



Faculty of
Computer Science



University
October University for
Modern Sciences and Arts
Established by Dr. Nawal El Degwi in 1996



**UNIVERSITY of
GREENWICH**

ACHIEVEMENTS YEAR BOOK

2016/2017

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01

DEAN'S WORD

DEAN'S WORD

I'm so impressed by the ideas behind the graduation projects of this year 2016. The results - achieved during a long year of work, reflects the skills and innovation capability of our senior students. I believe that someday the majority of our new graduates could become great nouns in the Information Technology era worldwide.

I cross my fingers to all of you - our CS graduates; wishing you all a very brilliant future

I want to address a word to our CS candidates; you are one leg apart from starting your dream future. Let nothing distract you from deeply joining our Computer Science family. In the Faculty of Computer Science, instructors and students enjoy the friendly, productive, and cooperative atmosphere of work with a family spirit.

We are there to help you build your dream career in IT, no matter how much effort it requires.

Prof. Dr. Ali El-Bastawissy

Dean, Faculty of Computer Science



Prof. Dr. Ali El-Bastawissy

Dean, Faculty of
Computer Science

02 EXTERNAL EXAMINER'S
TESTEMONIAL

Prof. John Mellor

Higher Education Lecturer in Business at
Leeds City College



The Faculty of CS at MSA University and Programme Team communicated effectively with me throughout the year, and I saw evidence of internal moderation in the assessment process and confirm it was used effectively and consistently.

I had the opportunity to see presentations by the 'final year students. The project work was well executed, well presented, and the documentation showed a marked improvement with good examples of background research that was well referenced. The students follow a traditional computing curriculum that retains some key fundamentals of programming that have been lost from some UK courses. This enabled them to tackle quite advanced computing projects where at least one was of publishable quality.

There has been continuous improvement in the procedures resulting in better recording of the assessment process, clearer evidence of moderation and second marking and provision of statistics.

02 FACULTY PARTNERS

- **Oracle Academy Institution membership**



Students are able to increase their productivity by using Oracle's Accreditation Program - a new framework to accelerate your knowledge of Oracle products and Support framework.

- **EMC Academic Alliance Professors trainings – MSA**



EMC sponsors and conducts training courses in top technology domains for students and staff, such as:

- Information Storage and Management (ISM)
- Cloud Infrastructure and Services (CIS)
- Some of our esteemed staff members were successfully engaged in the above courses.

- **Microsoft Virtual Academy**



Microsoft is committed to give our students the most robust online learning experience available. With S2B and MVA our students can confidently build the in demand skills for today's tech jobs and stand out from the crowd.

- **Juniper Networks Academic Alliance**



Juniper Networks has the objective to support MSA Faculty of Computer science in empowering students with network industry relevant skills and improved employment opportunities. Their first boot camp will be conducted at MSA premises in 24-26 September 2017

- **Sumerge Software Solutions**



By participating in Sumerge Summer Training Program our students will be able to kick start their career by learning and working first hand with the following state of the art technologies in a professional environment for customer in Egypt and abroad.

04 Research publication

Prof.Dr. Ali El-Bastawissy

Abdelrahman A, El-Bastawissy AH, Kholief M. [Inconsistency Resolution In The Virtual Database Environment Using Fuzzy Logic](#). International Journal of New Computer Architectures and their Applications (IJNCAA). 2016;6(2):65-72.

Abdel-Moneim MS, El-Bastawissy AH, Kholief MH. [Data Quality Based Data Integration Approach](#). World of Computer Science and Information Technology Journal (WCSIT). 2015;5:155–164.

Wanas GS, EL-BASTAWISSY ALIH, Kadry MA. [Decreasing ERP Implementation Failure in Egypt](#). In: The 25th International Conference on Computer Theory and Applications (ICCTA 2015) . The 25th International Conference on Computer Theory and Applications (ICCTA 2015) . Alexandria, Egypt; 2015. p.

MS Abdel-Moneim, Ali H. El-Bastawissy MHK. [Quality Driven Approach for Data Integration Systems](#). In: The 7th International Conference on Information Technology Amman-Jordan. The 7th International Conference on Information Technology Amman-Jordan. <http://icit.zuj.edu.jo/ICIT15/>; 2015. p. 409–420.

El-bastawissy IHAAAMA. [Runtime Deduction of Case ID for Unlabeled Business Process Execution Events](#). In: The 12th ACS/IEEE International Conference on Computer Systems and Applications. The 12th ACS/IEEE International Conference on Computer Systems and Applications. ; 2015.

El-Hefnawy MRM, El-Bastawissy AH, Kadry MA. [Benchmarking the Higher Education Institutions in Egypt using Composite Index Model](#). (IJACSA) International Journal of Advanced Computer Science and Applications; (IJACSA) International Journal of Advanced Computer Science and Applications. 2014:92–103.

Rahman MMHMA, El-Bastawissy AH, Hegazi O. [Managing Probabilistic Duplicates in Databases](#). 2014.

Abd-El Azim NA, El Bastawissy AH. [A New Paradigm for Transactions Management in Cloud Computing](#). Data Mining and Knowledge Engineering. 2014;6:117–123.

El-Hefnawy MRM, El-Bastawissy AH, Kadry MA. [Towards a Composite index for measuring the higher education institutions in Egypt](#). In: Science and Information Conference (SAI), 2014. Science and Information Conference (SAI), 2014. IEEE; 2014. p. 31–41.

Saddad E, El-Bastawissy A, Hegazy O, Hazman M. [Towards an alternative Data Warehouses Architecture](#). 2014.

Abd-El Azim NA, El Bastawissy AH. [Transactions Management in Cloud Computing](#). Egyptian Computer Science Journal. 2014;38.

Hafez MM, EL-BASTAWISSY ALIH, Hegazy OM. [Using Information Gain in Data Fusion and Ranking](#). Recent Advances in Computer Engineering, Communications and Information Technology. 2014:157–165.

Dr. Hesham Mansour

HA Mansour. Proceedings of the International Conference on Data Mining (DMIN), 2016:168

HA Mansour. Proceedings of the International Conference on Data Mining (DMIN), 2016:153

HA Mansour, D Duchamp, CA Krapp. Proceedings of the International Conference on Data Mining (DMIN), 2015: 107

HA Mansour. A Process-Centered Environment for Modeling, Enacting, and Managing the Knowledge Discovery Processes. PhD. dissertation, Stevens Institute of Technology, Hoboken, N. J., 2015

Dr. Nermin Kamal Negied

Pedestrians' detection in thermal bands—Critical survey. Nermin K Negied, Elsayed E Hemayed, Magda B Fayek, Journal of Electrical Systems and Information Technology, 2015.

Human Biometrics: Moving Towards Thermal Imaging, Nermin K Negied, International Journal of Recent Technology and Engineering (IJRTE), 2014.

HEARD: An automatic human EAR detection technique, Nermin Kamal Abdel Wahab, Elsayed Essa Hemayed, Magda Bahaa Fayek, International Conference on Engineering and Technology (ICET), 2012.

Expert System for Wheat Yields Protection in Egypt (ESWYP), International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2014.

HSBS: A Human's Heat Signature and Background Subtraction Hybrid Approach for Crowd Counting and Analysis, Nermin Kamal Abdel-Wahab Negied, Elsayed B Hemayed, Magda Fayek, International journal of pattern recognition and artificial intelligence, 2016.

Data Dimensionality Reduction by Genetic Algorithms 2 – for Data Mining, Nermin K. Negied, The International Conference of Engineering and Applied Science (ICEAS), 2012.

Data Dimensionality Reduction Using Genetic Algorithms, Nermin K. Negied, The International Conference on New Paradigms Electronics & Information Technologies (PEIT), 2011.

Human Ear, the recently proposed biometric – A survey, N. K. Negied and E E Hemayed, The International Conference on New Paradigms Electronics & Information Technologies (PEIT), 2011.

Investigation of GA-based face detection & recognition., N. K. Negied, The International Conference on New Paradigms Electronics & Information Technologies (PEIT), 2011.

Dr. Ehab Emam

A Framework for Anonymous Communication in MANETs based on Access Control and Authenticated Key Agreement - INNOV 2016 - The Fifth International Conference on Communications, Computation, Networks and Technologies, Rome, Italy.

An Integrated Security Framework for Access Control and Address Autoconfiguration for MANETs - WMNC 2015 – The 8th IFIP Wireless and Mobile Networking Conference, Munich, Germany.

An Integrated Security Framework for Mobile Ad-hoc Networks (To appear)

“DIGITAL TIMESTAMPING: A WEB-BASED ANONYMOUS DISTRIBUTED SOLUTION”. Published at International Journal of Intelligence Computing and Information Science, Vol.6, No. 1, January 2006.

Eng. Ahmed Gouda

Gouda A, Fakhr WM, Badr A. [Automatic FOREX Market Trading based on Technical Analysis](#). COMPUTING AND INFORMATION SYSTEMS JOURNAL. 2011;15.

Gouda A, Alu M, Nasr E. [Requirements Engineering Techniques in Security of Embedded Systems: A Systematic Review](#). 2015.

Gouda A, Hefny H, Badr A. [Time Series Forecasting using Artificial Neural Networks Methodologies](#). 2015.

Eng. Nour Zawawi

El-Zawawi N, Hamdy M, El-Gohary R, F.Tolba M. [A large Dataset Enhanced Watermarking Service for Cloud Environments](#). The Second International Conference on Advanced Machine Learning Technologies and Applications. 2014.

El-Zawawi N, Hamdy M, El-Gohary R, F.Tolba M. [A Database Watermarking Service with a Trusted Authority Architecture for Cloud Environment](#). International Journal of Computer Applications. 2013;69(13):1-9.

Zawawi N, Hamdy M, El-Gohary R, F.Tolba M. [Security Issues on Cloud Data Services](#). In: Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations. Vol. 70. Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations. Springer; 2014.

Zawawi N, El-Gohary R, Hamdy M, Tolba MF. [A Novel Watermarking Approach for Data Integrity and Non-repudiation in Rational Databases](#). The First International Conference on Advanced Machine Learning Technologies and Applications (AMLTA). 2012.

Eng. Zeinab Abd El Halim

Halim ZAE, Badr A, Tawfik K. [Major Histocompatibility Complex Class II Prediction](#). 2011:1-7.

Eng. Sarah Motie

GERAM: An Agent-Based Model of Deregulated Electricity Retail Markets

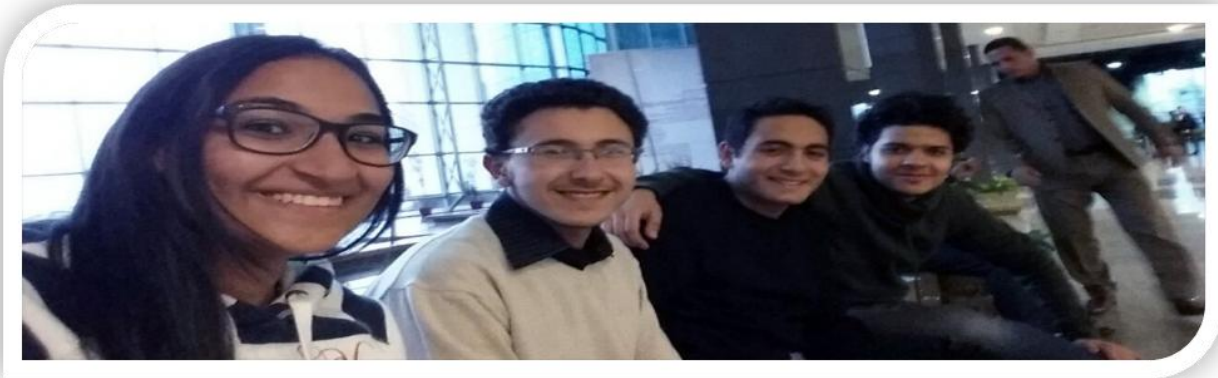
Authors: Sarah Motie Amin, Mohammed A. El-Beltagy, Mohamed H. Rasmy

Proceedings of the 2nd International Multi-conference on Complexity, Informatics and Cybernetics:
IMCIC 2011, Florida, USA

05

AWARDS AND PRIZES

Computer Science Is ranked within the top 5 in Smarter Egypt IBM Hackathon



IBM Egypt has organized for a 4-day Hackathon during November 2014. A Hackathon is an event in which computer programmers collaborate intensively on software projects.

The IBM Egypt Hackathon was intended to address pressing problems on Egypt's national agenda and strategic development plans through innovation and cutting-edge technologies. The Hackathon theme is *Smarter Cities* with focus on energy, water management, and health domains.

The faculty of Computer Science in MSA University participated in the IBM Hackathon Competition 2014 by a team of 4 students;

- **Ahmed Said Elkholy**
- **Maged Mostafa**
- **Mahmoud Mostafa**
- **Marina Samir.**
- **They were supervised by Dr. Doa'a Raafat.**

The CS team's project, concerning Health Insurance analytics, was approved to be useful and helpful for the Health decision makers in Egypt.

06 ACADEMIC EVENTS
ORGANIZED BY THE FAULTY



Guest Lecture

The Corporate Security department at Vodafone Egypt provided a security session for the course Ethical, Social and Legal Professional Computing illustrating how security attacks could negatively impact multinational companies. They will explain 5 techniques used by attackers to hack any system and will show 6 simple steps performed by security analysts to protect their organizations. Different types of security attacks will be discussed and real security cases will be mentioned.



Lecturers

- **Ayman El Saadany**

*Corporate Information Security & Internal Investigation Manager,
Corporate Security, External Affairs, Vodafone Egypt*

- **Nesrine Sameh**

*Information Security & Awareness Senior Specialist, Corporate
Security, External Affairs, Vodafone Egypt*

IMPROVE YOUR CAREER WITH ORACLE

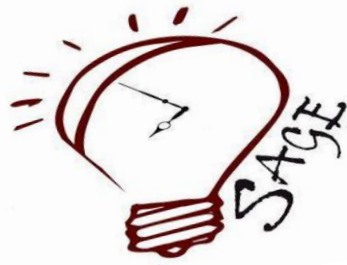


If your wish is to build a rewarding career in technology and experience a better lifestyle, look no further than Oracle. (Why oracle?) Join the global team that's shaping the future and helping our customers add value by eliminating complexity and simplifying IT.

(Oracle qualification and jobs). Training is linked to the labor market ... Therefore, specialized training courses on the most important information technology training is provided so that selected from the best information technology consultants with major Egyptian companies to be added to these courses of practical experience which is our trademark .they also, provide a different varieties of jobs and certifications (Junior and Senior

Speaker:

- **Eng. Amr Abdel Rahman**
Executive Manager.
- **Eng. Osama Soliman**
Oracle technical consultant.
- **Mr. Hany Abdullah**
Oracle Training Consultant.
- **Mr. Mohammed Ezzat**
Oracle Training Consultant



Here Are Events That Have Been Held By The Student Activity Club “**SAGE**” Which Held By Students Under Supervision Of Eng.Shereen Elfeky .



SAGE is a non-profitable club constructed in the faculty of computer science with the potential of recruiting students from other faculties.

SAGE develops both the soft skills and the hard skills of the MSAians to be legit for benefiting the society and to fulfill the gap between the graduates' knowledge and the market needs.



A Glimpse On Career Path

This Seminar is **a chance to explore the career map** touching all fields of computer science , and To learn About Nowadays **Market Technologies**



The host speaker was One Of Computer Science Graduates **Eng.Ahmed El Sayed** from **Sumerge company**



The 20's .. Are You Prepared !



The 20's.. are you prepare! is soft skills Workshop for 3 hours it was about time management , Emotional intelligence and how we can use them in our daily life , it was held by two of the best life coaching Eng.Hesham Brakat and Mr.Mahmoud Abdelrazek



Computer Science Orientation Day



Orientation day is welcoming day for new comers for the new semester this day is for make awareness for the new comer students with the faculty system and subjects and staff



JAVA & More

Java event is mini java course for both levels orientation level and advanced level



 SAGE

- Introduction to Java
- Object Oriented Programming with Java
- And More

Starting from 18/4 to 30/4
Saturday 2:00 - 3:30 Pm
Thursday 9:30 - 11:00 Am
Room D221

ROOM D551
Thursday 9:30 - 11:00 Am
Saturday 2:00 - 3:30 Pm
Sunday 18/4 to 30/4

This Mini Course Helped Students to cope up with the new tools of java for the both levels .





Entrepreneur...Suit Up For Your Future Career !!

As a part of MSA UNIVERSITY vision to encourage entrepreneurial spirit and raise the awareness for the importance of self development in Egyptian society, COMPUTER SCIENCE faculty organized an event entitled "ENTREPRENEUR, suit up your future".




The Faculty of Computer Science
MSA University

ENTREPRENEUR

"Suit Up Your Future Career"

Speakers |



Mr. Khaled Rikaby:
Marketing and Self-Capabilities Building Coach



Eng. Abdelrahman Mohamed:
Business Development Manager



Mr. Hossam Heikal: Someone

Audience |

Primary audience are senior students from Computer Science, Engineering, and Management
All students are welcome

Tentative Agenda

| | |
|----------------------|--|
| 08:00 – 09:00 | Registration |
| 09:00 – 10:15 | Eng. Abdelrahman Mohamed «Make or Break» |
| 10:15 – 10:30 | Break |
| 10:30 – 11:45 | Mr. Khaled Rikaby «Karakeeb» |
| 11:45 – 12:00 | Break |
| 12:00 – 02:00 | Mr. Hossam Heikal «The Way You Deal With ...» |

Date and Venue
Monday 22nd May, 2017
8:00 am to 2:00 pm
SSB Cinema Hall

EVENT ORGANIZER
Shereen El Feky

Entrepreneur...Suit Up For Your Future Career !!



- The event was honored by the attendance of Prof. Khairi Abdelhamid "president of MSA University" and Prof. Ali Bastaweesy "Dean of CS Faculty".
- The event attracted a large number of students from many faculties as well.
- Speakers shared with the students their experiences in business development and how to start up their own ventures and how to overcome hardships in business and life.

07 Staff promotions and accomplishments

Masters and PhD

| Name | Degree | Specialization | Promotion Date | Place | Year |
|--------------------------------|----------------|---------------------|----------------|----------------------|------|
| Nermin Kamal Negied | Lecturer | Computer Eng. | 9/29/2016 | Cairo University | 2016 |
| Ehab Emam Zakaria | Lecturer | Info. Technology | 1/1/2017 | Cairo University | 2017 |
| Samar Adel Hassan | Asst. Lecturer | Computer Science | 3/5/2014 | Middlesex | 2014 |
| Noha Ahmad Saad El-Deen | Asst. Lecturer | Computer Science | 8/5/2015 | Cairo University | 2015 |
| Noor Saad Taher | Asst. Lecturer | Information Systems | 3/15/2015 | Ain Shams University | 2015 |
| Maria Fayez Haleem | Asst. Lecturer | Information Systems | 11/16/2016 | Cairo University | 2016 |
| Yasmeen Eid Mahmoud | Asst. Lecturer | Information Systems | 11/16/2016 | Cairo University | 2016 |

Postgraduate Certificate in Higher Education



The Postgraduate Certificate in Higher Education (PGCHE), alternatively called the Postgraduate Certificate in Academic Practice (PGCAP), is a British teaching qualification for university lecturers and similar professionals. The PGCHE is designed to equip holders with the skills needed to provide high-quality teaching and learning. PGCHE courses are usually closely aligned with the Higher Education Academy's Professional Standards Framework (UKPSF), with successful completion of an HEA-accredited postgraduate certificate leading to formal professional recognition as an HEA fellow (FHEA).

Dr. Soha Safwat from faculty of Computer Sciences acquired the PGCHE from University of Greenwich (UoG).

08

International Courses

International Courses

Our students have the opportunity to online attend international course with certificate for free in collaboration with NLA (Next Technology Leaders) organization.

CS Faculty supports students to build career technical skills for their next high-tech business opportunity. Benefit from these certificates to empower your advanced technology development skills that would empower your business to be a more competitive employee.

Our students and Graduates can register and access top online courses that cover modern ICT technology domains. The courses are offered by prestigious Universities in collaboration with industry leaders, and are available through top online learning platforms like Coursera, edX, and Udacity. This initiative offers you a grant to develop your technical skills through these learning tracks:

The Coursera logo is positioned vertically on the right side of the page. It consists of the word "Coursera" in a bold, blue, sans-serif font, rotated 90 degrees counter-clockwise.

Provider: Coursera

1. Agile Development Specialization
2. Big Data Specialization
3. Cybersecurity Specialization
4. Data Science Specialization
5. Data Structures And Algorithms Specialization
6. Entrepreneurship Specialization
7. Game Design And Development Specialization
8. Internet Of Things (IoT) Specialization
9. Graphic Design Specialization



Provider: Udacity

1. Agile Development Specialization
2. Android Basics Nanodegree
3. Front-End Web Developer Nanodegree
4. Full Stack Web Developer Nanodegree
5. VR Developer Nanodegree



Provider: edX

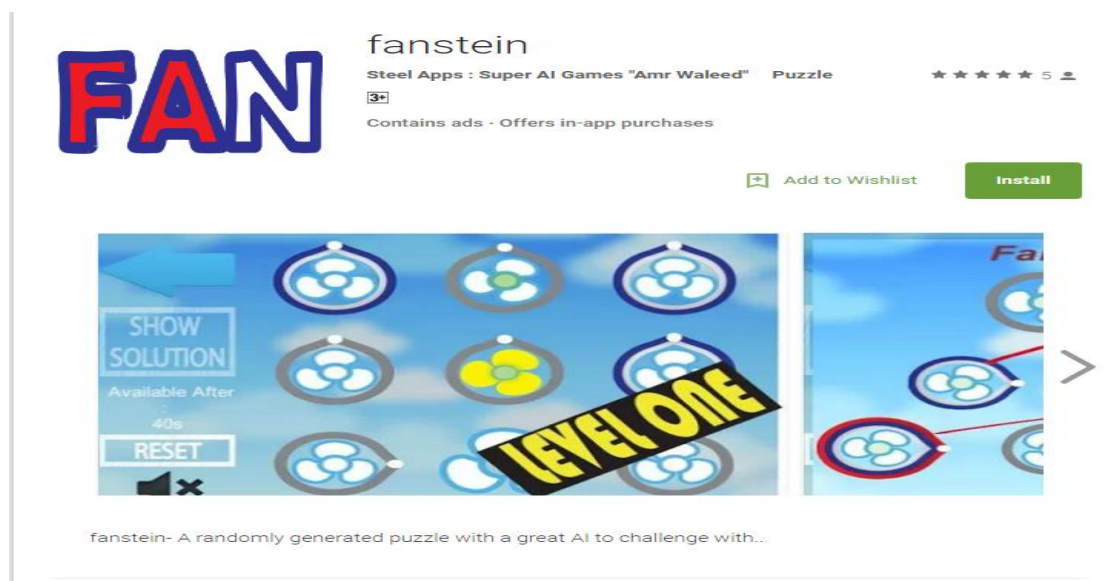
1. Embedded Systems
2. Data Analysis For Your Business XSeries
3. HTML5 From W3C XSeries
4. Agile Development Using Ruby On Rails XSeries

09

Students' In
Market Projects

MSA computer science faculty has aided me with the knowledge and experience through CS courses and labs to develop apps for google playstore.

Amro Walid Muhammad Khairy

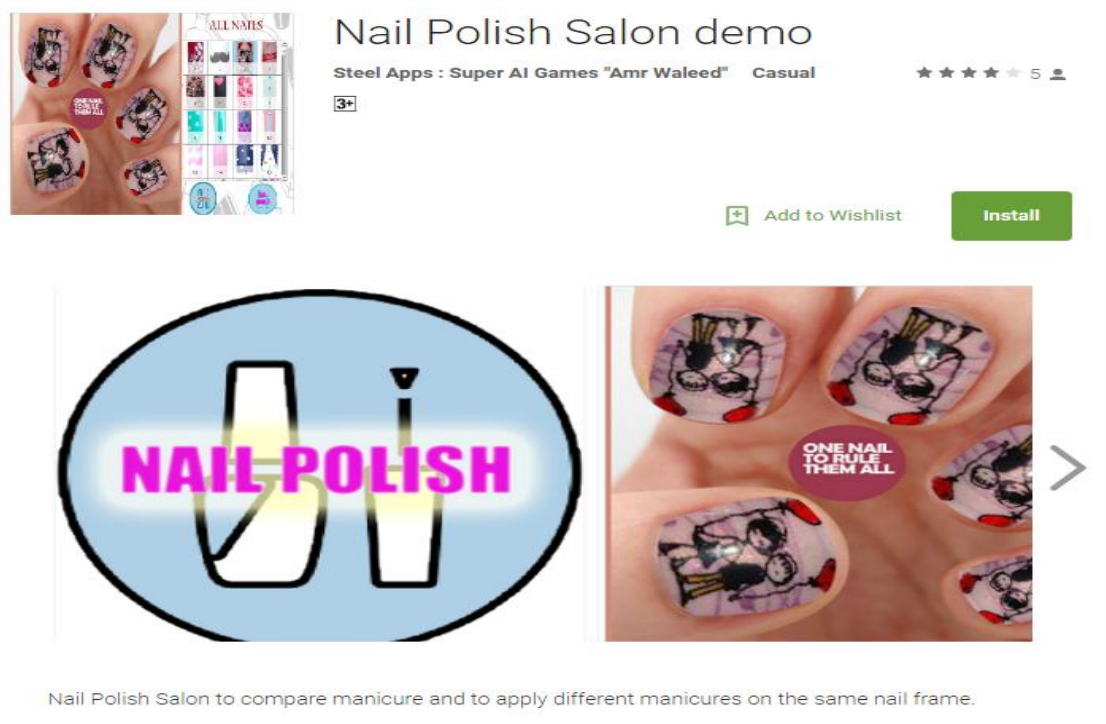


FAN fanstein
Steel Apps : Super AI Games "Amr Waleed" Puzzle ★★★★★ 5
3+ Contains ads - Offers in-app purchases
Add to Wishlist Install

SHOW SOLUTION Available After 40s RESET

LEVEL ONE

fanstein- A randomly generated puzzle with a great AI to challenge with...



Nail Polish Salon demo
Steel Apps : Super AI Games "Amr Waleed" Casual ★★★★★ 5
3+ Add to Wishlist Install

NAIL POLISH

ONE NAIL TO RULE THEM ALL

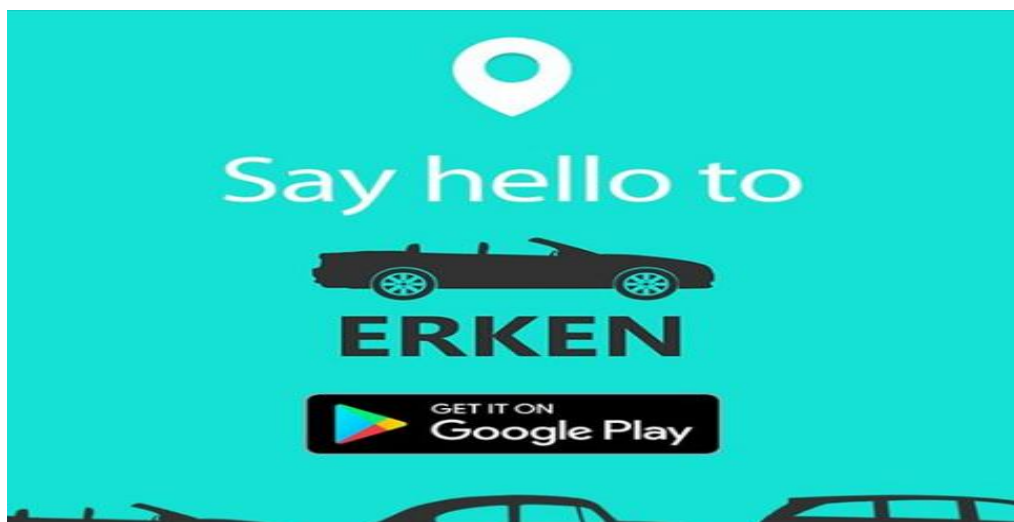
Nail Polish Salon to compare manicure and to apply different manicures on the same nail frame.

Ibrahim Farouk and Ahmed Diaa

Erken is an app that helps you find the nearest parking spot or garage.

Using our app people can help each other in finding parking spots and garages. Users can add an empty spot, that they just left or a public garage they found.

When a spot is added a 15 minutes countdown starts until the spot gets removed from the app. Garages are always available unless they get reported by you.





University
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Established by Dr. Nawal El Degwi in 1996

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with Wahat Road, 6th October
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