

Cairo University  
Faculty of Computers and Information  
Computer Science Department  
Graduation Projects 2016



## **Graduation Projects: Academic Year 2016**

### **Computer Science Department**





<b>Project Name</b>	<b>MAK-OCR</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Ahmed Kamal</li> <li>• Ahmed Makram</li> <li>• Khaled Ahmed</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Prof.Ali Fahmy</li> <li>• Dr.Mohamed ELRamly</li> </ul>
<b>Contact</b>	<a href="mailto:a.fahmy@fci-cu.edu.eg">a.fahmy@fci-cu.edu.eg</a> <a href="mailto:m.elramly@fci-cu.edu.eg">m.elramly@fci-cu.edu.eg</a>
<b>Description</b>	Android Arabic Handwriting Calculator application that captures handwritten Arabic equations then performs OCR and calculates equations' output.

<b>Project Name</b>	<b>Mazadna</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Khaled Mahmoud</li> <li>• Hassan Mohamed</li> <li>• Islam Ibraheem</li> <li>• Ahmed Fekry</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Prof.Reem Bahgat</li> </ul>
<b>Contact</b>	<a href="mailto:r.bahgat@fci-cu.edu.eg">r.bahgat@fci-cu.edu.eg</a>
<b>Description</b>	Mazadna is an E-commerce solution that allows users to sell their products via an auction instead of the traditional way of selling and buying. It is also based on social networking where the user can follow the sellers he is interested in to get frequent notifications about their activities.



Project Name	FCI -com mobile application
Team	<ul style="list-style-type: none"> <li>Alaa Mohamed</li> <li>Aya Magdy</li> <li>Asmaa Hassan</li> <li>Ala Hamdy</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Prof.Reem Bahgat</li> </ul>
Contact	<a href="mailto:r.bahgat@fci-cu.edu.eg">r.bahgat@fci-cu.edu.eg</a>
Description	Android application of Faculty of computers and Information E-com. It is an electronic community for FCI members ( students, professors, and TAs)

Project Name	Watch and Rate
Team	<ul style="list-style-type: none"> <li>Hossam Hesham</li> <li>Noha Magdy</li> <li>Heba Elsayed</li> <li>Esraa Ahmed</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Prof.Reem Bahgat</li> <li>Dr.Hanaa Bayoumy</li> </ul>
Contact	<a href="mailto:r.bahgat@fci-cu.edu.eg">r.bahgat@fci-cu.edu.eg</a> <a href="mailto:h.mobarz@fci-cu.edu.eg">h.mobarz@fci-cu.edu.eg</a>
Description	Watch and Rate is a system that helps users to have the best experience in watching movies and rating them. Users help each other by only writing their opinion about a movie. Using natural language processing and sentiment analysis, the system detects the percentage of the movie that makes it good or bad and what are the attributes that are good or bad (story, directing, acting,...).



Project Name	Staff scheduling
Team	<ul style="list-style-type: none"> <li>• Amal Khaled</li> <li>• Alyaa Ali</li> <li>• Habiba Bayoumy</li> <li>• Norhan Abdo</li> <li>• Mohamed Ali</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Prof.Fatma Omara</li> <li>• Dr.Nouh Sabry</li> </ul>
Contact	<a href="mailto:f.omara@fci-cu.edu.eg">f.omara@fci-cu.edu.eg</a> <a href="mailto:nouh.sabry@fci-cu.edu.eg">nouh.sabry@fci-cu.edu.eg</a>
Description	<p>Many organizations face problems in the communication between the organization's staff, these problems may cause huge waste of time, resources or even more. Our application is focused on such problem in university where the communication between students and university staff is essential for learning. So if a student want to book a meeting with doctor or TA , or the doctor want to spread a message - lecture is cancelled for example- all of these communications and much more can be performed by our application. This application is a web/ android application based on the cloud.</p>

Project Name	Digital Tour guide
Team	<ul style="list-style-type: none"> <li>• Abdelrahman Mohamed</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Prof.Amr Badr</li> </ul>
Contact	<a href="mailto:amr.badr@fci-cu.edu.eg">amr.badr@fci-cu.edu.eg</a>
Description	<p>When a tourist enter the museum and is not accompanied by a tour guide our app will be his guide. We will use NFC tags to tag the different statues and our android app would recognize when the tourist approaches certain statues and show him information about it and guide him to the next statue to go.</p>



Project Name	Intelligent to-do list
Team	<ul style="list-style-type: none"> <li>• Esraa Salem</li> <li>• Yasmeen Abdelatef</li> <li>• Samah Khaled</li> <li>• Shimaa Mohamed Hassan</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Prof.Abeer Alkorany</li> </ul>
Contact	<a href="mailto:a.korani@fci-cu.edu.eg">a.korani@fci-cu.edu.eg</a>
Description	<p>This project utilizes social media and recommendation technologies to provide an intelligent To Do List mobile application. The application is able to record the user daily activities, analyze them. In addition to collecting user's Twitter posts to learn the user preferences and provides users with personalized To Do List. Beyond the normal functionalities of a To Do list application, like reminding users with their scheduled activities, this application will recommend other activities and rank to the user based on their location and preferences.</p>

Project Name	Makany
Team	<ul style="list-style-type: none"> <li>• Heba Ahmed</li> <li>• Sara Hany</li> <li>• Mageeda Abaza</li> <li>• Zeyad Mohamed</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Prof.Abeer Alkorany</li> </ul>
Contact	<a href="mailto:a.korani@fci-cu.edu.eg">a.korani@fci-cu.edu.eg</a>
Description	<p>"Makany" is an application that offers you personalized information about the services and places in your district. It also allows neighbors to share items with each other and organize events in their district. Moreover, "Makany" provides a recommendation system to their users based on analyzing the user behavior and inferring his interests. This application provides its users different types of services, according to her/his location, whether he is at home or moving outside his district.</p>



<b>Project Name</b>	<b>Social learning environment</b> علمنى
<b>Team</b>	<ul style="list-style-type: none"> <li>• Esraa Khaled</li> <li>• Hala Mohamed</li> <li>• Laila Saeed</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Prof.Abeer Alkorany</li> </ul>
<b>Contact</b>	<a href="mailto:a.korani@fci-cu.edu.eg">a.korani@fci-cu.edu.eg</a>
<b>Description</b>	<p>This application aims to make the education process and sharing the knowledge more easy than traditional ways. Furthermore, it save the time and effort in searching for some information. Almny is an application that enables its users to access unlimited sources in many sections. The application helps the user to get the information he needs in the form he likes whether articles, videos or tutorials. User wall contain relevant posts and videos that belong to the people she/he follow them.</p>

<b>Project Name</b>	<b>Foundura</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Mohamed AbdElsataar</li> <li>• Mai Yousry</li> <li>• Khaled Adel</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Akram Salah</li> </ul>
<b>Contact</b>	<a href="mailto:akram.salah@fci-cu.edu.eg">akram.salah@fci-cu.edu.eg</a>
<b>Description</b>	<p>Foundura is an android application which connects two kinds of users. First, the users who lost their items and couldn't find it anywhere. Second, the users who found items and don't know for whom they belong or how to find their owners. Therefore, Foundura provides them an easy communication to let them be able to find their lost items and the owners of the found items. Moreover, it provides them search flexibility.</p>



Project Name	Technicians freelancing
Team	<ul style="list-style-type: none"> <li>Ahmed Mohamed Eldeeb</li> <li>Mera Ayman</li> <li>Basma Ahmed</li> <li>Habiba Mohamed</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Dr.Akram Salah</li> </ul>
Contact	<a href="mailto:akram.salah@fci-cu.edu.eg">akram.salah@fci-cu.edu.eg</a>
Description	<p>Our project is to build a system that make easier communication between technicians and clients. It's a Match making application between technicians and clients. The client who wants some service done by specific requirements which he needs and all technicians who have enough experience and qualified to do this job make a bid for this job and suggest their offers, then client can choose the technician that has the best offer from the list and with technician that he wants to make this job and make a review for him to rate his work during the job to be able to know the best technicians in all categories and help other clients that has a relative job.</p>

Project Name	Auto restaurant
Team	<ul style="list-style-type: none"> <li>Shady Shalaby</li> <li>Sherif Mohamed Shokry</li> <li>Sherif Mohamed Abdellatef</li> <li>Noha Ashraf</li> <li>Mereet Ehab</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Dr.Akram Salah</li> </ul>
Contact	<a href="mailto:akram.salah@fci-cu.edu.eg">akram.salah@fci-cu.edu.eg</a>
Description	<p>Our project is an android application that automate the order process inside the restaurant, the customer only deals with the application which provides him with all what he needs when he exists in a restaurant as he can view the restaurant menu by scanning a QR code on the restaurant table, order from the application easily or search the nearby restaurants, also the application can search a specific restaurant according to the restaurant's name or category.</p>



Project Name	Event based social network
Team	<ul style="list-style-type: none"> <li>• Aya Mahmoud Fares</li> <li>• Mohamed Gamal</li> <li>• Enas Hussien</li> <li>• Amr Masood</li> <li>• Amr AbdElaziz</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Dr.Akram Salah</li> </ul>
Contact	<a href="mailto:akram.salah@fci-cu.edu.eg">akram.salah@fci-cu.edu.eg</a>
Description	<p>Evento is an event based social network, It made to reduce the gap between online and offline events. If you are interested in attending any type of events you will find it in Evento, Just select events which you will attend and Evento will set your timetable.</p> <p>It helps social media marketers and events creator to reach their target also.</p>

Project Name	Onshor
Team	<ul style="list-style-type: none"> <li>• Amr Fathallah</li> <li>• Ahmed Mohamed Fahmy</li> <li>• Moamen Saeed</li> <li>• Mohamed Magdy</li> <li>• Mohamed Ashraf</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>• Dr.Mohamed Elramly</li> </ul>
Contact	<a href="mailto:m.elramly@fci-cu.edu.eg">m.elramly@fci-cu.edu.eg</a>
Description	<p>Onshor is the ultimate application for anonymous messaging, it's an endless fun!. No need to register, just install the app and go on messaging with nearby friends.</p> <p>You can share anything anonymously, geolocation-based and instantly.</p>





Project Name	Transportation guide system
Team	<ul style="list-style-type: none"> <li>Ahmed Zaher</li> <li>Ahmed AbdElrheem</li> <li>Shereef Mohamed</li> <li>Mohamed Mahmoud</li> <li>Mariam Mohamed</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Dr.Mohamed Elramly</li> </ul>
Contact	<a href="mailto:m.elramly@fci-cu.edu.eg">m.elramly@fci-cu.edu.eg</a>
Description	Transportation guide system aids user to reach required destination by telling him about routes he could follow and transportation means to ride , accessed through web and mobile application

Project Name	Reviews and recommendations
Team	<ul style="list-style-type: none"> <li>Essam Mohamed</li> <li>Foad Adel</li> <li>Yasser Adel</li> </ul>
Supervisor	<ul style="list-style-type: none"> <li>Dr.Hanaa Bayoumy</li> </ul>
Contact	<a href="mailto:h.mobarz@fci-cu.edu.eg">h.mobarz@fci-cu.edu.eg</a>
Description	Reviews and Recommendation is a software application for restaurants' customers. It allows users to write a review upon a restaurant or check the recommendation of the app on restaurant. The analysis of the reviews and the recommendation is made using NLP.



<b>Project Name</b>	<b>Learning management system</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Essam Ahmed</li> <li>• Amr Ahmed</li> <li>• Omr Hesham</li> <li>• Mostafa Mohamed</li> <li>• Noha Ashraf</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Hanaa Bayoumy</li> </ul>
<b>Contact</b>	<a href="mailto:h.mobarz@fci-cu.edu.eg">h.mobarz@fci-cu.edu.eg</a>
<b>Description</b>	<p>Our unified learning platform is a software application for administration, documentation, tracking, reporting and delivery of courses and training programs using advanced development technologies.</p> <ul style="list-style-type: none"> <li>- Manage learning more effectively.</li> <li>- Combine social and formal learning.</li> <li>- Improve content delivery.</li> </ul>

<b>Project Name</b>	<b>Blind assistant application</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Esraa Ahmed</li> <li>• Samar Mohamed</li> <li>• Mahitab Saadoney</li> <li>• Hala Mohamed</li> <li>• Kareem Mohamed</li> <li>• Haytham Akram</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Khaled Tawfik</li> </ul>
<b>Contact</b>	<a href="mailto:kwassif@fci-cu.edu.eg">kwassif@fci-cu.edu.eg</a>
<b>Description</b>	<p>Android application that helps blind people to walk and navigate street safely. It consists of two parts, the first part is to help him to reach specific destination, he just have to tell the app his destination using voice and it tells him directions to it (eg. turn left, turn right ..etc) .the second part is to tell him if there is an obstacle in front of him and the distance to that obstacle.</p>



<b>Project Name</b>	<b>Face attendance system</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• AbelAziz Sayed</li> <li>• Abdelrahman Mostafa</li> <li>• Ahmed Samir</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Ahmed Shawky</li> </ul>
<b>Contact</b>	<a href="mailto:a.moussa@fci-cu.edu.eg">a.moussa@fci-cu.edu.eg</a>
<b>Description</b>	<p>Face attendance system that aims at recording the attendance of students during the class time. The system uses a camera projected to the students that captures a photo of all students and then our system extracts the students' faces and recognizes them using 4 recognition algorithms.</p>

<b>Project Name</b>	<b>Find my device</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Ibraheem Ali</li> <li>• Ahmed Yehya</li> <li>• Mohamed Foad</li> <li>• Nema Foad</li> <li>• Amany Mohamed</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Ahmed Shawky</li> </ul>
<b>Contact</b>	<a href="mailto:a.moussa@fci-cu.edu.eg">a.moussa@fci-cu.edu.eg</a>
<b>Description</b>	<p>Application that helps people to access their lost or stolen electronic devices like tablet, mobile and laptops, via web app and pre-installed app on these devices.</p>



<b>Project Name</b>	<b>Business card exchanger</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Fady Maher</li> <li>• Fabey Fayez</li> <li>• Karless Nabil</li> <li>• Michel Samoel</li> <li>• Waseem Monier</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Ahmed Shawky</li> </ul>
<b>Contact</b>	<a href="mailto:a.moussa@fci-cu.edu.eg">a.moussa@fci-cu.edu.eg</a>
<b>Description</b>	<p>This project is an android application that can scan business cards by camera during runtime. It also can exchange cards rapidly using NFC and it can make a phone contact with the card information. It can search for a card in the application using a centralized database and add notes to it. It also can add business card information to the application manually.</p>

<b>Project Name</b>	<b>Interactive system for history representation</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Ahmed Saed</li> <li>• Ossama Elshafey</li> <li>• Abdelrahman Gamal</li> <li>• Abdelrahman Anwar</li> <li>• Sabry Ragb</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Emad Nabil</li> </ul>
<b>Contact</b>	<a href="mailto:e.nabil@fci-cu.edu.eg">e.nabil@fci-cu.edu.eg</a>
<b>Description</b>	<p>Wikipedia represents the text, information and history in a static way, just a text that minimizes reader engagement, so we will try to build a generic system that enables users to represent history, in a dynamic way. In our system, the user will be able to create a geographical map of a historical event, add details about that even, and add persons and heroes of an event. Also it will be able add event summary, the system will have a search for key words or sentences. The system will be available through web. One of the case studies will be the biography of the Prophet Muhammad</p>



<b>Project Name</b>	<b>Easy LaTeX Editor</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Rana Mohamed</li> <li>• Rania Sayed</li> <li>• Dina Ashraf</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Mohamed Nassef</li> </ul>
<b>Contact</b>	<a href="mailto:m.nassef@fci-cu.edu.eg">m.nassef@fci-cu.edu.eg</a>
<b>Description</b>	It is an editor that allows researchers to be able to produce high quality PDF documents using LaTeX without having to learn the language itself, as the user will be only using the controls provided in our editor.

<b>Project Name</b>	<b>Exploring the Genomes of Species on Raspberry-Pi Device</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Nour Mohamed</li> <li>• Mariam Foad</li> <li>• Anas Nasooh</li> <li>• Salwa Ahmed</li> <li>• Dalia Maher</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Dr.Mohamed Nassef</li> </ul>
<b>Contact</b>	<a href="mailto:m.nassef@fci-cu.edu.eg">m.nassef@fci-cu.edu.eg</a>
<b>Description</b>	Exploring the Genomes of Species on Raspberry-Pi Device is a research project that utilizes the Referential Genome Compression in order to manipulate big number of genomes and address the challenges that normally arise in the field of Bioinformatics like huge storage, non-portability and high costs.



<b>Project Name</b>	<b>Indoor Navigation System</b>
<b>Team</b>	<ul style="list-style-type: none"> <li>• Amr Elsayed</li> <li>• Fady Atef</li> <li>• Michel Fekry</li> <li>• Mohab Mohamed</li> </ul>
<b>Supervisor</b>	<ul style="list-style-type: none"> <li>• Prof. Amr Badr</li> </ul>
<b>Contact</b>	<a href="mailto:amr.badr@fci-cu.edu.eg">amr.badr@fci-cu.edu.eg</a>
<b>Description</b>	<p>Whenever you go to a museum or a shopping mall, you look for a map that saves you a lot of time and effort to reach a certain place inside this building. Our android application will provide an indoor map for a certain location either a shopping mall or a museum with the ability to search for desired place to go inside this place in addition to other options such as taking the user in a tour inside this building, and providing the shortest path between the user current location and a target/destination.</p>