prevents various frauds accordingly in online auction gaining trust of the clients. Basically, the whole projected is divided into modules which will be worked upon separately for a final integration to get the desired online auction service. This project will solve this problem by developing an online platform where users can list products for sale. The products will be accompanied by a description of the object, its sale price, and a photo display for the bidder to see (Dutta&Ramamoorthy, 2009). If the buyer is interested in the item, he or she will auction for it and then inspect it physically to accept it before concluding the transaction with the seller so at the end of the auction the item will be for the highest price which has been reached it is not for a specific item you can buy and sell everything with the online auction it's marketplace but with the auction not ordinary market. Browse through different categories of available auctions, with commonly offered items including collectibles, antiques, toys, clothing, art, cars, tickets, electronics, and even real estate.	
Jouri Samer Omar	Artificial Intelligence Web	SDG 8. Decent Work	The project is a Web Artificial intelligence Matching System for MSMEs and Investors built on a new advanced	

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Abdel- baqi	Matching System for MSMEs and Investors"	and Economi c Growth	artificial intelligence matching system that uses machine learning and natural language processing. The proposed project connects investors with (SMEs) entrepreneurs. The main purpose of this project is to address the funding gap that SMEs and startups face by bringing both investors and entrepreneurs in the ideal financing model. To meet these objectives, the problem of irrelevant search results must be addressed by fine-tuning the results using an AI automated matching system. The system can provide datadriven matches one at a time, modifying the data every time a user refuses or approves a match, resulting in more attainable outcomes. As a result, the main goal of this project is to assist entrepreneurs and investors in gaining access to further funding opportunities.	
Moayad Hesham Hassan Tawfik	Logical Design of Real estate customer relationshi p manageme nt	SDG 9. Industry, Innovati on and Infrastru cture	The CRM stands for (Customer Relationship Management) which is a technology developed to manage all company relationship with its customer and also potential customers. The objective of any CRM is to improve and grow any business by helping those business to stay on top of their customers and connected to them in a streamline process to improve the profitability and also their relationship with the customers, suppliers and everything related to the business. This system aims to enhance efficiency of real estate agents and minimizing margin of error that they experience during their work. It also provide a detailed marketing strategy for units based on reports generated by the marketer of the market analysis. Furthermore the system generate to the admin reports of the agents performance and helps the admins to keep track the	

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Mayar Akmal Moustafa	Logical Design of Asthma Attack Sensor System	SDG 3. Good Health and Well- Being	overall performance of the whole agency. Additionally, the system uses the internet of things (IOT) technology, specifically the machine learning technology which will automatically record the agents calls and analyse them to see if there are any mistakes and inform the agents with them. This project is about Asthma Attack Sensor System, designed to help people cope with asthma. It uses different sensors to detect asthma triggers. The system will be linked with a wearable device which converts sensor data into an interactive website and application that enables users to identify and respond to asthma symptoms.  The Device is a wearable patch that is comfortable, versatile, and waterproof. It can be worn and attached to the upper part of the chest, so no one else has to know because it's hidden under your clothes. The wearable patch is completely self-contained and suits the children who suffer from asthma and doesn't have a smartphone. The wearable patch has a feature called Symptom Detection, which can detect symptoms like heart rate, coughing, breathing rate, wheezing, temperature, and activity level. It sends out vibration alerts if symptoms escalate. Patient can use the website or the application to order asthma medicines or inhalers, book doctor appointments, forward their health data to the doctors in order to get medical consultation, and to receive a reminder of his medication times. The application system allows patient to see all his symptom levels which provides better insights into his condition and peace of mind.	
Ahmad Yamak	Booking Application	SDG 8. Decent	Every homeowner has some chores around their property that they need to	

for Homeowne rs and Handymen  C Growth  C Growth  For Homeowne And Beconomi C Growth  C G Growth  C G Growth  C G G G G G G G G G G G G G G G G G G	Names of students in projects	Title of project	Title of SDG related to project	Abstract of the Project	Images of Students
Industry, Innovati on and Infrastru cture  to and Infrastru cture  to these tasks for them. Nowadays, homeowners face a lot of obstacles while trying to find a qualified handyman to do the required tasks. First, most homeowners may not have the time to search for a handyman in their local market due to their daily jobs or their late nights at work. Second, there are no general guidelines and rules on the fees and prices of all handymen services in the local market. Finally, many unqualified handymen can be found in the local market. As a result, this proposed project is intended to solve all of these problems by providing smart and modern solutions through the various features and systems of the application. This project is a Booking Application for Homeowners and Handymen built on modern and advanced technologies. The proposed application will connect homeowners with their desired handymen according to their profession fields. This application is intended to be a one-stop solution to quickly, professionally and conveniently sort all the needs of homeowners, ranging from civil construction to maintenance work. In addition, it will help all handymen to easily find job offers posted by homeowners. Homeowners will be able to conveniently book verified and		Homeowne rs and	and Economi c Growth SDG9. Industry, Innovati on and Infrastru	tasks to large maintenance tasks. If homeowners have the necessary knowledge and time, they will be able to do these tasks by their own. However, if these tasks weren't done properly, homeowners may face further issues in the future. Therefore, homeowners tend to hire professional handyman in their local market to properly and professionally do these tasks for them. Nowadays, homeowners face a lot of obstacles while trying to find a qualified handyman to do the required tasks. First, most homeowners may not have the time to search for a handyman in their local market due to their daily jobs or their late nights at work. Second, there are no general guidelines and rules on the fees and prices of all handymen services in the local market. Finally, many unqualified handymen can be found in the local market. As a result, this proposed project is intended to solve all of these problems by providing smart and modern solutions through the various features and systems of the application. This project is a Booking Application for Homeowners and Handymen built on modern and advanced technologies. The proposed application will connect homeowners with their desired handymen according to their profession fields. This application is intended to be a one-stop solution to quickly, professionally and conveniently sort all the needs of homeowners, ranging from civil construction to maintenance work. In addition, it will help all handymen to easily find job offers posted by homeowners. Homeowners will be able	

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Seif Amr El-Mairgi	Logical Design of digitalizing governmen tal paper for conscriptio n and civil registry	SDG 9. Industry, Innovati on and Infrastru cture	such as plumbers, electricians, carpenters, constructors and more. Since the requirements, major constraints and assumptions of the application are well known and clearly defined, the waterfall model will be used in the development of this application since it is best suited to the nature of the application as well as having all the necessary procedures and requirements well documented in advance. Finally, multiple UML diagrams, such as use case, class, sequence and activity diagrams, will be used to illustrate the behavior and structure of the application as well as providing a concise and clear way to helps all teams, programmers and non-programmers, to properly communicate with each other.  D-Egy-Tal: The first part of the egovernment system application to provide immediate help for users who encounter a situation such as being called by the military, as the method of the military is by either sending a post mail or by forcing the citizen to go by themselves to any of the bases to know when they will be called for the medical examination. With the help of the system application, the user which is the citizen can use the application by entering their national ID to know when and where they can do the examination, in addition, knowing which papers are needed and where to get it in order to turn it to the military for their military service.  The second part of the e-government system application will be used by the military itself, as the military employees who are making sure that the citizen is fit or not for the military service by accessing the database for the civil registry to see if the citizen has all the papers needed and if	

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Ismail Mohamed	Logical Design of online maintenanc e system	SDG 8. Decent Work and Economi c Growth SDG 9. Industry, Innovati on and Infrastru cture	it is all correct and nothing is missing or forged.  The project will also include the IOT technology which will be implemented as RFID system which the citizen can acquire a specific card which can be used with the RFID to scan it to access and verify their identity such as the same idea in universities which the students uses their identification card which acquired from the university to enter the university.  Changing the official government paper from being physical material to digitalized version will make it easier and faster for the government to finish all their needed papers and work, in addition, it'll be the first step for the digital transformation which is needed for Egypt.  An online maintenance system is an application that helps the users to repair or maintain their items or electronics by requesting workers like plumbers, carpenters, home appliances repairer and electricians. Users can request for the listed workers at any time, then the worker will arrive according to the given location with his equipment in order to fix what the user ordered him to fix. All of the users will get the same benefit as it will be an application for the common people. Every worker has his own rating so the user can know what he will be dealing with, the worker with high complains and low rating will have to pay a partition, or will be fired. The more the user makes requests from the application the more he will get discounts and promo codes.  The system will benefit all the people that do not have any maintenance workshops nearby their places, as in some governorates the people who need the maintenance are forced to go the worker	

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			place to drive them to do his job, after that	
			they will drive him back, so the system will save time and effort for the user,	
			while increasing the effectiveness and the	
			efficiency of the workers. It will end the	
			tips and the financial abuse from the	
			workers, also the worker will be forced do	
			his job with his full effort. It helps the	
			worker to increase opportunities for	
			bonuses and salary raises. The project will	
			include an AI machine learning	
			technology; it will work as a chatbot that	
			displays an instant message after any	
			message or inquiry.	

#### **Marketing Department**

#### <u>Fall 2021</u>

Names of students in	Title of project	Title of SDG related to	Abstract of the Project	Images of Students
projects		project		
in	The Impact of Virtual Reality in the National Museum of Egyptian Civilization (NMEC) on Visitors' Attitudes towards the Museum	related to	According to Ilhan and Celtek (2016), nowadays, technology is no longer considered as a subsidiary tool, however, it's becoming something necessary and required in our everyday routine; as it plays an important role people lives enhancement through faster, effective, efficient, and accessible processes (Han et al., 2019). Technological developments positively affect tourists' experience in a museum, which results in affecting their attitude as well. That's the reason why advanced technologies have been developed in order to overcome that problem; augmented and virtual realities reality they are (Vermeeren et al., 2018). Of the various up and coming technologies, those considered the most altering and revolutionary are virtual and augmented reality technologies. They stimulate the senses of the user by the use of images generated by computers. These sense stimulating images are meant to engross the user's mind in the experience.	Students
			During that time, our minds accept virtual or augmented reality as another real versions of real life (Nayyar et al., 2018).	
			During the past few decades, unstable environments and increased levels of competition have forced cultural heritage sites and tourism destinations to consider adopting technologies in order to enhance their visitors' experiences. These	
			technologies include social media, smart	

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			phones, interactive websites, and mobile applications, among others. But more	
			recently, the technologies increased to encompass virtual and augmented reality	
			applications (Errichiello et al 2019). In	
			regards to tourist destinations, galleries,	
			museums, and other cultural heritage	
			organizations have exhausted the search	
			of various ways of exploiting these	
			technologies' potential so that they could	
			enhance their tourists' experience before,	
			during, and after their visit. Accordingly,	
			virtual reality applications have started	
			outstretching in the industry of hospitality and tourism and are assumed to	
			revolutionize the way tourists experience cultural tourism sites by offering them	
			diversified experiences and added-value	
			propositions (Errichiello et al., 2019).	
			Today, the numerous applications of	
			augmented reality are being utilized in the	
			field of tourism. These applications help	
			recreate historical artifacts that are found	
			in museums digitally. It is expected that	
			several tourism organizations will benefit	
			from these applications by gain	
			competitive advantage in contrast to other	
			tourism enterprises and satisfying their	
			visitors (ÖZKUL & Kumlu, 2019). In this	
			research, the effect of implementing	
			Virtual Reality in museums, specifically	
			the National Museum of Egyptian	
			Civilization (NMEC), on visitors'	
			experiences and attitudes towards the	
			museum will be investigated.	