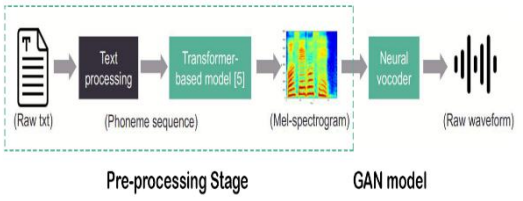
جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة	CCE	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تعلم الآلة		
	Computer and Control Engineering		Machine Learning		
عنوان المشروع:	تحويل النص العربي إلى كلام منطوق باستخدام الشبكات الخصومية التوليدية Arabic text to speech transformation using: Generative Adversarial Networks				

فكرة المشروع:

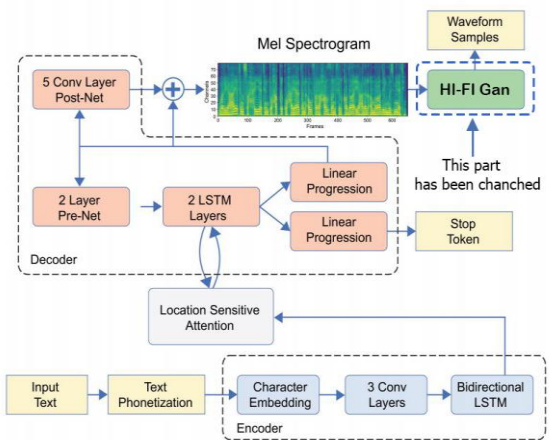
Text To Speech (TTS) or speech synthesis is a form used to create a spoken version of the text in an electronic document. An Arabic TTS application is developed in this project. Our application uses one of the famous powerful deep learning techniques called GANs (Generative Adversarial Networks which have several types. In particular, we will be using **HiFi-GAN** as it shows excellent ability to generalize unseen speakers and synthesize speech audio comparable to human quality from noisy inputs in an end-to-end setting. Using Deep Learning technologies makes it easier for us to extract more and more features which we, then, covert to more accurate probabilities of letters and get better result. The project is implemented through walking through two stages: designing a deep learning model for learning the way of pronouncing different letters with different diacrtizations, then using the resulted learned parameters to decode the text and convert it into a human like speech.

أهم النتائج:

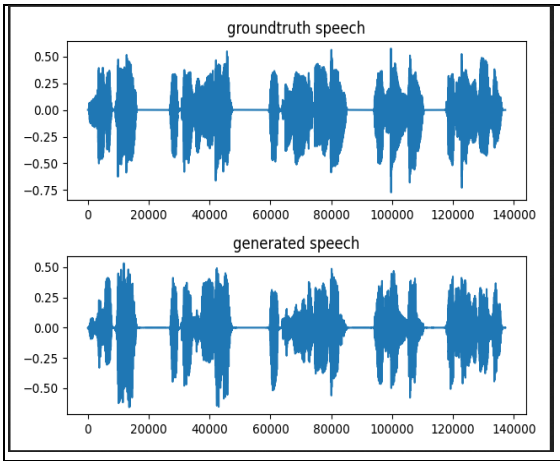
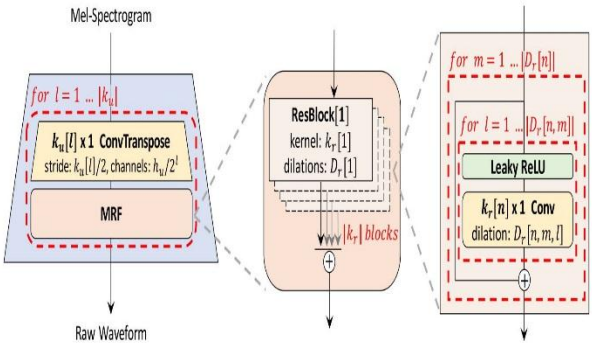
Compared to other datasets, such as the LJSpeech English dataset, our Arabic speech dataset is extremely small; therefore, a larger dataset should be used, or any form of transfer learning approaches. However, we concluded that the only logical improvement to make is to convert the text to IPA phonemes and use that as the basis for the text to sequence conversion.



Pre-processing stage in the proposed model



HiFi GAN-based TTS Model

	
Ground truth speech mel-spectrogram versus generated speech mel-spectrogram	**The generator upsamples mel-spectrograms up to |ku| times to match the temporal resolution of raw waveforms.**

نقاط التميز والتفرد للمشروع إن وجد

- استخدام اللغة العربية بدلا من الانجليزية
- استخدام نماذج حديثة من GAN

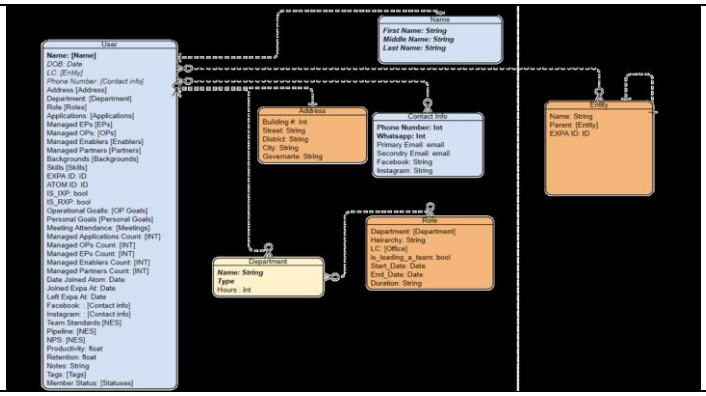
جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة		
	CCE				
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تطبيقات الويب		
	Computer and Control Engineering		Web Applications		
عنوان المشروع:	نظام إدارة علاقات العملاء				
	Customer relation management system				

فكرة المشروع:

The development of Web Application and customer relation system is an important task. However, when it's not the focus of the project, it often becomes a tedious task and wastes developers time. Front-end designing usually starts with designing the template layouts by sketching their wireframes. Translating these wireframes directly to the code and automating the front-end development process would help developers to focus more on the main aim of their projects. In this project, we introduce an application that allows the users to convert their sketched templates to interactive web pages quickly and provide them with quick styling tools. We also publish a large dataset of sketched templates with a variety of elements and pen styles. ATOM is a Customer Relationship Management (CRM), which is a technology for managing all your company's relationships and interactions with customers and potential customers. When we talk about CRM, we are usually referring to a CRM system, a tool that helps with contact management, sales management, agent productivity, and more. ATOM is more than just software or a set of processes – it's a business culture solidly focused on winning and keeping the right customers.

أهم النتائج:

Customer relation management system application that allows the users to convert their sketched templates to interactive web pages quickly and provide them with quick styling tools.



Data Model

نقاط التميز والتفرد للمشروع إن وجد

- Build and strengthen customer relationships to keep them coming back.
- Provide value-added services that are difficult for competitors to duplicate.
- Improve your product development and service delivery processes.
- Increase your staff's awareness of customer needs.
- Reduce customer frustration by not asking the same questions over and over.

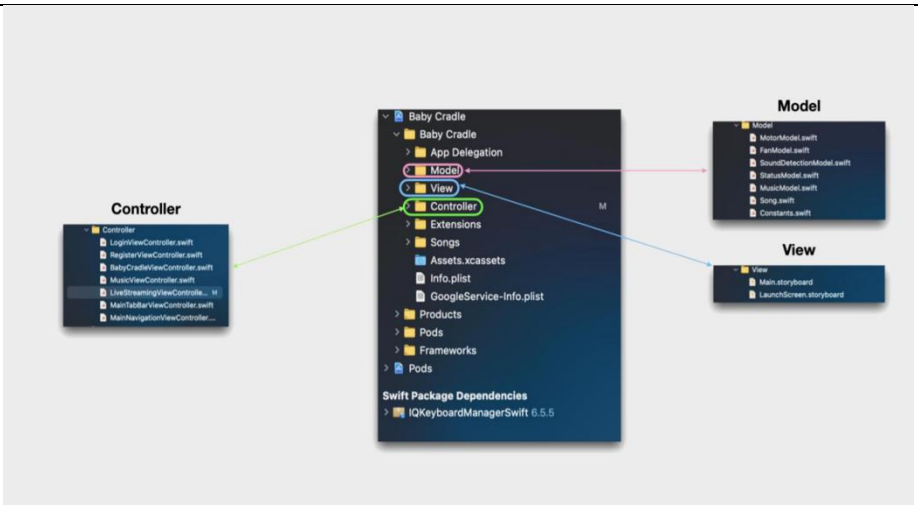
جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة	CCE	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تطبيقات الويب	Web Applications	Computer and Control Engineering
عنوان المشروع:	عكاظ: منصة محلية لتجارة المنتجات Okaz: A local area platform for trade				

فكرة المشروع:

The project is the Okaz platform, which is based on the C2C business model. The platform is available as a Web Application, as well as an Android Application. The platform allows sellers to directly upload information about the product they want to sell. Similar to an actual advertisement, this information includes a picture and textual description of the product. Buyers can connect with the seller without any third-party intervention, bargain the price and buy. In fact, the buyer can even browse several alternatives of the primary product to find the most suitable seller in terms of product quality and cost to make the purchase decision. Our business idea structure is scale-dependent whereas the platform acts as a classified portal, connecting buyers and sellers in one single entity customized and distinguished to allow the users to search for relevant categories with unique features for the users to utilize without any difficulty in searching, navigating, and adding the listing. We help every small, individual or start-up businesses to advertise their products. We invest heavily to gather more user traffic, increase the number of listings, and operate at a much greater frequency. We plan on earning revenue by monetizing on the number of searches and clicks from the incoming web traffic which we trace using google analytics. So, our prime earning is expected to be driven through advertisements, sponsored links, and listings.

أهم النتائج:

We developed a C2C e-commerce providing an innovative way to allow customers to interact with each other in one single entity. We used MERN stack and flutter to develop the platform on the web and on Android.



Application Architecture

نقاط التميز والتفرد للمشروع إن وجد
• User registration. Categories to select and advertisement post. • Image uploading for the advertisement. • Put your product owner phone number for contact. • Edit any information about your advertisement. • Add Products to your favourites list. • Recommended products based on your favourite categories. • Admin functionalities for managing the application. • Location based search.

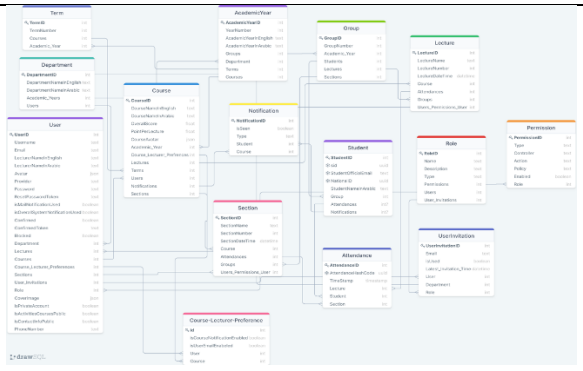
جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		CCE	الساعات المعتمدة	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	البرمجة		
	Computer and Control Engineering		Programming		
عنوان المشروع:	نظام ذكي لتسجيل وإدارة حضور الطلاب				
	Attend-Smart Attendance Management System				

فكرة المشروع:

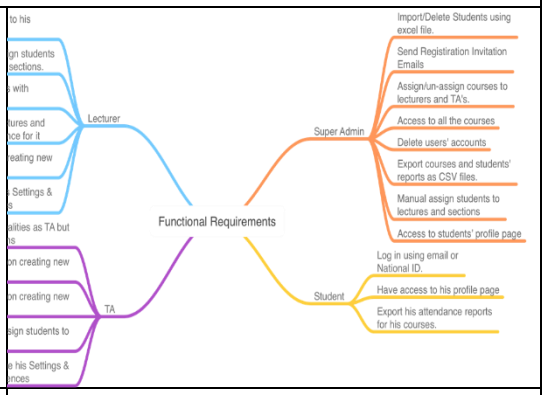
attend. is a Smart Attendance Management System used to collect and manage students' attendance records in classrooms and provide remote access to attendance reports through a website and a mobile application saving lecturers, teacher assistants, and students' time and efforts. The application is able to provide different types of attendance reports such as:
-Reports for only a single lecture or section
-Reports for multiple lectures or sections
-Report includes all lectures for a selected month
-Report includes all lectures for selected course

أهم النتائج:

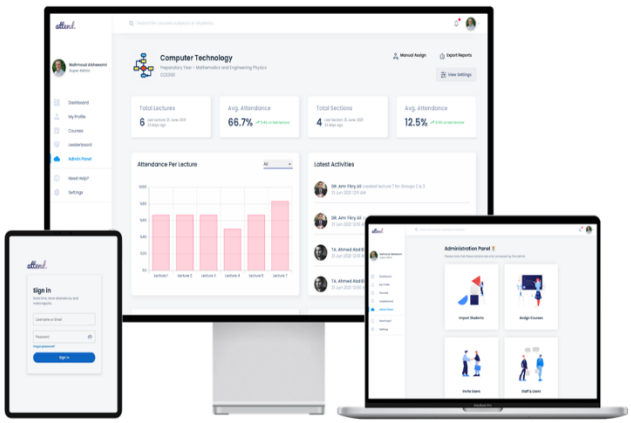
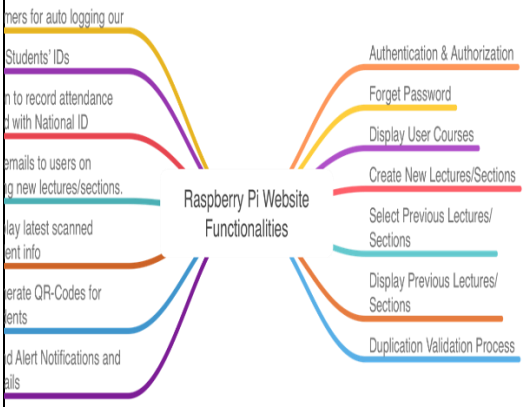
Compared to other applications, the developed one has the merits of simplicity of the interface and various capabilities and can be setup on different systems and platforms. The system interface was implemented as a web application and mobile application.



Database Design, Schema and Relationships



Roles Functional Requirements

	
Main Website	**Raspberry Pi Website Functionalities**

نقاط التميز والتفرد للمشروع إن وجد

- **سهولة استخدام واجهة البرنامج علي الويب وعلي الموبايل**
- **تعدد الوظائف والتقارير التي تستخرج من النظام**
- **تعدد الطرق المستخدمه في تسجيل حضور الطلاب**

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة	CCE	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تصميم وتطوير مواقع الشبكة العنكبوتية		
	Computer and Control Engineering		Web design & development		
عنوان المشروع:	منصة إلكترونية للياقة والصحة				
	FitHealth – online fitness and health platform				

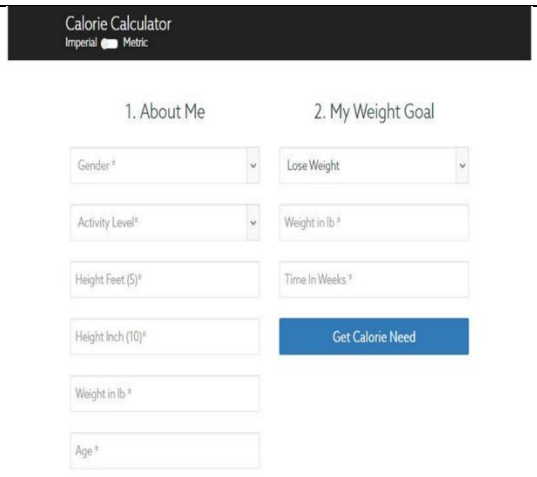
فكرة المشروع:

The main goal of the project was to develop an online fitness and health platform that is depends directly on EGYPT'S VISION 2030 and to get better health for all Egyptians. So, from this point we get our idea to make a project that help Egyptians to be healthier. Our Project is designed specifically to assist with exercise, other types of physical training, nutrition and diet, or related fitness topics. So, this is a part of a larger group of full project called health apps, are available to be used at home and while away, they are part of a healthcare movement called mobile health (mHealth) and web health (wHealth).

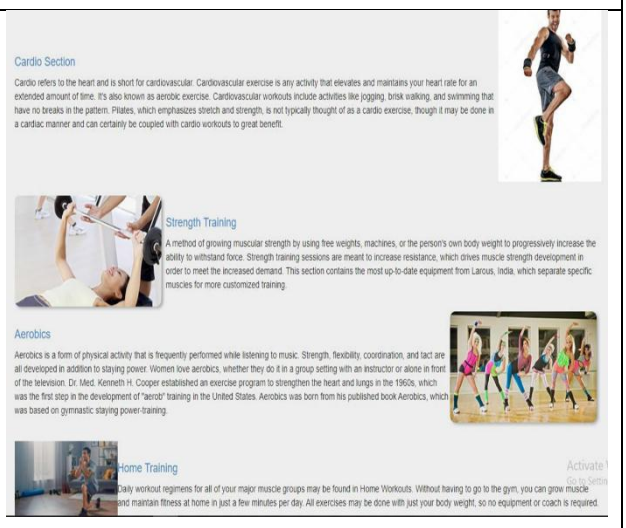
The purpose of a fitness project is to provide the user with instructions and examples of one or more types of exercise, physical activity, nutritional programs, or some other fitness topic. Some are used to count calories, others record statistics on workouts or collect data on walks, runs, and bike rides. Some fitness apps connect the user to a personal trainer or nutritionist to help with areas of concerns when using a specific fitness routine or just generally with workouts. Further, some fitness apps provide a coordinated series of songs, each having the same beat when doing such workouts as running and fitness classes.

أهم النتائج:

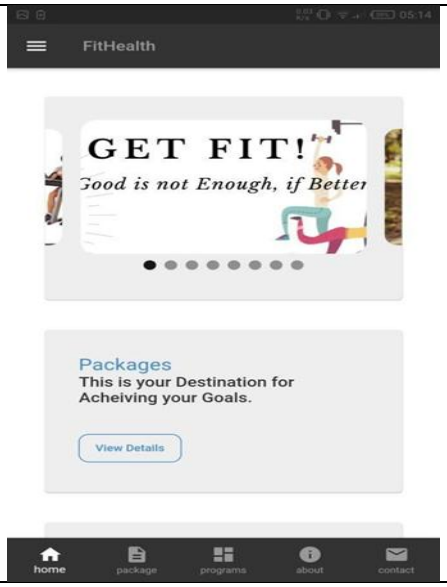
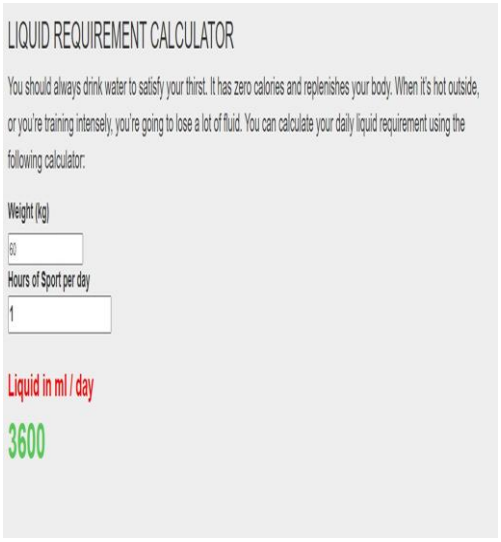
Compared to other applications, the developed one has the merits of simplicity of the interface and various data and information for living a healthy life and can be setup on different systems and platforms. The system interface was implemented as a web application and mobile application.



Calorie Calculator



Web page layout

	
Interface on Mobile	**Liquid requirement Claculator**

نقاط التميز والتفرد للمشروع إن وجد

- **سهولة استخدام واجهة البرنامج علي الويب وعلي الموبايل**
- **تقديم معلومات وفيرة وعدة تطبيقات للمساعده علي العيش في صحة**

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة		
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	الذكاء الاصطناعي		
	Computer and Control Engineering		Artificial Intelligence		
عنوان المشروع:	نظام لإجابة الأسئلة المتعلقة بالصور لمساعدة ضعاف البصر				
	VQA system aimed for the visually impaired				

فكرة المشروع:

Among 7.79 billion people living in 2020, an estimated 49.1 million are blind and an estimated 33.6 had severe visual impairment according to the Association for Research in Vision and Ophthalmology (ARVO). Vision impairments severely impact the quality of life. An individual with vision impairment is more likely to be dependent on others and this contribute to higher rates of depression and anxiety.

In this project, we aim to help individuals with vision impairment to have a normal life without the burden of reliance on others by building an artificial intelligence (AI) solution that provides “Visual Question Answering” (VQA). The system which runs entirely on the person’s mobile phone will use the phone camera to capture an image and the microphone to accept a question. Then it will process both the image and questions to reply with an answer to the user.

The system runs entirely on the users mobile phone without relying on any remote server for computation. This helps to achieve the goals of availability and privacy.

أهم النتائج:

- Built, trained and evaluated a model for visual question answering (VQA) that produces results close to state-of-the art models.
- Deployed the model entirely on mobile device using TF-Lite library.
- Developed a working prototype of the entire solution.

Solution Overview

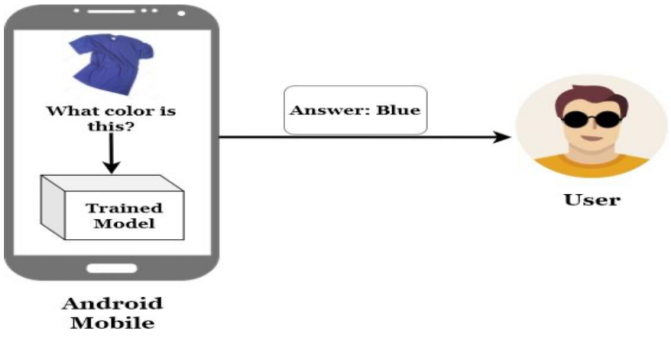
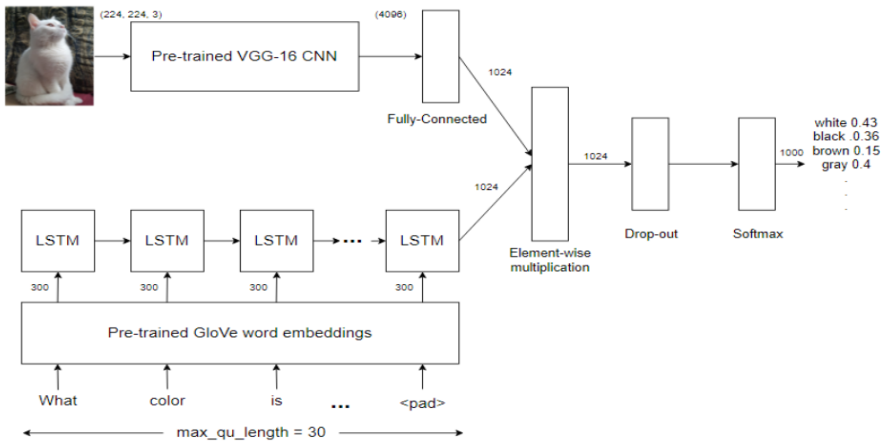


Figure 1: An entire VQA system run and deployed on a mobile device.

Model Architecture



نقاط التميز والتفرد للمشروع إن وجد

* The entire solution (including VQA model) runs on-device using the mobile phone resources. This helps to achieve the goals of***availability***not requiring an Internet) connection), and***privacy***.(not sharing data with remote servers)
* .Built a working prototype of the entire solution

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة		
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تعلم الآلة		
	Computer and Control Engineering		Machine Learning		
عنوان المشروع:	التنبؤ بالطقس باستخدام الذكاء الاصطناعي				
	Weather forecasting platform based on machine learning				

فكرة المشروع:

Weather forecasting has traditionally been done by physical models of the atmosphere, which are unstable to perturbations, and thus are inaccurate for large periods of time. Since machine learning techniques are more robust to perturbations, in this paper we explore their application to weather forecasting to potentially generate more accurate weather forecasts for large periods of time. The scope of this project interested in forecasting the weather (temperature, humidity, wind speed, load cover) by using Recurrent Neural Network “RNN” deep learning model then these predictions used to obtain the summary of day (cloud, sunny, overcast, etc.), finally, these information displayed through our website to help anyone to know the condition of weather for all periods in the day. A front ground using a web site was also introduced.

أهم النتائج:

Our website provide information about weather for 5 days with accurate increase about 70% in normal conditions.

نقاط التميز والتفرد للمشروع إن وجد

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة		
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	علوم الحاسب		
	Computer and Control Engineering		Computer Science		
عنوان المشروع:	منصة إيدج للتجارة الالكترونية				
	Edge: An E-commerce platform powered by an AI recommendation system				

فكرة المشروع:

E-commerce platforms have become the largest way of buying & selling any items. Huge amounts of items are being traded daily and even more lately due to the covid-19 pandemic people preferred online shopping in order to limit the contact between people and home quarantine. We aim to make a platform powered by an AI recommendation system to get the best experience for the user and personalized items to make the shopping process more efficient and to get the best deal and giving the seller an easy control of their product and direct contact to the customers. Our goals are to build a user-friendly website using animation packages, then Integrate ML based model to recommend products to the user, finally Expand the experience and build a cross platform Mobile Application.

أهم النتائج:

This idea has been made before on websites but we've decided to expand the idea with a website and a mobile application to give the user mobility and the freedom to access our platform on any device and from anywhere.

نقاط التميز والتفرد للمشروع إن وجد

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة	CCE	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	برمجة الويب وقواعد البيانات		
	Computer and Control Engineering		Database & Web programming		
عنوان المشروع:	منصة امتحان أونلاين				
	OnXams: An Online Exams Platform				

فكرة المشروع:

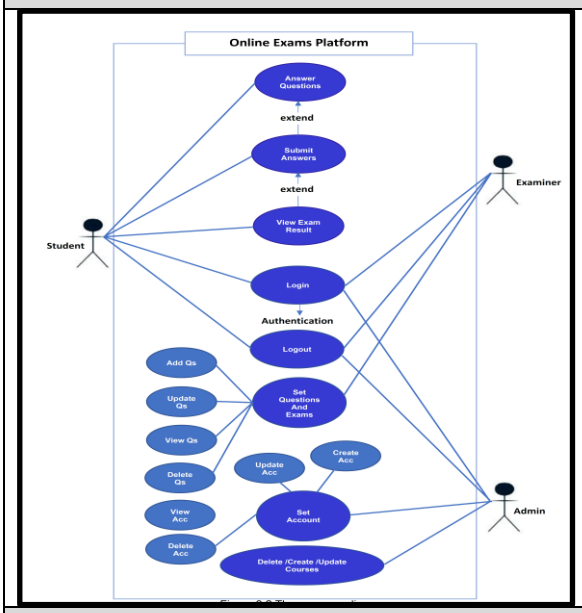
The Evaluation and exam process is an important part of the educational process, it requires a big effort and a lot of resources. The digital solution for this problem has a great benefit, so we create in this project a web application for the evaluation and exam process to make it easier for faculty to make exams and evaluate its students and save grades digitally and automatically.

Due to these reasons:

• The Current situation and the impact of the spread of the Corona virus (COVID-19) and need to be home a lot.
• The state's orientation towards the digital systems and e-learning especially.
• We need to benefit our faculty, professors, staff, and employees.
• We need to learn a trending field like web development.

we chose to create a web application for online exams platform that enables examiners to make an online exam for their students with a lot of various types of questions and save the time and effort of exam correction and grading and save the resources of our faculty

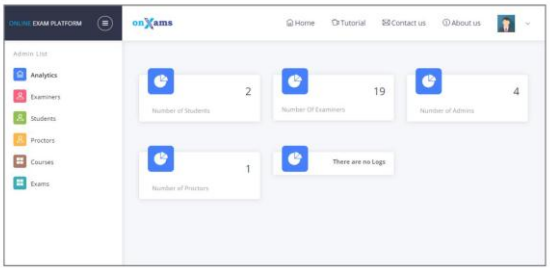
أهم النتائج:



An online examination system is implemented using these steps:

• UML and use cases
• Database design
• Database implementation
• System implementation

Admin Page



نقاط التميز والتفرد للمشروع إن وجد

- منصة امتحانات اونلاين متكاملة
- درجة عالية من الامن باستخدام طرق متعددة للتشفير

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة	CCE	
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	برمجة الويب وقواعد البيانات		
	Computer and Control Engineering		Database & Web programming		
عنوان المشروع:	منصة اونلاين لحجز مرشد سياحي خاص Egy Guide: A private tour guide provider via an online platform				

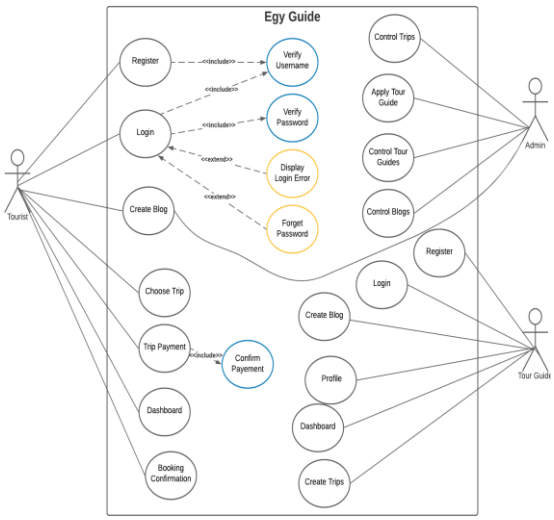
فكرة المشروع:

In this project, we propose a platform Called "EGY-GUIDE". EGY-GUIDE is an Egyptian-based, national private tour guide provider. We focused on the basic function of connecting tourists with local guides via an online platform, relying on peer reviews to establish quality control measures. The technology that used in the platform is ASP.NET Core because it is a cross-platform, high-performance, open-source framework for building modern, cloud-enabled, Internet-connected apps.

Through the platform, tourists can search for and book private tours in over 9 different tourism cities in Egypt. With Egy guide, tourists can discover new cities, towns, and regions through many lenses: history, photography, food, architecture, art, music, nature and local culture ...etc. Egy guide is helping tourists in Egypt, by making it easy to find reliable, experienced, and inspiring tour guides in Egypt. The mission of the platform is to provide exceptional private tours in Egypt.

أهم النتائج:

5.3 Egy Guide Scenario



A private tour guide provider via an online platform is implemented using these steps:

- UML and use cases
- Database design
- Database implementation
- System implementation

Main Page

نقاط التميز والتفرد للمشروع إن وجد

- **منصة لإدارة الخدمات السياحية والإرشاد السياحي**
- **التواصل الآمن بين جميع المستخدمين دون الاخلال بالخصوصية**

	جامعة:	طنطا	كلية:	الهندسة	
البرنامج:		هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓
كود:	CODE	CCE		الساعات المعتمدة	
التخصص العام:		هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تصميم مواقع الويب	
		Computer and Control Engineering		Web Design	
عنوان المشروع:		منصة سياحية لتشجيع السياحة الداخلية في مصر			
		A tourist platform to encourage domestic tourism in Egypt			

فكرة المشروع:

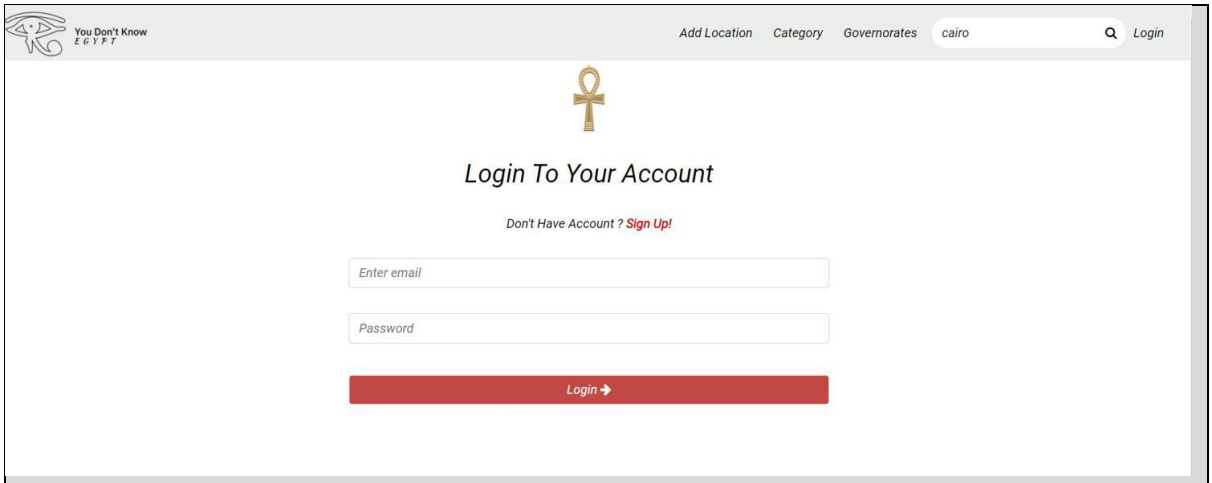
This web application is an online service for increasing domestic tourism in Egypt and focusing on less-known tourist locations, As the world is facing an unprecedented global health, social and economic emergency with the COVID-19 pandemic, travel and tourism is among the most affected sectors with airplanes on the ground, hotels closed, and travel restrictions put in place in virtually all countries around the world. It noted that the search rate for "domestic tourism" in Egypt increased by 26% during the summer season, and by 53% for those who searched for "domestic flights". So, we made our platform that is aimed at providing three main functions :

1. Providing information about important places of interest. The visitors can read and know more about these places, they can also see photographs to these places.
2. Give the users the ability to add locations that worth visiting.

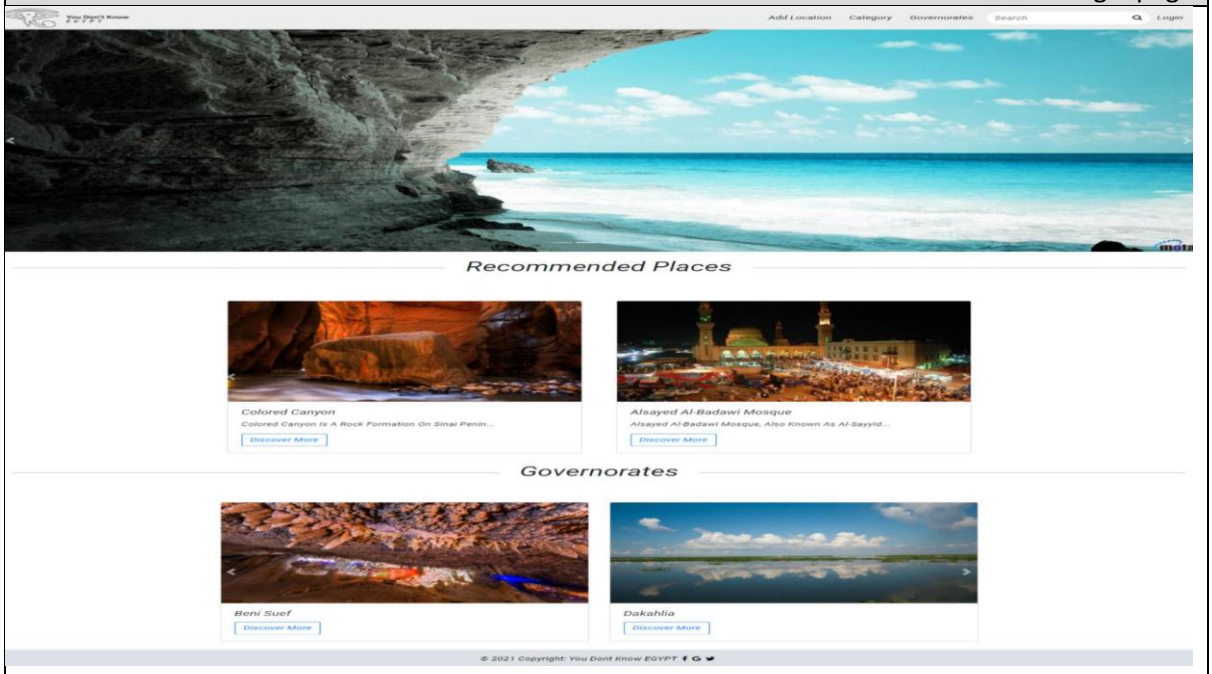
Give the users the ability to share their experiences through the comments section below each location.

أهم النتائج:

Because of the halt in tourism since the pandemic hit. It noted that the search rate for "domestic tourism" in Egypt increased by 26% during the summer season, and by 53% for those who searched for "domestic flights". The conditions created by the global pandemic have led to restrictions on travel and mobility, and a commensurate decrease in the number of international travellers and business trips around the world. Workers in the tourism sector were battered heavily by the virus, and reviving domestic tourism was key to saving the jobs of the workers in that vital industry. Our platform aimed at reviving domestic tourism, giving Egyptians opportunities to visit tourist cities at cheap prices, as well as boosting business for hotels at a difficult time, by Providing information about important places of interest, The visitors can read and know more about these places, they can also see photographs to these places.



login page



Recommended places page

	جامعة:	طنطا	كلية:	الهندسة	
البرنامج:		هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓
كود:	CODE	CCE		الساعات المعتمدة	
التخصص العام:		هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	أمن الشبكات	
		Computer and Control Engineering		Network Security	
عنوان المشروع:	نظام شبكات وإدارة الوصول للبيانات Network Infrastructure and Access Management System				

فكرة المشروع:

Our project is examined the design and connection of a network for a virtual company specialized in the field of construction consisting of three branches. The main branch is in Cairo, which has a largest server among the branches and has the largest number of employees. The other two branches are in Alexandria and Tanta. We connect all branches through the Internet Service Provider (ISP). We use Virtual LAN (VLAN) in switching to segment between departments to provide:

1. Segmentation
2. Reduce Cost
3. Security
4. Stop broadcast storm

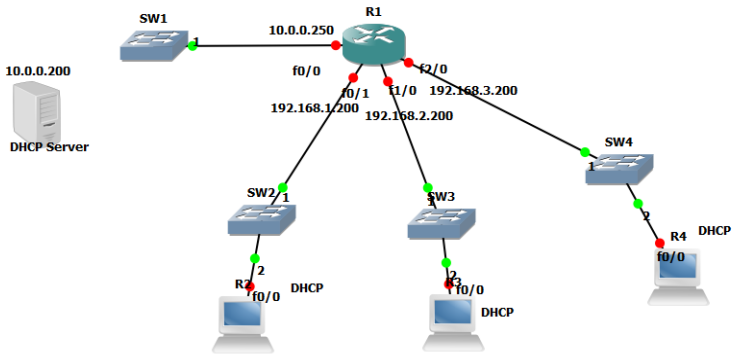
We use Open Shortest Path First (OSPF) protocol in routing between the three branches.
Programs we used to implement our project:

1. GNS3
2. Packet Tracer
3. VMware

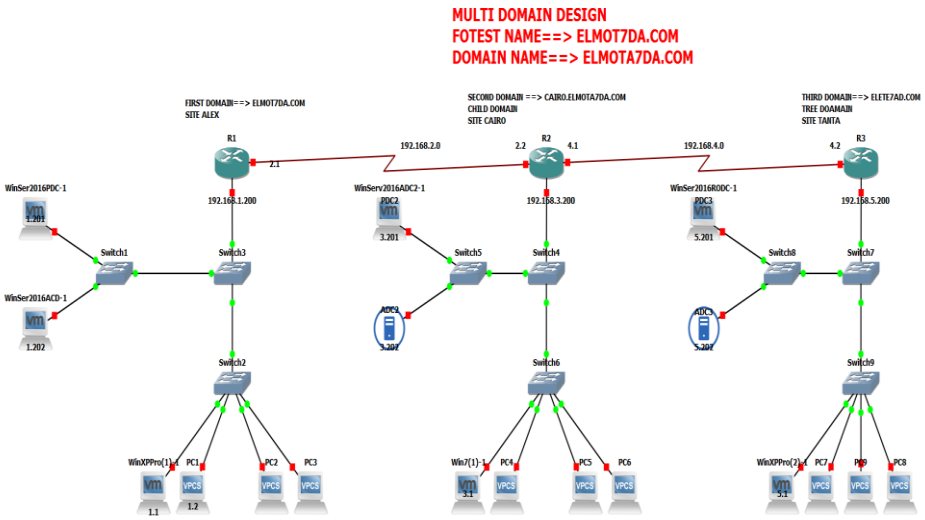
Wire shark

أهم النتائج:

- Develop management and reduce paperwork.
- Improve services.
- Easy access to data.
- Secure the saving data.
- Raising the efficiency of employees.
- The security system works efficiently.
- Maintain confidentiality of data.
- Intrusion Prevention Network.



GNS3 Lab DHCP Relay Agent Configure



	جامعة:	طنطا	كلية:	الهندسة	
البرنامج:		هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓
كود:	CODE	CCE		الساعات المعتمدة	
التخصص العام:		هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تعلم الآلة	
		Computer and Control Engineering		Machine Learning	
عنوان المشروع:	الترجمة باستخدام الشبكات العصبية الاصطناعية				
	Neural Machine Translation				

فكرة المشروع:

Neural Machine Translation (NMT) has presented promising results in Machine translation, convincingly replacing the traditional Statistical Machine Translation (SMT). This success of NMT in machine translation tasks therefore projects to more translation tasks using NMT. In this project we implement an NMT model that has the ability to be used efficiently in real world applications.
We go through all the steps from zero lines of codes going through collecting the data, preprocessing it, building every bit of the model, working continuously on improving it, training the data, getting its predictions and finally putting it on the internet.

أهم النتائج:

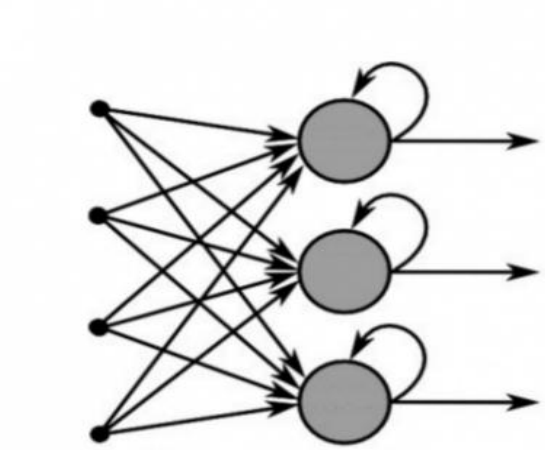
If you are a fan of Google translate or some other translation service, do you ever wonder how these programs are able to make spot-on translations from one language to another on par with human performance. Well, the underlying technology powering these super-human translators are neural networks and we are going build a special type called recurrent neural network to do Arabic and French to English translation using Google's open-source machine learning library, TensorFlow.
So in the implementation of the project, we will take it step by step from an empty document to a well operating neural translating machine.
The steps we will take is as follows:

1- Data collecting, loading and preprocessing

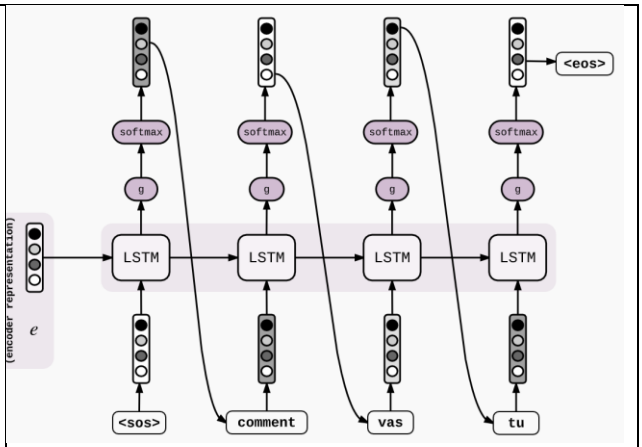
2- Model Creation

3- Training and prediction

4- Deploying to cloud using anvil service



Recurrent Neural Network



Prediction algorithm

```
sentence = "هل انت مشغول غداً صباحاً "
pred, attn_weights = translate(sentence)
print(pred)
```

```
are you busy tomorrow morning? EOS
```

```
sentence = "تحتاج أقلامك إلى بري "
pred, attn_weights = translate(sentence)
print(pred)
```

```
your pencils need is to be fixed. EOS
```

Translation example from Arabic to English

```
sentence = "Tom est à l'église"
pred, attn_weights = translate(sentence)
print(pred)
```

```
tom is at church . EOS
```

```
sentence = "je suis plus âgé que vous"
pred, attn_weights = translate(sentence)
print(pred)
```

```
i m older than you are . EOS
```

Translation example from French to English

نقاط التميز والتفرد للمشروع إن وجد

- High Accuracy in translation from Arabic to English and from French to English.

جامعة:	طنطا	كلية:	الهندسة		
البرنامج:	هندسة الحاسبات والتحكم الآلى	النظام الدراسى:	الفصلين الدراسيين	✓	
كود:	CODE		الساعات المعتمدة		
التخصص العام:	هندسة الحاسبات والتحكم الآلى	التخصص الدقيق:	تصميم وانشاء صفحات انترنت		
	Computer and Control Engineering		Web Development		
عنوان المشروع:	استشارة اونلاين: منصة مهتمة بمجال الطب النفسي وعلاج الأزمات النفسية				
	Dr psychology: A platform interested in the field of psychology				

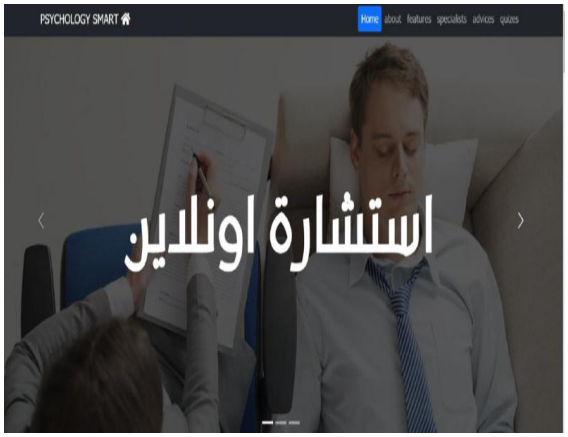
فكرة المشروع:

People are exposed to situations and problems in which they need to consult experts in various fields of life, whether psychological or family counseling during the raising of their children or going through a difficult situation or the need to take a difficult decision, which is what our system attempts to provide easily for users.
The user only must create a new account in our system easily using the email.
The user will receive a set of questions and through his answer the system will determine his personality, and this will help us in solving his problem.
Then the user can offer his advice on the systems, and he will be answered immediately through Online Therapy Consulting - إستشارة أون لاين for free.
The user can also browse the specialists in the field he wants in the fields provided by the system, which are which are until now psychological and family, then choose the consultant or expert who wants to get advice from him, and the system provides a profile of each expert and his expertise and customer evaluation for him.
After that, the user only has to write to this consultant or expert and explain his problem to him, with the ability to attach a photo or file to clarify the problem and wait for the consultant‘s response to ensure his ability to help and with receiving the response of the expert or advisor, the user can request the consultation and pay the interviewer to set an appointment to obtain a video call of up to 30 minutes from the consultant to help him solve his problem.

أهم النتائج:

During the development of the project, whose purpose was the creation of a medical clinic site allowing interactive collaboration of different user groups of the website (patients, doctors, receptionists, and administrator), the following tasks were done to achieve that objective:
Analyze the competitive environment, technological analysis, and development methodologies to use so that we are able to develop a website with the most needed features, with the best technologies in the most efficient way. o We wanted to give the early version of the website to the client as early as possible so that
A technical analysis and the competitive environment of the enterprise was performed, which has identified the need to establish a medical clinic site that would reduce the cost of clinic’s staff and increase staff’s working efficiency by developing the online appointment scheduling application. The competitive environment analysis allowed us to see the most important features a website should offer in an online medical clinic.
The process of developing the clinic site consisted of several stages, including the formation of the basic concept of the site, creation of user groups and assignment of appropriate access

rights, the use of extensions to design pages with specific requirements and the use of useful widgets, plugins and libraries provided by a CMS of choice, WordPress.
Overall, we consider that all the requirements/objectives were fulfilled accordingly. We can say that the development team has learned several techniques during the development of this website making possible to further improve it and maintain it with necessary efficiency.



نقاط التميز والتفرد للمشروع إن وجد

- Added safe area in system we called it questions section that allow to user/patient to ask for anything about his psychology, but no one can see his questions or the doctor ‘s answers from guest or another patient /user.
- The user can choose any doctor or specialist that he wants to take an appointment with him in clinic or through video chat between them that mean the system provide real time chat.
- We added some videos like psychological capsules to know more about the psychological
- Added fun quiz to know the mood or the psyche of the user while using the system.