



**ARAB ACADEMY FOR SCIENCE, TECHNOLOGY
AND MARITIME TRANSPORT**

College of Computing and Information Technology

2011 / 2012 Graduation Projects

Project Title: Restaurant Ordering System

**Project Examiners: Professor: Alaa Abdel Rehim, Professor: Hany Mahdy,
Professor: Mohamed Abo Rezka, Professor: Ahmed Sharaf**

Project Professor: Dr: Mohamed Bakr

Project Students:

ID	Name
8103215	Norhan Khaled Basiouny
8104146	Walid Abo Bakr Mahmoud
8103322	Mohamed Mostafa Abdel Azim
8104273	Hazem Hossam Sedik Zaky

Abstract:

3lsari3 is one of the technology applications that is widely spreading nowadays, also known as virtual or electronic menu. Basically, it is about make order in a restaurant using your own mobile phone . In our project we constructed an Android OS based control software for the ordering system, through which the user can access the menu of the restaurant or café and make their own order , where the customer send a request to the server then automatically displayed at the staff monitor.



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2011 / 2012 Graduation Projects

Project Title: Space Mission Simulator

Project Examiners: Professor: Ayman El Desouky, Professor: Mohamed Abo El Nasr, Professor: Atef Ghalwash, Professor: Nashaat El Khamisy

Project Professor: Ibrahim El Imam

Project Students:

ID	Name
8103704	Ashraf Mohamed Abdel satar
8103421	Mayada Mahmoud Shaaban
8104417	Nada Mahmoud Abdel Gawad
8104359	Ibrahim Samir Kasem

Abstract:

The purpose of this project was to develop a software that simulates space missions. Creating a mission allows you to add facilities in desired locations and add satellites by defining their classical orbital elements, satellites' movement is simulated with a speed that's relative to the earth's. Representation of the simulation can be visualized in 3D and 2D. Facilities can track the moving satellite and generate tracking reports and satellite data. One of its objective is to help orbit mechanics students to increase their knowledge and visualize orbit mechanics.



ARAB ACADEMY FOR SCIENCE, TECHNOLOGY AND MARITIME TRANSPORT

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2011 / 2012 Graduation Projects

Project Title: Designing & Implementation of Forex Platform

Project Examiners: Professor: Wafae El Boughdady, Professor: Yasser El Sounbaty, Professor: Mohamed Belal, Professor: Mahmoud Wahdan

Project Professor: Mostafa Abdel Azim

Project Students:

ID	Name
8104654	Mahmoud Nasr El Dien Mohamed
8103673	Emad El Dien Khaled Fathy
8104293	Ahmed Mahmoud Aly El Sharkawy
8103903	Ahmed Hamdy El Sofy

Abstract:

The foreign exchange market is where currency trading takes place between banks and other official institutions facilitate the buying and selling of foreign currencies.

In the past, currencies were traded on the phone, and banks prefer audio contact between counter parties. But now, the individual trader will have all of his needs satisfied simply by opening an account with an online FOREX broker, and then he can trade individually and online.

Any online FOREX broker company/bank are financial institutions which allow traders to execute their orders electronically using their own trading platform or an independent FOREX trading platform such as MetaTrader4 which have 70% market share.

Our project objectives are creating a FOREX online trading platform that will be used by clients to trade in any FOREX broker company/bank.

FOREX trading platform will offer the users currency charts, overall account details, order placing.

The user will be able to open a demo account with any amount of money he wants to try our trading platform with virtual money before trading with his real money and he could use the same prices and same charts as in real account exactly.



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2011 / 2012 Graduation Projects

Project Title: Mobile Based Controller System

**Project Examiners: Professor: Alaa Abdel Rehim, Professor: Hany Mahdy,
Professor: Mohamed Abo Rezka, Professor: Ahmed Sharaf**

Project Professor: Abdel Fatah Hegazy

Project Students:

ID	Name
8103611	Shady Wagih Mohamed
8103497	Mohamed Abdel Karim Hassan
8103630	Mazem Mohamed Saied El Gammal
8104366	Ali Hammam Abdallah
8103784	Mohamed Salah Mortada
8104192	Sondos Ahmed Mohamed

Abstract:

This project deals with the design & development of a theft control system for an automobile, which is being used to prevent/control the theft of a car. The developed system makes use of an embedded system based on Global System for Mobile communication (GSM) technology. The designed & developed system is installed in the car. A car tracking system combines the installation of an electronic device in a car, or fleet of cars, with purpose-designed computer software to enable the owner or a third party to track the vehicle's location, collecting data in the process. An interfacing mobile is also connected to the microcontroller, which is in turn, connected to the engine. Once, the car is being stolen, the information is being used by the car owner for further processing. The information is passed onto the central processing insurance system which is in the form of the (SMS), the microcontroller unit reads the (SMS) and sends it to the Global Positioning System (GPS) module and using the triangulation method, GPS module feeds the exact location in the form of latitude and longitude to the user's mobile. By reading the signals received by the mobile, one can control the ignition of the engine; say to lock it or to stop the engine immediately. The main concept in this design is introducing the mobile communication into an embedded system. The designed unit is very simple & low cost. The entire designed unit is on a single chip. Now you can remote start or lock and unlock your car just by pushing a button on your Android with this add-on Smart Start Module.



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2011 / 2012 Graduation Projects

Project Title: E-learning Management system

**Project Examiners: Professor: Ayman El Desouky, Professor: Atef Ghalwash,
Professor: Mohamed Abo El Nasr, Professor: Nashaat El Khamisy, Professor:
Ayman Adel**

Project Professor: professor : Ibrahim El Imam, Dr: Mohamed Bakr

Project Students:

ID	Name
8104873	Abo Bakr Ali Saad El Kanas
5103827	Murad Mohamed Murad
8209339	Ahmed Bassem El Agha
7204078	Bashir Soliman

Abstract:

A Learning Management System (LMS) is traditionally a software solution designed specifically for training departments to improve administration, automation, communication and centralization of information. These departments, whether for-profit training companies or corporate training departments, have many of the same requirements. LMSs range from systems for managing training and educational records, to software for distributing courses over the Internet with features for online collaboration. Corporate training uses LMSs to automate record-keeping and trainee registration. Student self-service (e.g., self-registration on instructor-led training), the provision of on-line learning (e.g., computer-based training, read & understand), on-line assessment, management of Continuous Professional Education (CPE), collaborative learning (e.g., application sharing, discussion threads), and training resource management (e.g., instructors, facilities, equipment), are dimensions to Learning Management Systems. LMSs are used widely in training companies and educational institutes to enhance the process of traditional learning. It converts learning theories into student centered learning. Moreover, by applying learning management system, then we are talking about active learning where student is more participated in the learning process. Besides, building an educational social network, a knowledge base is built as well.

This project is an application that represents a prototype for learning management system's functionality. It was built to adapt with more than one educational institute. Instructors and students are allowed to sign up in the system and play their roles under secure environment. The system attempts to improve the learning process according to our experiments as students.



**ARAB ACADEMY FOR SCIENCE, TECHNOLOGY
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2011 / 2012 Graduation Projects

Project Title: Designing & Implementing E-Voting System

Project Examiners: Professor: Wafae El Boughdady, Professor: Yasser El Sounbaty, Professor: Mohamed Belal, Professor: Mahmoud Wahdan

Project Professor: Mostafa Abdel Azim

Project Students:

ID	Name
6109876	Ahmed Tarek Ahmed Anis
8103311	Walid Medhat Abo Bakr
8103548	Hossam Sherif Mahmoud
9109853	Amr Abdel Kader Ali
8105507	Asmaa Ossman Bougigi
8104957	Nefisa Gambo Ten Mousa

Abstract:

This project presents an electronic voting system for Egypt's parliamentary elections. The country's current means of voting involves the use of paper-based ballots for casting and counting votes. The main goal of the project is to provide electronic means for casting and counting votes by replacing the traditional paper-based ballots with web based forms on which voters can mark and submit their votes.

Although some commentators claim that the pencil-and-paper systems used are still the best method of avoiding vote rigging, recent election problems, and the need for faster, better, cheaper vote counting, have stimulated great interest in managing the election process through the use of electronic voting systems. While computer scientists, for the most part, have been warning of the possible perils of such action, vendors have forged ahead with their products, claiming increased security and reliability.



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2011 / 2012 Graduation Projects

Project Title: Blackberry Event Fans(BEF)

**Project Examiners: Professor: Khaled Mahar, Professor: Ossama Ismail,
Professor: Ali Fahmy, Professor: Ossama Badawy**

Project Professor: Dr: Riham Hassan

Project Students:

ID	Name
8103001	Loay Ali Mohamed Shawky
8103760	Amin Ali Amin
8103964	Mahmoud Ezzat Mohamed
8104905	Hussin HassanHussin
9109890	Mahmoud Abdel Aziz Shakwir

Abstract:

The project's goal is to automate the traditional web surfing process searching for events , news and weather forecast. It's accessible by a mobile device. The communication between the devices is through wireless internet or mobile internet connection. The general process includes three parties, first is the website which responsible for registration and downloading the program which is installed on the mobile device. In order for the client to use our mobile application, the client has to register on the website and enter his data which is stored on the Database to authenticate the login process later on. After registration, the client will be able to download the application on his mobile device. The second part is the client side (GUI) which is a friendly user interface which the user can easily interact with. The third part is the server side which contains two subparts the first subpart is the data extraction classes which use several seeds from the web using automated methods to extract the information used the application, the second subpart is the database deployed on the server and the classes that put the extracted data on the database and send the data to the mobile device through internet connection.



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2011 / 2012 Graduation Projects

Project Title: Saydalitak

Project Examiners: Professor; Mohamed Kholaf, Professor: Ayman Adel

Project Professor: Ramadan Moawad

Project Students:

ID	Name
8103119	Rolla Maher Rebhy
8103944	Amira Mahmoud Kamal
10109126	Mariz Hany Boushra
7103383	Ahmed Eissa Hussin
8103246	Eslam Hassan
6104019	JoesiphNabil

Abstract:

Saydalitak is a web based geographical information system that saves time and effort for any patient or regular user when he tries to search for a specific medicine in his location, Saydalitak system provides the medicine in the nearest pharmacies to his location.

After our interview with the most respected patients and regular users we observed that some patients search for a medicine for more than a day and they also couldn't find it. Saydalitak system provides the medicine for them when they search for it. We also observed that sometimes the patient or regular user couldn't find an alternative medicine with the same effect that he needs. Saydalitak system provides alternative medicines with the same effect of the medicine that they searched for. We observed that some patients and regular users found the medicine with high price. Saydalitak system can provide medicines with better price of medicines for them.



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2011 / 2012 Graduation Projects

Project Title: Aro7 Feen

**Project Examiners: Professor: Khaled Mahar, Professor: Ossama Ismail,
Professor: Ali Fahmy, Professor: Ossama Badawy**

Project Professor: Dr: Riham Hassan

Project Students:

ID	Name
8105060	Ahmed Adel Abdel Fattah
8103716	Khalifa Abdel Aziz Khalifa
8104518	Hossam El Dien Medhat Ali
8104560	Mahmoud Mohamed Abdel Halim El Aidy

Abstract:

Service locating application “commercially named Aro7 Feen” is a mobile APP serves all smart phone users to detect services around them. Its location based application intended to locate services like gas stations, embassies, hotels and governmental services. Also it locates lounges restaurants cafes and spas, etc. . . . This app helps the user to find where to go to do whatever he wants with community support like ratings and recommending places. The application also makes the user able to search by items, details and services offered by these places. Not that only a lot of social activities are included like event organising ,interacting with friends ,suggest places for friends .such an application is considered also a virtual advertisement and marketing area . The application aims to refine the services offered in greater Cairo, create a competition in the market so customers enjoy better quality with convenient prices. Make use of the community using smart phones and help everyone to find the best place that satisfies their needs.

