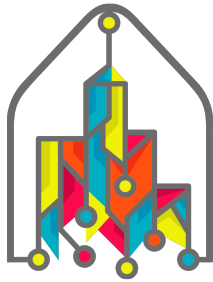




كلية علوم الحاسب والمعلومات
College of Computer and Information Sciences



Graduation
Projects
Expo

Academic Year 2016-17

Graduation Projects



Content

03

Dean's Statment



08. Computer Science - Male

26. Computer Science - Female

05

Vision , Mission &
Goals



52. Information Systems - Male

72. Information Systems - Female

07

College Timelines



100. Informartion Managment - Male

110. Informartion Managment - Female



Dean's Statement

“ The college seeks to raise the level of the educational process and to provide better service to the community “

The decision to establish the College of Computer and Information Sciences was in line with the evolution of the enormous technical progress experienced by the world today, which requires educating, training, and developing faculty and staff to reach a desired comprehensive renaissance for all areas.

The college offers a wealth of opportunities for learning. We grant baccalaureate and master degrees in disciplines that represent important pillars of any scientific progress with effective research through college departments.

The college has adopted modern teaching methods, including high-quality, student-centered learning and hands-on training as an application of the college's mission

to solve problems in the education process. These new methods have contributed to the application of technology to e-learning systems. Because of these efforts, we are considered to be one of the leading colleges at the Imam Muhammad bin Saud Islamic University for initiating the application of these methods to keep pace with global scientific developments. The college supports applied research in the various disciplines of computing through the establishment of research groups within the various departments and by collaborating with various local and international bodies. The college also offers programs for renewed community service such as workshops, training courses, and diplomas to achieve its objectives.

The college seeks to raise the level of the educational process and to provide better service to the community. In accordance with the latest regulations and with international quality and standards, it continues to support scientific research that encourages researchers' goals to build a strong joint collaborations with universities and research centers, both domestically and internationally.

Dr. Waleed Alrodhan
CCIS Dean

”



Vision , Mission & Goals

Vision

CCIS vision is to be a regionally and globally leading college in teaching, research, innovation, entrepreneurship and community service .

Mission

CCIS mission is to provide, through innovative teaching and research, science and technology education aimed at producing a new generation of highly motivated, competent, skilful, innovative and entrepreneurial scientists and professionals to help the Kingdom of Saudi Arabia become a leading knowledge-based economy .

Goals

The university as a cultural and intellectual institution aims to promote knowledge offering undergraduate as well as postgraduate studies. One of the most important aims is to promote translating and publishing as the university has its own print house. Moreover, the university achieves its goals within the Islamic Shari'a.

- Develop high quality academic programs.
- Adopt a quality teaching process that ensures highly effective learning.
- Promote high quality, innovative and multi-disciplinary applied research.
- Respond to the needs of local and regional industry/ government in line with the University's Research priorities and the National Technology Plan.
- Construct effective partnership with the industry, government and other organizations to ensure an effective, goal-oriented outcome that is well aligned with their needs.
- Develop and maintain an active international cooperation with academia, industries, government and non-government organizations.
- Provide community-based outreach programs.

College Timeline

The College 1998

Council of Higher Education Approval

1419/04/11 - 1998/06/09:

Council of Higher Education has issued the approval for the establishment of the Computer and Information Systems Department in the College of Social Sciences.

1999

The Beginning

(1420-1421) - (1999-2000):

The department has begun teaching its program in the first semester of the academic year 1999-2000

2002

Department To A College

1423/04/01 - 2002/06/12:

The department continued its expansion and growth until the approval was issued by the Council of Higher Education (No. 3/1422, dated 5/2/2002) which was sealed by the approval of the Royal Decree (No. 7 / b / 10465, dated 12/6/2002) to convert the department to a college, named the College of Computer and Information Sciences, which would include two departments: Computer Science and Information Systems Departments.

2007

Information Studies Department

1428/01/26-2007/02/14:

The college's third department, named the Information Studies Department, was appended in 12/11/2006, after the approval was issued by the Council of Higher Education (No. 21/44/1427) and sealed by the approval of the Royal Decree (No. 1086 / m b, dated 14/2/2007).

2016

ABET Accreditation

1437/11 - 2016/09:

In September 2016 ABET informed the college and university formally approve the accreditation of all three college programs (Computer Science - Information Systems - Information Management) to 2022, the longest period of accreditation granted by ABET organization.





Computer Scinces Projects

Male Section

#1 Project Title:Voice control system for handicapped workers

Supervisor Name:

Dr. Mohammed alkhatib

Students Names :

- Meshari Oudah Alshehri
- Abdulrhman khaled aidarous kuddah
- Abdullah Ismail alismail

Project Description:

This project uses voice recognition system to help handicapped workers. The main objective of this system is to create job opportunities for disabled workers in different work environments in the Kingdom of Saudi Arabia.

In particular, this project will be implemented to support workers in the electricity company, and hence grant people with disabilities the opportunity to perform tasks and enter commands using voice commands, which facilitate their work. Java language will be used to implement the sound system.

#2 Project Title:Java Packet Copy Maker

Supervisor Name:

Dr. Habib-ur Rehman

Students Names :

- Khaled Hassan Amer Alasmari
- Ibrahim hammd abdulrahman albridi

Project Description:

This application captures network traffic and is designed using Java and Jp-cap library. It works in both Windows and Linux environments. It collects the traffic arriving on the network interface of the node where it is installed and displays the activity through a graphical interface.

The application can be used to save the traffic to the local hard disk or share it with people or programs that can analyze this data. Sharing is possible over the email or sending to other devices on the same network in the form of packets.

#3 Project Title: Handwritten Digit Recognition

Supervisor Name:

Dr.Abdulrahman albarrak

Students Names :

- Saud abdulaziz mohamed Al khathlan

Project Description:

Our project is to build handwritten digit classification system to make the computer recognize the handwritten number in images. This project could be considered as part of Optical Character Recognition (OCR) system. This will help to saves time if we have some numbers written by handwriting then they will be converted digits.

This project is important for business applications that depends on numbers such as statistics, accounting applications. We will evaluate the performance of our machine-learning algorithm on The MNIST dataset, which is the most known benchmark for many different algorithms. We hope that our proposed algorithm achieve lowererror classification percent.

#4 Project Title: Graduation Project Management System

Supervisor Name:

Dr. Waleed A. Aljandal

Students Names :

- Mohammed dhabann alsahali
- Mohammed zaher alshehri

Project Description:

This project is to facilitate the graduation project management process, Projects are presented to the university through the supervisors through the system and then the university acceptance or rejection of the projects at the private university standards and also to prevent repetitions and similarities between the projects and previous projects, where are presented a series of projects on the students, the student to choose a project and choose the supervisor of the project, which can acceptance or rejection in the case of accepting the project.

The student can work on the project and the amendment thereto through a template can also project supervisor follow up the progress of the project and the work and archive notes these observations and so on until the end of the project and discuss the project by the Commission to discuss projects and get the student to estimate. The system archives all the projects and work system provides communication between the supervisor and the student and print reports. This system, which facilitates the communication process and project management.

#5 Project Title: Phonetic Encoder for Arabic Words

Supervisor Name:

Dr. Ahmed Khorsi

Students Names :

- Ibrahim Alohaideb
- Abdulrahman Adel binyosef
- Muteb Abdulrahman AlKhamsee

Project Description:

We present a phonetic encoding for Arabic that can be used to know the words that have the similar pronunciation.

The encoding is similar to Soundex algorithm.

We start by analyzing Soundex encoding scheme when applied to Arabic.

Our solution is program takes Similar words to pronounce and gives it a certain code to distinguish them from others.

We can evaluate the solution by input many words have the similar, different pronunciation and make sure that the output code values for the similar are comparable and for the different are disparate.

but if the output code values for the similar are disparate that's mean failure.

#6 Project Title: Genetic Algorithm for the Generalized Assignment Problem

Supervisor Name:

Dr. Zakir H Ahmed

Students Names :

- Ahmed AlYami
- Mohammed Alamri
- Mohammed Hussain Khalufah Alahmari

Project Description:

The generalized assignment problem (GAP) belongs to the class of NP-hard problems and is considered as one of the most difficult problems. The problem is seeking to find the minimum cost assignment of n jobs to m agents ($n > m$) such that each job is assigned to exactly one agent, subject to an agent's available capacity.

The problem has many applications in real-life. There is no known exact algorithm for solving this problem in polynomial time, and even small instances may require long computation time. Therefore, one has to go for heuristic algorithm for solving the problem, and genetic algorithm is one of the best heuristic algorithms for solving combinatorial optimization problem. So we are going to develop a genetic algorithm for solving the problem.

#7 Project Title: Experimenting with IoT using HAP platform

Supervisor Name:

Dr. Laith Alsulaiman

Students Names :

- Anas Soliman Abdulrazag Alghadyan
- Othman Abdullah AlKodair
- Abdulmajeed Badar Alaskar

Project Description:

The internet of things (IoT) is the interconnected physical devices, vehicles, buildings, household appliances and other equipment that enable all of them to collect and exchange data in order to implement many interesting solutions which would enhance our experiences and offer better safety. One important application of IoT is home automation which involves the control and automation of lighting, heating, air conditioning (HVAC), appliances, and CCTV.

HAP is a vendor and technology agnostic open source automation platform for home automation.

The project is about integrating multiple appliances such as door and temperature sensors and experiment with ideas to provide better user experience to the user.

#8 Project Title:Packet Analyzer Using Java Language

Supervisor Name:

Dr. Habib-ur Rehman

Students Names :

- Osama ibrahem ahmed saleem
- Ahmed Taleb Ali AlZabidi
- Muneer Hasan Ahmed Alnajdi

Project Description:

Because of the massive use of network and services that depends on network. Network technicians seek solutions for improving network performance. Network should enable involved parties in network to communicate with perfect service. For these purposes, network technicians use tools to capture packets from network. These packets can be decapsulated to get information. The information helps network technicians to improve network.

In this project, the team worked on build tool for capturing and analyzing packets. The tool analyzes individual packets from network. The packet is unpacked to explore data that can be useful for analyzing it. The tool shows contents of packets in easy graphical user interface.

The objectives of building packet analyzer tool is monitoring and analyzing network traffic for network technicians. The information can improve decision making for network administrators. The team members improve programming and networking skills is objective of the project as well.

#9 Project Title: A Comparison of some Selected Classification Algorithms for EEG Data

Supervisor Name:

Dr. Qasem Obeidat

Students Names :

- Abdulrahman Abdullah Alqahtani
- Abdulelah Saad Alahmri
- Saad Abdulaziz Alhamdan

Project Description:

In this project, we will work on two existence Electroencephalography (EEG) data sets. There two (Emotiv EEG) data sets were collected from two different P300-based brain computer interfaces (BCIs) spellers, row-column paradigm (RCP) and edges paradigm (EP).

In this work, we are intended to find out the accuracy, with precise and fully statistical analysis, for each data set by using four linear classification algorithms: bayesian linear discriminate analysis (BLDA), fisher's linear discriminate analysis (FLDA), linear support vector machine (LSVM), and stepwise linear discriminate analysis (SWLDA). Also, one nonlinear classification algorithm is used, which is called gaussian support vector machine (GSVM).

#10 Project Title: Designing an AI Agent for adversarial games

Supervisor Name:

Dr. A Ahmed Biyabani

Students Names :

- Yasir Salih Bin Abdullwahab
- Adel Fahad Abdullah Alghamdi

Project Description:

In most of societies, a lot of people go by cars to their appointments. some of them, or many, may be delayed, but they have to reach their destination on time. So, that may make some people have to drive with high speed and break the laws to reach their appointments on time, else they will be late. So they put their lives and the lives of others at risk.

In this project, we will design an adversarial game by using Artificial Intelligent Agents and some searching techniques to explain how the police can catch the people who do not respect laws in an efficient way.

#11 Project Title: Tool for Search Engine Optimization

Supervisor Name:

Dr. Abdulrauf Malik

Students Names :

- Faraj Monahi Al-Qahtani
- Fahad Ali Al-Faifi
- Abdulrahman Salah Al-Harabi

Project Description:

Search Engine Optimization is a technical, analytical and creative process to improve the visibility of a website in search engines. The rank of your website in search engines has a direct effect on the number of visits your website will get. In addition, the appearance of your website when the user search for a certain keyword is a great indirect marketing strategy for driving more visits to your websites.

Nowadays, companies realize the importance of search engine optimization and every company in all the fields are dealing with it as a very critical issue. Some companies prefer to rely on specialized marketing companies to handle their SEO profile, others prefer to handle it in house. In both cases these companies should have a plan to better handle SEO, because competition is very high and everyone is seeking a better rank on search engines. In our project, we will create a web application for Search engine optimization. This web application will work as a tool for everyone wants to handle his SEO profile for his website. This tool will consists on many functionalities like Indexing, Page Ranking Monitor, Keyword, Data Extraction, and much more.

#12 Project Title: Energy Aware Routing Implementation

Supervisor Name:

Dr. Alaa Eldeen Sayed Ahmed

Students Names :

- Waleed Abalkhayl
- Omar Aldosary

Project Description:

Wireless sensors network based to send information to collect key information station, this information is such as temperature, measuring humidity and wind, measuring earthquakes, and to alert the passage of persons or movements abnormal. As for the areas of use it (fire alarm devices, battlefield, in the desert to measure the weather, get traffic, etc. ...).

If we talked about wireless sensors network, we're talking about the core problem, which is the problem of limited energy of the sensors because of their small size and no Source energy. if each sensor based access to information then processing data and then sends it to the base station every minute - for example -, sure will be consuming battery Fast.

Research began on the energy problem of the sensors of 1998 and continuing to this day to try to solve the problem, some of the researchers was able to contribute to the improvement of the problem by reaching a protocols results showed improved sensors power when working out and extend the life of the sensors.

The basic idea which researchers work to solve the problem is the algorithms routing.

In this project, we will study and implement one of these protocols and we will discuss the results of the pre-protocol use and after use, and we review the rate of improvement of the Protocol to the problem of the energy sensors.

#13 Project Title: Topic Specific Social Media Mining Tool

Supervisor Name:

Dr. Abdulrauf Malik

Students Names :

- Bassam Alhefdhi
- Albraa Alfheid
- Ali Alqarni

Project Description:

In these days, large number of people are using social media and they are interacting with each other by exchanging a huge number of data through these social media applications, these data may consist of their opinions or visions of certain topics.

on the other side, there are others who are interested in benefit from this data for certain purpose, especially in data that is not posted in privet network since it is considered as public information. This information can be analyzed and made into a new vision suitable for used for other purposes.

In this report, we produce a tool that can help in extracting, classifying and analyzing information on certain topics, then produce new analyzed information has a value for other purposes of writing it.

#14 Project Title: Augmented Reality (AR) in Real Estate

Supervisor Name:

Dr. Abdulaziz Almohaimeed

Students Names :

- Abdullah Abdulaziz Alhaider
- Ayman Saleh Alwhaibi
- Sultan Mohammed Alhosan

Project Description:

When you see a land property you are interested in, and there is no information about the owner or any way to contact him\her (apart from wandering around aimlessly or searching different resources such as the internet, the newspaper, real estate agents, or asking neighbors), there is an opportunity for an easier solution.

We found an easy and effective way to extract information about the owner of a specific property just by being near the land. By logging on to our proposed application, you will get the information you need—all within the palm of your hand.

This application will use augmented reality, a technology that is starting to be widely used in different types of applications that integrate a real-time physical environment with digital information. Mixing augmented reality with real estate information will increase the efficiency and ease of property searches.

In our application, we will be building a database by collecting the necessary information from the most popular real estate agencies, which will help in optimizing the search.

#15 Project Title: MOBILE SERVICES COMPARISON WEBSITE

Supervisor Name:

Dr. Arfan Jaffar

Students Names :

- Khaled Ayed Alanazi
- Ali Suhail Alghamdi

Project Description:

Anyone that have bought a product knows that it is too hard to take your decision, simply because you have huge amount of options to choose from. Although personal taste is part of your decision but at the end, all of us want to get the best deal and nothing can give you this information better than reviews and comparison websites.

Many products sales are based on reviews and comparisons and Smart Phones definitely come on the top of the list. Currently, there are hundreds of Smart Phones to choose from in all price ranges, and people like to have any help to make them take the right decision. In our project, we want to build a practical and easy to use website for Smartphones. This website will make it easy for everyone to compare any Smart Phone model with another model even if it is from another brand.

The website also will contain an evaluation points for every feature to help user choose the best option. Finally, we will empower the website with customizable search engine to make it easier for the user get the best model for him.

#16 Project Title: Implement a Large Scale Image Converter In Public Cloud

Supervisor Name:

Dr. Laith Alsulaiman

Students Names :

- Waleed Albogami
- Ibrahim Bin Taleb
- Salem Bahadi

Project Description:

In this project, we will design a Web application to convert large scale of images formatting in the public cloud using services in Microsoft Azure as platform, which can help to develop the application.

The application serves those they interested to convert large scale of images. The application offers couple of choices to upload the images whether a zip file or selecting multiple files. The user has a couple of choices to get the image converted format which are JPG, BMP, PNG, GIF, and JPEG. The application helps user in reducing his time of conversion processing.





Computer Scinces Projects

Female Section

#1 Project Title: News Validation by Using Machine Learning Techniques

Supervisor Name:

Madawi Alotaibi

Students Names :

- Atheer Abdullallah Ali Alghofaily
- Arwa Waleed Ahmad Alajroush
- Rea'am Nasser Abdulrahman Alyahya

Project Description:

News articles are one of the significant electronic media, which spread globally. However, one of the disadvantages of the web is the inaccurate information, which results in confusion among readers such as manipulating people's opinions. Furthermore, navigating the same topic on different web news can be time-consuming. However, in terms of the Arabic news articles, research has not dealt with retrieving accurate news.

To our knowledge, previous studies interested in Arabic news articles focused mainly on categorizing news articles using either classification or clustering. This project utilizes both clustering and classification algorithms on Arabic web news topics to aggregate related Arabic web news topics. Clustering aims to categorize Arabic news articles that are sourced from the websites adopting K-means. Furthermore, clustering participates in elevating the authenticity of the news. The classification aims to categorize the users' input news using such as SVM in order to retrieve accurately related news articles.

#2 Project Title: Multi-UAV Task Allocation in Search and Rescue Missions for Flooding Disasters

Supervisor Name:

Sarah Mohammed Alhassan

Students Names :

- Alreem Abdulrahman Almuhrif
- Hanan Khalid Alotaibi
- Hayfa Mohammad Alshowaish

Project Description:

Death tolls from flood disasters have been increasing all around the world due to the late response. Indeed, accelerating the response by using Unmanned Aerial Vehicle (UAV) can save people's life. Recently, many researches have been carried out on multi-UAV, but none of which focused on using it in search and rescue missions in the events of a flood using flood heuristics.

The proposed project focuses on developing a simulation environment that imitates real flood disaster. In fact, one of the greatest challenges facing researchers in this field, is deciding how to allocate the search and rescue missions over multi-UAV efficiently to fulfill the urgent need to rescue people when a disaster occurs which is classified under the NP-hard problems.

Thus, this project implements and compares - in term of the number of survivors - two different decentralized algorithms, max-sum algorithm and auction algorithm, in which the UAVs are coordinating. Finally, the project will have a Graphical User Interface (GUI) to enable an efficient interaction with the system which is not found in the literature with simple parameter settings.

#3 Project Title: Brain Computer Interface Guiding Alzheimer's Patients in Muslims Prayer

Supervisor Name:

Huda Almuzaini

Students Names :

- Sara Mohammed Morshed Alrahili
- Maha Sharikh Mohammed Alsharikh
- Samia Yahya Mousa

Project Description:

Alzheimer's disease (AD) is a chronic disease that affects the brain. Thus, as Muslims, it is difficult for the patient to perform prayers independently. So, we used Brain-Computer Interface (BCI) to get Electroencephalography (EEG) signal.

We defined a system to measure the attention using insight 5 channel EEG and recording the prayer movements (Takbir), (Roko) and (Sujood) EEG signal for each. The system will help when decreasing in attention occurs, as the patient will be directed phonetically to next movement depending on the previous recorded one. First step is building prayer movements' dataset by extracting EEG, and filtering them from the noise, then extract the features using fast Fourier transform (FFT) algorithm. After that we can detect movements and classify them.

This system helps AD patients to get their attention back to complete their prayers, so AD patient can rely on himself, and this has a pivotal role improving his psyche.

#4 Project Title: Phrase Finder In Arabic Audio Files

Supervisor Name:

Lamia Mohammed Alabdulkarim

Students Names :

- Arwa Mohammed Alabdulwahab
- Bayan Bander Almsaad
- Haifa Abdullah Alqhtani

Project Description:

Phrase finder in Arabic audio files is an android application that searches in audio files to help the user to find and retrieve a specific part in the audio file. The user can record an audio file that the user wants to search on it.

Then, writes the word or phrase that mentioned in the part that the user needs and clicks the search button. After that, the application will provide all the parts and the time streams where the word has mentioned. Therefore, the user can listen to the audio from the part that he/she wants with minimal time and effort.

Therefore, Microsoft Speech API used as speech recognition tool where is the method can be divided into 4 major parts: segmenting the audio into small parts, converting the audio into text, searching for that keyword and returning the time streams where that word has mentioned in the audio file.

#5 Project Title: Students Final Grade Prediction: A Classification Approach

Supervisor Name:

Areeb Alowisheq

Students Names :

- Hanan Almulla
- Roa'a Aldoweesh
- Sarah Aldossari

Project Description:

Data mining consists of a set of techniques that can be used to analyze datasets to discover meaningful patterns, which can be applied to different areas and fields including education. In this project, the classification technique is applied to predict the student's final grade. Predicting the student's final grade supports the educational process by identifying sources of failure and critical situations before they occur.

This project aims to study the impact of including student's personal habits besides social, personal and the previous academic information on the final grade prediction accuracy, considering data collected from College of Computer and Information Sciences students at Al-Imam Muhammad Ibn Saud University who have passed the Programming II (CS141) course.

#6 Project Title: Training recommender system for students services

Supervisor Name:

Ebtisam Al-Jaloud

Students Names :

- Bushra Riyadh Al-shaeiq
- Hella Abdullah Al-Salloum
- Hessa Mohammed Al-Muhanna
- Yara Khaled Al-Tuwaym

Project Description:

It is a recommender system that solves the conflicts that might be occurred between the training unit, students and training institutions regarding the students' training course. A recommender system applies some methods to provide the best recommendation for users. In our work, a Hybrid Recommendation (HR) technique is used.

The HR solves the conflict between students and training institutions by finding the score from compare between institutions' requirements and student information. Then, present the most suitable available institution for each student. To enhance the system performance, a supervised machine learning method is used to provide better recommendations, and queuing procedure to manage the waiting list.

#7 Project Title: Access control system using Iris Biometric Recognition

Supervisor Name:

siwar rekik

Students Names :

- Ohoud Ebrahim Alsharif
- Noura Ahmad Alsaifaal
- Noura Abdullah Almudihesh

Project Description:

Biometric system is the metrics that use the human characteristic for identification and access control based on a unique features or characteristics for the individual. The biometric authentication based on computer science used to categorize the physiological characteristic of the human, for example; the finger print, face recognition, hand geometry and iris recognition. Iris recognition is considered to be a reliable and accurate biometric identification system, the system use mathematical pattern-recognition techniques on image for one or the two irises for an individual for verifying and authentication. The aim of our project is to identify a person on real time by analyzing the random pattern of the iris from some distance. The proposed technique is based on implementing an image processing algorithms to get an iris pattern code that will be used as an authorization system.

The main points in our proposed method focus in two points, these points are; using filters for removing the noise from the iris photos and after that using another filter for increasing the edge sharpen that will affect the efficiency of the mathematical recognition techniques. Also, we are going to combine different features to get new features that represent the iris photo. And after that, implementing this method in a comprehensive system for in-out employee system.

#8 Project Title:Automatic Schedule maker for University's Students

Supervisor Name:

Mai Al-Ammar

Students Names :

- Razan Al-Rasheed
- Noura AL-Yahya
- Ghadeer abuthnain

Project Description:

Automatic Schedule maker for University's Students is a system that aids university's students in arranging their own schedules automatically without any efforts and without students' intervention.

The student could give the system some constraints that he/she wants in the schedule. The system will provide all possible schedules given those constraints. To develop such schedule, the system uses Genetic algorithm which deals with scheduling problem with constraints to give an optimal solution.

The system will be developed using PHP language with a simple and clear graphical user interface. The system language is Arabic.

#9 Project Title: An Arabic Text Summarization System

Supervisor Name:

Sultan N. Qasem

Students Names :

- Fatmah Abdullah alialsmayer
- Amani Saud Alotaibi
- Afnan Abdullah alsenan

Project Description:

The project is based on lengthy texts summarized in a single short sense, through the analysis of the entire article, without prejudice to the meaning and importance of the destination.

There are two ways to summarize we used extraction methods. This method is based mainly on extracting the main sentences from the text and adding them to the summary and finding important sentences in the text, depending on which keywords are open sentences, punctuation and addresses. So we will use extraction methods with the neural network algorithm.

The principle of this project works on the neural network. When a user enters text, or copy it either by raising it to a file that is located a few sentences and the text will be divided after the move to the work of the neural network algorithm. So, that the first stage of determining what is and what kind of sentences. The second stage is the selection and finds the sentences should be included in the summary.

#10 Project Title: Intelligent Friday Khutbah Generator

Supervisor Name:

Amal Alsaif

Students Names :

- Albandri Almutairi
- Amjad Almutairi
- Mai Alturki
- Tomadur Alamro

Project Description:

The Intelligent Friday Khutbah Generator aims to help Khatibs especially the non-Arabic native speakers in constructing a well-structured Friday Khutbah. The project has two main contributions. The first contribution is building a gold-standard corpus for Friday Khutbah (Imam Friday Khutbah -ImamFK-).

The ImamFK consists of a large number of Friday Khutbah (first and second Khutbah), conducting the annotation guidelines, and developing an annotation tool. This corpus was annotated by annotators with a good background in Sharia. The agreement study is conducted to measure how well the annotators agree in Khutbah subtopics and discourse relations. As a result, the first gold-standard corpus ImamFK is constructed.

The second contribution is to define alternative templates that are used to build Friday Khutbah. Discourse relations are used to build the Khutbah structure. Finally, a web-based generator is implemented to generate new Khutbah using the user preferences on topics and required time.

#11 Project Title: An Education Arabic Sign Language IOS Application for Children: Najeeb

Supervisor Name:

Abeer Alnafjan

Students Names :

- Afnan Ibrahim Aljumaah
- Hissa Saud Alaskar
- Reem Ibrahim Alshurihi

Project Description:

Sign language is the native language of deaf/hard of hearing people as well as some hearing children born into deaf families. Najeeb is a novel iOS application that provides the opportunity for deaf/hard of hearing children learn about Islamic topics such as the ablution (Wudu), daily prayer (Salah), and supplication (Athkar) through Arabic Sign Language (ArSL). Najeeb developed in collaboration between a university-based research groups.

Arabic Language Processing and Islamic Computing (ALPIC) research group will be including Imam Muhammad ibn Saud Islamic University, Saudi Arabian foundation and the Advocacy Foundation of the Deaf.

Najeeb's features include an Islamic dictionary with animated 3D characters demonstrating the words in ARSL. Morphological Analyzers which analyze the Arabic text to show the related ARSL animation.

#12 Project Title: Books Exchanging Mobile Application with Recommendation System

Supervisor Name:

Nouf AlAloula

Students Names :

- Fatimah Alanazi,
- Lama Alsulaiman,
- Maha Al-Woheby

Project Description:

As university students, acquiring education textbooks and references is considered a difficult challenge. In addition to the effort and time spent on finding the books, cost is also a concern. This warrants a much necessary utilization of a new method that could ease the process of searching and saving resources through rapidly providing used books.

The current methods of using students' own social networks, communicating via conventional texting are unorganized solutions. Thus, we present a designated mobile application to serve as a medium between students to search for books from previous students on one hand, and provide them with the means to offer their books for borrowing on the other hand.

Additionally, a recommendation system will be provided in the application. It shall make obtaining required books easier to find for the users. Furthermore, the application must provide details regulating the flow of social interaction as ratings of borrowers.

#13 Project Title: Small Business Management Platform “BIPA”

Supervisor Name:

Lamia Alabdulkraim

Students Names :

- Rakad Alrasheed
- Ghada Alomair
- Noura Alghelleeka
- Felwa AlShaye

Project Description:

Local small business owners use social networks and messaging applications to reach out to their clients. The main drawbacks of using these applications is performing repetitive tasks such as frequently asked questions (FAQ), delayed replays, and the lack of tracking order status. Therefore, we propose an alternative approach to handle the regular procedures using artificial intelligence techniques.

A Business Intelligent Personal Assistant (BIPA): a system that consists of a conversational agent (chatbot), which is responsible for handling customer service tasks, and an intelligent personal assistant agent (IPA) that manages and schedules tasks automatically, this system will provide the tools to make the operation management more efficient.

Thus, creating a platform that connects small business owners and their customers in a flexible and efficient manner is needed.

#14 Project Title: Peekaboo Now I See You: A Traffic Analysis Attack for Identifying Users' Online Activities

Supervisor Name:

Firdous Kausar

Students Names :

- Raghad Alroba
- Sarah Aljumah
- Shorouq Alzaydi

Project Description:

Traffic analysis is a serious threat over the network. An attacker can analyze network traffic patterns to infer packets content despite that it is encrypted with the state of the art cryptographic techniques. This project targets smartphones network traffic and demonstrates to which extent such devices can be exploited as “tracking devices”.

The project aims at retrieving visited web pages, watched YouTube videos, and identifying users' activities within mobile applications such as sending a tweet or reading an e-mail. The project specifically makes use of features such as timestamps, number of bits in a peak, and number of bytes transported.

Then we demonstrate the use of such attack by presenting an application that builds a profile for specific victim, and predict their next actions, interests, probably major or job, and builds a behavioral profile of the targeted victim (e.g., wake up time, work time).

#15 Project Title: Opinion mining of books feedback using twitter

Supervisor Name:

Dr. Sarah ALHumoud

Students Names :

- Shahd Ibrahim ALjumah
- Reem Ahmed Alarrouj
- Sara Ali Alsuhaymi
- Halah Saleh Alshuwairekh

Project Description:

As it is said “A book holds a house of gold” and it is the best friend to human. However, people get really confused when they decide to read a book especially occasional people. So, they tend to get a recommendation from other readers.

Nowadays, microblogging becomes widely used for several reasons, one of the most reasons is writing their opinions about a specific topic or product, and since Twitter is the most active social network we focused on our project on Twitter to get people opinions about different books.

Our project is based on semantic analysis of Arabic tweets that contain peoples' opinions about books. Then, classify these tweets into binary classification, which is positive and negative. Also, it will display other information about each book, for instance, book's author, book's description, some tweets and the bookstore website that provide it, and this will save effort and time of the readers.

#16 Project Title: Building a Tool to Detect Linguistic Similarities Between the Voynich Manuscript Language and Arabic

Supervisor Name:

Dr. Maha Alrabiah

Students Names :

- Sarah Alsugair
- Nawader Almutairi
- Noura Alshahrani

Project Description:

The Voynich Manuscript (VM) is considered to be the most mysterious manuscript in the world due to its unknown language. Even though no one could decipher the text to its original script, some studies proved that the manuscript has a linguistic structure compatible with natural languages, and Arabic in particular.

The objective of this project is to detect the linguistic similarities between Arabic and the VM language by building a general purpose corpus comparison tool that can be used to compare certain linguistic features between the VM and an Arabic corpus, which is similar to the VM in terms of size, genres and date. A series of experimental studies were performed to compare the specified linguistic features between both languages. The results were promising, showing a degree of similarity between the two languages, and shedding the light on new aspects that require further research.

#17 Project Title: Car Control and Safety Application

Supervisor Name:

Qaisar Abbas

Students Names :

- Amjad Sulaiman Abdullah ALGhizzi
- Atheer Zaid Hamad AlFohaid
- Maram Abdullah Hamad ALEidi
- Mariam Abdullah Mohammad AlSaif

Project Description:

This project is A Car Control and Safety Mobile Application, which is a new solution for securing and controlling our cars using a smart phone application. This application will allow the owner of the car to open, close and operate it without the need of carrying a key in his pocket. We will use the existing characteristic of Near Field Communication(NFC)technology, with a special NFC reader.

The system will use Global Positioning System(GPS)to let the car owner locates his car. In addition, the system will allow the user to monitor car information automatically and stored on the cloud. To increase the application's security, we will use a fingerprint feature to validate the owner of the car and reduce the possibility of car theft crimes.

Finally, as we cannot apply our application on a real car, we will build a car model using Arduino microcontroller, NFC module, GPS Module, and various components.

#18 Project Title: Driver Drowsiness Detection System Using Arduino

Supervisor Name:

Lamia Berriche

Students Names :

- Alhanouf Almazroua
- Hana Alayayry
- Shaden Aljaloud

Project Description:

Drowsiness and driving are a dangerous combination. There are many researches and methods for distraction prevention to help drivers drive safely. However, there is less awareness of the danger of drowsy driving which increases the possibility of traffic accidents. Three different approaches have been investigated recently to detect driver drowsiness; vehicle-based, physiological and behavioral approaches.

In this project, a drowsiness detection system is proposed. The proposed system comprises three phases. First phase monitors the driver's eyes whether they are open or closed with an IR (Infrared Sensor). Second phase measures the blinking frequency and the duration of closed eyes. Finally, the last phase alerts the driver by activating a buzzer when he is drowsy. The system can monitor the driver's eyes to detect short periods of sleep. It is implemented using Arduino. The system performance is evaluated with respect to precision and accuracy.

#19 Project Title: Designing economic AI agent

Supervisor Name:

Ahmed Biyabani

Students Names :

- Hanan Marzooq Alotaibi
- Reema Mohammed Aldowise
- Hind Jaber Alfarahan

Project Description:

Artificial intelligence (AI) often involves the construction and use of rational agents capable of perceiving their environment and taking actions to reach a specific goal. In the field of economics, the stock market is a principal means of achieving specific financial goals. Buying and selling publically traded shares is no longer restricted to experienced brokers. New forms of quick trading beyond a human actor's abilities have also appeared in recent years. In order to help users, whether experienced or not, make economically rational decisions, we will build an economic AI agent based on deep learning.

Deep learning is a branch of machine learning which mimics the neocortical activity representing human thinking. It will be used to analyze historical stock price data to predict future performance and hence suggest actions that will improve profit or reduce loss for the human user.

#20 Project Title: Solving Edge Matching Problem with SAT Solvers

Supervisor Name:

Tasniem Alyahya

Students Names :

- Shehana Olayan Alsubaiy
- Hussah Saad Alkharboush

Project Description:

Edge matching (EM) is a popular puzzle discovered in the 1980s. EM asks to arrange a collection of identically shaped but differently patterned tiles so that the patterns match up along the edges of adjacent tiles. EM became famous when it was classified as prized contest.

SAT is a central problem in computing theory and mathematical logic. SAT asks if a Boolean expression is true by assigning Boolean values to variables. SAT solvers have undergone outstanding improvements. Although SAT is NP-complete, Cook proved that all problems can be reduced in polynomial time to SAT.

The project objective is to study the reduction from EMP to SAT. We aim to: (1) build a tool for encoding EMP to SAT based on the work of Ansótegui et al., (2) build an application that solves a 3×3 bounded/unbounded unsigned EM problem, and (3) conduct an empirical investigation to study the performance of the reduction algorithm.

#21 Project Title: Secure E-voting system

Supervisor Name:

Firdous Kausar

Students Names :

- Mashael owaaid alshammri
- Afrah Mohammed Atafi
- Bashayer Mubarak Adossari

Project Description:

This project is about the secure electronic voting system that aims to collect the votes through the internet rather than the traditional way that take a lot of effort and time.

E-voting is used in many countries but it is still considered to be unreliable due to the serious doubt about its security. This project aims to provide a secure E-voting system that will analyze the votes, and show the results in a convenient, secure and reliable way leading to save both time and money. Implementation is performed by using PHP, MySQL, and HTML in addition to other Client-side scripting like jQuery.

#22 Project Title: Multicast Collaborative Tool

Supervisor Name:

Lamia Berriche

Students Names :

- Noof Mofleh Al-shahrani
- Shikha Mbkhoot Al-mroul

Project Description:

Collaborative and communication between users is extremely required especially if this communication is between team members working on same files. Actually, collaborative systems are little known among the people in addition to the concept itself, leading to a series of losing time, effort and resources with large storage spaces in the servers in order to conduct work.

From here came the idea to design a system that allows users to work and edit collaboratively on the same files at the same time, the system allows users to work simultaneously without causing collision. A web-based real time collaborative text editor application is provided in this project with distinct features. Also, factors affecting the collaborative system are studied.

#23 Project Title:Robotics Path Planning Algorithm Using Metaheuristic

Supervisor Name:

Wafa alrajhi

Students Names :

- Roaa Omar Bafadel
- Nouf Ali Bakarman
- Wejdan AbdalAziz Almutlag

Project Description:

In this project, we will develop path planning in mobile robots in static environments by using genetic algorithm and simulated annealing algorithm.

Genetic Algorithms is a type of metaheuristic inspired by the human genetic genes, which is used to get a good solution as it belongs to the evolutionary. It also helps the robot to get the optimal path to reduce the turns and accessible via the shortest possible simulated

Annealing is one of the types of metaheuristic which works by emulating the physical processes cooling slowly until the stage of solidification. The aim of this project is to solve problems of collisions, lot of turns and duration of access, which makes the robot able to determine accurately the path in the shortest possible time to reach the target point. Finally, we will be comparing results of two metaheuristics: genetic and simulated annealing.

#22 Project Title: Multicast Collaborative Tool

Supervisor Name:

Lamia Berriche

Students Names :

- Noof Mofleh Al-shahrani
- Shikha Mbkhoot Al-mroul

Project Description:

Collaborative and communication between users is extremely required especially if this communication is between team members working on same files. Actually, collaborative systems are little known among the people in addition to the concept itself, leading to a series of losing time, effort and resources with large storage spaces in the servers in order to conduct work.

From here came the idea to design a system that allows users to work and edit collaboratively on the same files at the same time, the system allows users to work simultaneously without causing collision. A web-based real time collaborative text editor application is provided in this project with distinct features. Also, factors affecting the collaborative system are studied.





Information Systems Projects

Male Section

#1 Project Title: Monitoring and Tracking Student Academic Achievement

Supervisor Name:

Dr. Sayyed Maisikeli

Students Names :

- Saleh Abdullah Al-hmammi
- Mishari Jabbar Al-Ghamdi
- Mohammed Ibrahim Al-Zaaqi

Project Description:

The project being proposed is a Web application that will help teachers, students, parents and educational administrators to monitor and track students' academic achievement. This system will be a one-stop-shop for all the stakeholders to get and share information regarding students' performance and progress compared to his peers.

The proposed system is a streamlined process that will focus and target elementary and high schools to help manage their students, for parents to track their children's progress and performance, and for administrators to effectively manage their staff and resources.

The weakness of the current tracking systems we observed in the Kingdom of Saudi Arabia is that of lack of awareness of the students' academic achievement, inability to identify weaknesses on time until it is far too late at the end of the semester, leading to poor academic performance and achievement. Parents also have to physically visit the schools to discuss with various subject teachers. With this system, the school administrators and parents can take the necessary actions and formulate decisions in timely manner.

#2 Project Title: Transfer of Teachers

Supervisor Name:

Dr. Yasser Kotb

Students Names :

- AbdulMajeed AbdulRahman AlRashd
- Elmouatassim BiAllah Hennache
- Sultan Suliman Alfarraj

Project Description:

Saudi Arabia is experiencing a transition at all levels, one of the most important levels is the field of education, especially after Saudi vision 2030.

This project seeks to build a portable website which assists both of the Ministry of Education and teachers to solve one of the most important problems which is transfer of teachers from region to another region. This portable website also aims to achieve the desired teacher goals as much it is possible.

Our objectives are to develop a website which facilitates the process of transfer of teachers, contributes to reduce the time cost and save the environment by reducing the use of paper, automatic transfer, and to achieve transparency.

#3 Project Title: Learning Community

Supervisor Name:

Dr. Abdul Khader Jilani Saudagar

Students Names :

- Mohammed Naif Alotaibi
- Rayan Mogren Almhoub
- Ali Aabdullah Alzaben

Project Description:

Many students face difficulties and obstacles in pursuing their undergraduate studies. The proposed project is a web-based application that allows the student to find out the solutions for their problems.

It is a community where anyone can join, participate in learning activities. It will provide sharing experiences between educational experts and students. The proposed project will allow students, experts to rate the solutions posted by others.

It will provide financial support to the participants for the posts which are highly rated. The overall goal of the project is to build a huge learning community to assist student to find solutions to their problems.

#4 Project Title: Virtual Parking – Mobile Application

Supervisor Name:

Dr. Abdul Khader Jilani Saudagar

Students Names :

- Yasser Aldayan
- Khalid Alotaibi
- Abdulkareem Alghamdi

Project Description:

When the students drive to the university everyday they often struggle with finding a car parking spot. This can be challenging and wasting a lot of students' and faculty members' time. The idea of developing a virtual parking mobile application is to solve the students' problem in parking their cars. The user can login to the app and the app will show them which spots are available and which are busy. You can also reserve a parking spot until you reach the destination. We will be emulating the parking lot facility through QR barcodes each parking spot would be represented by a barcode.

#5 Project Title:Football Field Reservations

Supervisor Name:

Pavlos Nikolaidis

Students Names :

- Awad Hassan Alamri
- Moayed Khalid Alkodair
- Muhammed Nasser Alageil

Project Description:

The website purpose is to search and select football fields at specific areas that the customer chooses. Booking fields are done through specifying the price & sizes of the field along with preferred time. Then a payment method is created through SADAD payment system, where the user will receive a confirmation email that includes a code, which can be entered through any of the local banks to complete the payment transaction.

In both Web and mobile app, the user will be able to retrieve his booking details (number and location of field, booking time and amount) either by an email with all the information of his reservation.

#6 Project Title: Examination Paper Management System

Supervisor Name:

Dr. Muhammad Badruddin Khan

Students Names :

- Khaled Eid AlQahtan
- Mohammed Ibrahim
- Saleh Almaatham

Project Description:

Examination paper formulation is difficult job for teacher. Teacher takes care of many things while formulation of exam, for example, is the question included in current exam was repeated in the previous exam?, does another question exist with similar concept in the same exam? The Examination Paper Management System (EPMS) is a web based system that will take teacher's priority and formulate the examination paper seeing different constraints automatically.

The system will require test bank with their answers and concepts. The model answer paper will also be automatically constructed using the system. The system will also provide functionality to edit questions manually. The comparison with previous paper will also be possible using the system. The system is expected to save time of academic community and will help in producing better examination paper quickly and easily.

#7 Project Title: Shipment Management System

Supervisor Name:

Dr. Muhammad Badruddin Khan

Students Names :

- Saad Abdullah Al-Qahtani
- Faisal Turki Al-Moukirsh
- Abdullah Saad Al-Mawash

Project Description:

Shipment tracking and tracing system is one of the important elements of transport industry companies. It embodies the very great importance of customer service and very necessary for logistics management.

In this project, we will implement the web application to track shipments in real-time/ near real-time through maps. The system will provide the information associated with the shipment to the user. It will also offer pricing services and the expected time for the arrival of the shipment to destination. Customer can use online map to identify his/her location in order to guide the company to come to his/her location and to pick the shipment.

This system will allow the generation of reports that will describe the efficiency of delivery process thus allowing better accountability and improved customer service.

#8 Project Title: Fire Reporting Mobile Application

Supervisor Name:

Dr. Mohammed Saad Saleh

Students Names :

- Mohammed Hamad ALSanad
- Abdulmohsen Abdullah Alkhilfi
- Mohammed Mofarh Alqahtani

Project Description:

Fire reporting mobile application is an application that will transfer complete information about the person who will report the fire. The application will send automatically the reporter name, identification number, mobile number, location to the civil defense system.

In addition, fire intensity and image or video of the fire will be transferred. This will guarantee accurate on time movement of the required information automatically without human intervention.

This system will be linked with a website at the “Civil Defense” that will receive the reported information and directly assign the needed resource to solve the problem. This system will guarantee safe accurate on time transfer of fire reports to save time and life of people.

#9 Project Title: Islamic Preachers Management System (IPMS)

Supervisor Name:

Dr. Majed A. Albraithen

Students Names :

- Abdulaziz AlMohammed
- Saud AlSaubaie
- Khalid Alharbi

Project Description:

The project idea is to manage and control preachers' information and tasks at the Ministry of Islamic affairs. Preachers can both use the system to send request to conduct a lecture and including all information as lecture's time, date, location and title of it. After that one of the ministry's branches will receive preacher request and reply for it with approval or rejection.

In addition to that the branch will use the system to contact the preacher and send instructions to conduct lecture after receiving requests from who interested with that lecture.

Occasionally the system will remind the preacher if it has a long time since last lecture. In the end ministry of Islamic affairs will use the system to manage and update all operations.

#10 Project Title:Auto Trade Vehicle Management System

Supervisor Name:

Dr. MajedA.Albraithen

Students Names :

- Abdullah Ali Alasqah
- Omar Abdulaziz Bin Safyan
- Amjad Abdullah Almtuairi

Project Description:

The idea of the project is to develop a web site for advertising vehicles for sell. This website will serve both the sellers who intend to sell his/her vehicle and the buyer who is looking for such product by allowing the buyer to search available vehicles based on set of criteria such as color, model, price ..., etc.

Our proposed project requires the sellers to register in addition to make some payment for such service. The payment amount mainly is predetermined based on the length of the advertising that the sellers are looking for. Thus, they can access their account by uploading different vehicle information as well as photos.

The main idea for our project is to allow vehicles' buyers to determine the location of the vehicle (distance of the vehicle). The visitors of the website (could be buyers) will be able to search and view the available vehicles without any need to registration.

#11 Project Title: Riyadh Services Map

Supervisor Name:

Dr.Yasser Kotb

Students Names :

- Abdul-Aziz Aali Ali
- Yasser Almukhlifi
- Moath Alkathery

Project Description:

As the mobile applications are a great event in information technology, we suggest building a mobile application that will help and support all people inside Riyadh city, Kingdom of Saudi Arabia. The suggested project is called a “Riyadh Service Map (RSM)” that will depend on the Digital geographical map.

The RSM will be designed to facilitate the process of identifying vital places easily and smoothly. So we will intend to establish, develop and operate the technology zones in partnership with the private sector, enabling us to provide integrated services that meet the needs of investors, to contribute the community of development, and preserve the environment.

Because of the Riyadh city is biggest city in the Kingdom of Saudi Arabia and have multiple zones, we aims to build our application using Six zones only as a first version of Riyadh Service Map application.

#12 Project Title: F.I.T Flexible Innovation Training

Supervisor Name:

Pavlos Nikolaidis

Students Names :

- Abdullah Ali Alasqah
- Omar Abdulaziz Bin Safyan
- Amjad Abdullah Almtuairi

Project Description:

The majority of fitness customers subscribe to two or three major fitness chain companies which actually keeps other small gyms out of competition by holding a large market share.

The business approach of this mobile application is to unify the rest of these gyms by providing them a software platform where they can become one big chain and meet efficiently with their customers and therefore be equal competitors to large fitness chains.

By applying this project the customers will have the opportunity to switch among multiple gyms, find a gym wherever they travel and take advantage of each gym's best features all in one subscription.

#13 Project Title: My Medicine

Supervisor Name:

Pavlos Nikolaidis

Students Names :

- Riyan Asery
- Abdullatif Hamed
- Sultan Al-Sultan

Project Description:

“My medicine” is a website application which helps patient or regular user to search and find, in the best way possible, the medicine or pharmacy product necessary.

We observed that some patients take too much time to find the right medicine in the right place. “My medicine” provides a web app and mobile app as one unified IS platform needed to improve this process of searching.

Depending on three basic factors like price, location and quality of communication the pharmacies managers using the web app and the customers using the mobile app will appreciate the easiness and effectiveness of this platform in handling information for all stakeholders.

#14 Project Title: Event Invitation Management System

Supervisor Name:

Dr. Mozaherul Hoque Abul Hasanat

Students Names :

- Muaadh Al-Dakheel
- Saad Al-Otaibi
- Saad Al-Mutairy

Project Description:

Managing large events are difficult, particularly when the seating capacity is limited.

This is an event management system to manage guest attendance in large events. The system will have web-based interface to create the guest list, generate invitations with unique QR-codes and a dashboard to display detailed statistics about the attendance in the event.

The system will also have a mobile based app with the ability to read QR codes of the attendees and validate them against the list of invited guests.

#15 Project Title: Parking Management System

Supervisor Name:

Dr. Mozaherul Hoque Abul Hasanat

Students Names :

- Muhammad Al-Wateed
- Mishary Al-Shahrany
- Mughem Al-Mughem

Project Description:

This project aims to find a suitable solution to the parking management problems in parking facilities such as, allowing only permitted vehicles, managing parking space availability, and identifying any vehicle inside the parking area which has somehow entered without permission.

The system makes use of QR code technology to control access to the parking facility and detect vehicles without proper parking permits. The system also uses ultrasonic sensors to keep track of available parking spaces. Parking security officials will also have access to mobile interface of the system to read the QR coded parking permits of vehicles already parked to ensure the validity of their permits.

#16 Project Title: Seminars Management System –Ministry of Islamic Affairs

Supervisor Name:

Dr.Majed A. Albraithen

Students Names :

- Waleed Mohammed Al-Moturi
- Saud Abdullah Alzeer
- Ayadh Awdh Al-Otaibi

Project Description:

The project is a mobile application that can be downloaded and installed on any Android platforms. It will help to spread Islamic awareness among people by affording them some beneficial services. It will have a huge DB of religious lecturers by officially registered Islamic preachers from all cities of Saudi Arabia and officially accredited by the Ministry of Islamic Affairs.

The application provides the user with a schedule presentation of lectures, and access to information about preachers. The main feature of the application is its ability to help users get the location of any forthcoming lectures as well as to know easily how to get access to these lectures using active Google Maps feature.

The application also enables all users to listen to lectures at any time and from anywhere. The application interface will be bilingual (Arabic and English) however the lectures could be in any language such as Arabic, English, Urdu, ... etc.

#17 Project Title: Web-based Tourists Guide Management System for KSA

Supervisor Name:

Dr. Mohamed Saad Saleh

Students Names :

- Abdullah Salem Alsubhi
- Khaled Ali Almousa
- Yousef Salem Almaghrabi

Project Description:

This project is about developing a system for helping tourists that willing to visit the Kingdom of Saudi Arabia. The suggested system will work as guidance for the tourists to discover and easily reach the most important places in the region around them.

In this project, the tourists can search for plenty of places they are willing to visit inside Saudi Arabia. These important places are categories as entertainments, heritage, historical, Islamic and modern.

Also, the tourists are able to add reviews and ratings after visiting these places. In addition, they could sort these places depending on the ratings by other tourists. Furthermore, this project will help tourists that visit Saudi Arabia for the first time in finding the directions to reach the locations with the help of Google Maps.

The tourists will enjoy using the system, instead of depending on search engines like "Google" or "Bing" to discover the places which will waste their time and effort.





Information Systems Projects

Female Section

#1 Project Title: My Charity

Supervisor Name:

Rawia M. Bin Sheha

Students Names :

- Khadraa Alqahtani
- Batoul Aleidy
- Shroug Alenzi

Project Description:

Islam religion recommends charitable work as it is beneficial to the society and to the individual. For that reason, this project aims to take advantage of technology in charitable and humanitarian work by creating a website, that main objective is to serve charitable and humanitarian work.

The website provides services for donors and people in need. Through the website, donors can donate clothes, furniture, other in-kind donations, and reserve an appointment via the website to donate surplus food. Also, the donors can take out their zakat through the website. People in need can choose from the clothes and furniture displayed from donors. Volunteers are the linkage between the donors and people in need when they take donations from donors and deliver them to people in need in a confidential way. As well, this project provides a guide for Saudi charities.

#2 Project Title: Bills Wallet

Supervisor Name:

Dr. Bader Aljaber

Students Names :

- Amal Abdurahman Al-Mohawes
- Rawan Abdulaziz Al-Suwailem
- Maha Mohammed Al-Atifi

Project Description:

The people find it difficult to save their hardcopy bills and guarantees, because of the huge number of bills that normally people keep. Having said that, some people also struggle to handle the hard copy because of their age or special needs.

This issue triggers the Bills Wallet application which could help users to organize their bills and guarantees in categories. That can be done by scanning/inserting the bill information through the application. After that, the application will remind customers before the return or exchange deadlines, and allow customers to manage their bills and share experiences based on their interests.

In addition, the application will allow shop owner to contact their customers and send notifications if necessary. Our application has advantage on the environment by saving trees when reducing the paper consumptions. To conclude,

This project will help people to take advantage of the bills benefits by converting the bills written in a hardcopy paper into digital bills which is easy to carry and access to it.

#3 Project Title: Exchanging Needs System (ENS)

Supervisor Name:

Haifa Abdulaziz Alhusaini

Students Names :

- Batool Khalid Almousa
- Tahani Fahad Albadrani
- Sara Khalid Alluhaidan

Project Description:

ENS is a web application that acts as a gate between people and disadvantaged people, also between people who have small business and sponsor who can support the business financially so it can start successfully.

The system allows the user to upload a donation with a picture and description, so the disadvantaged can take what he requires freely by contacting the person who owns this item.

The web site offer wish list feature; if the disadvantaged needs something that is not available in the website they can request it. So, it will be browsed in the wish lists section and any one can see it and provide it to the disadvantaged. On the other side, the system provides business support section. The disadvantaged can choose from two available options: either financial support to have a support from a sponsor or advertising support so the business will display at an advertisements page in the website to help the business gaining more customers.

#4 Project Title: Design Your Home Application

Supervisor Name:

ReemAltowaijri

Students Names :

- Ashwaq alshahrani
- Atheer alshamrani
- Durah Aldhuayan

Project Description:

Choosing the appropriate furniture piece is a problem; “Design Your Home” is an Android mobile application that helps a user in the decision making process when buying a furniture. The idea of application is: Capture picture of room and enter the height and width of the room or choose an empty room templates. Then take a picture of the desired furniture, then the application compares the captured furniture with the furniture images stored in the database as 3D, then the application displays pieces furniture similar to the captured furniture and allows using it. Then the user will install the chosen piece of furniture on the room to show the final image of the room in 3D technology.

Also, this application has other properties where the user can change the color of the wall or the floor. Finally, displays information about the most famous furniture stores in Riyadh.

#5 Project Title:Teacher helper

Supervisor Name:

Haifa Abdulaziz Alhusaini

Students Names :

- Hessa Jfeen ALqahtani
- Dalal Muhammed ALdosari

Project Description:

Teacher helper is a mobile application that works on the Android operating system. It helps teachers or instructors in managing attendance and absence of students. It should help in recording attendance and absence of students by fingerprint or barcode for each student. Then every student can view attendance sheet for the whole semester. It can also help the student to scan the excuse of him/her if he/she is absent and send it to the teacher by the application. If the excuse is acceptable, it is automatically corrected from red (absent) to green (attendance).

It sends an alarm message to students who approached the number of allowable absences time. Teacher helper project aims to manage the attendance of students, presenting absence causing and saving time and effort of teachers and students.

#6 Project Title: Baby's Health Tracker (BHT)

Supervisor Name:

ReemAltowaijri

Students Names :

- Aesha Hawas Alshammari
- Ghayda Alzoman
- Fatma Alsalem

Project Description:

Tracking baby's health is necessary to detect any illnesses early and keep baby growing without health problems. Parents need to be aware about their baby's health. With parents' busy life, baby's vaccines, pediatrician appointment and baby's health notes are exposed to being forgotten.

The Baby's Health Tracker project aims to facilitate, aware, help parents to track their baby's health by using a smartphone application. The application provides notification for baby's vaccines and pediatrician appointments, growth chart and awareness information about baby's food. Also, it provides illness history, which allows parents to record notes and medication that the baby take.

#7 Project Title: Shopper Helper

Supervisor Name:

Hanan Alwadi

Students Names :

- Abrar Abdulaziz Almadi
- Noura Ali Almutair
- Haya Abdulaziz Almoghamis

Project Description:

The shopper helper idea initiated after seeing shopper waiting in long queues to buy their needs so they mostly leave the store and left their purchases and this is due to the long wait line. This project aims to solve this problem by developing an android base application that helps the shopper to purchase and serve electronic and traditional shopping. Shoppers can shop by scanning a barcode existing products inside the store or from the advertisement magazine of the company where the shopper can choose the quantity of their purchased and added to the cart. Also, the shopper can create, delete and share list with his friends through WhatsApp.

The application also provides home delivery service by allocate shoppers location. To make shopper experience more effective and take less time.

#8 Project Title: Graduation Project Connect (GPC)

Supervisor Name:

Dr. Lujain Aldahash

Students Names :

- Nada Humoud Almalki
- Shroq Eid Albogami
- Mai Ahmad alghanem

Project Description:

Currently, Graduation Project 1 GP1 Coordinator, Supervisors, and students face difficulties in completing GP1 initial tasks in an efficient way. These initial tasks include proposing an acceptable idea for the graduation project, starting and creating groups, and allocating supervisors with groups.

The Graduation Project Connect GPC Project provide an environment for GP1 coordinators, supervisors, and students in the IS department in the girl's section to connect and perform the GP1 initial tasks more efficiently. It is a website that enables GP1 coordinator to coordinate the initial tasks easily, and enables students and supervisors to search in previous projects uploaded by GP2 students to avoid redundant projects. It also provides an environment for the GP1 students to connect and enable them to easily form into groups and avoid redundancy in proposals.

#9 Project Title: My Design Website

Supervisor Name:

Salha Al Otaibi

Students Names :

- Maha Al Azmi
- Haneen Al Ghamdi
- Abeer Al Assiry

Project Description:

My design is an e-commerce website in Saudi Arabia, a platform for designers, artists and sculptors to sell their products and offer their services in designing a creative new ones for customers to satisfy their demand in one place for art conceivers and those looking for unique gifts to find.

This website works as a mediator between designers and customers, easing the communication, and being commercial dealer in offering payments online and delivery for customers. All art works will be marked by the website's logo for copy rights.

#10 Project Title: ImamU Teacher Schedule

Supervisor Name:

Albatoul Althiunyan

Students Names :

- Abeer majed aldawish
- Maryam saad alqahtani
- Batoul fahad alrashed

Project Description:

“ImamU Teacher schedule Application “ is an application that view Teachers schedule, make them available to students, and allow communication between faculty members with each others and with students. It display teacher information such as schedule, status and Office’s Hours, especially helps new students. When a student scans the teacher barcode, it will open teacher Information. He also can add the teacher to see his information at any time. It will be updated automatically.

The application allows students to know where the teacher by the class number shown in the schedule. Student can send questions through the public chat; it can solve the traditional way of waiting the teacher’s. Faculty members can also determine the dates of the meetings easily.

#11 Project Title:Kalbunyan

Supervisor Name:

Hanan Alwadi

Students Names :

- Amjad Obidullah Alenazi
- Alaa Saad Almushawh
- Ashwag Munahi Alotaibi

Project Description:

Kalbunyan is an application that serve the blind people, the more problems that faced the blind is the total depend on the family and the friends in his daily life to find observer in the study or others needed, also the family and the friends having difficulty in search for an observer, so Kalbunyan application will facilitates the communication with the observer bay amount of money or with the volunteer to observe with him to study or a hospital appointment.

Also determination of al-qibla direction by the voice so it will reduce the pressure on the family or the friend and will be able to depend on his self in request observer or volunteer and commination with him, also will enhance his morale and will be able to communicate with society, and also will help in spread the volunteering culture, values and principles in society. The kalbunyan application runs on IOS device by voiceover for blind.

#12 Project Title: MediOrganizer

Supervisor Name:

Alanoud Alotiabi

Students Names :

- Aseel saeedaldosari
- Nout Mohammed alqahtani
- Reem abdullah alaskar

Project Description:

The multiplicity of concerns of life can make the person forget important and critical things such as taking care of patient by remembering the medicine doses exactly. From that point, the idea of make an application to support the caregiver in taking care of the patients has been inspired.

MediOrganizer is one of the solutions that aim to help the caregiver in giving the right medicine at the right time to the child. The project will provide users with a useful piece of software in English language that has many features such as: notifications and pop-up message to be send to caregiver's phone upon the medication time and more information about the medicine dose, the user can create more than one patient account, the user can edit profile and medicine, the user also can view the medicine schedule with a categorical view etc. . Also, the application has the feature of work on any device that supports Android OS.

#13 Project Title: The Creative Mind

Supervisor Name:

Rawia Bin Sheha

Students Names :

- Alhanouf Mohammed Al-mouhrij
- Jawharah Saad Al-mutairi
- Norah Abdullah Al-sugair

Project Description:

Nowadays many people in organizations have creative ideas to solve any kind of problem. However, sharing those ideas among the organization and the communications with the key people to coordinate meetings and collect their feedback could be a challenge.

Therefore, a lot of very good ideas could be lost or perhaps be forgotten and that will lead to a lack of the organization improvements. For those reasons, we are thinking about an Android mobile application that has modern, automated and creative ways to help the organizations.

The application is an electronic system that allows the organization to have a completed system to collect, manage and share ideas. That will ease up and improve the process of getting creative ideas from different members.

#14 Project Title: Imam University Guide

Supervisor Name:

Albatoul Saleh Al-Thunayyan

Students Names :

- Aseel saeedaldosari
- Nout Mohammed alqahtani
- Reem abdullah alaskar

Project Description:

Imam University is one of the largest universities in Riyadh. And it conducts a lot of event programs. However, there are a lot of challenges people faces while they are inside the campus. One of the primary challenges is navigation throughout the university campus, they have to rely upon traditional way of asking people about directions, who may give inaccurate answer, which results in waste of their time and efforts.

Given the challenges, the project came up with an innovative idea of introducing An Android application to resolve this concern. This application provides them with a list of the necessary places in the university like (employee's offices, restaurant, and class rooms). This project is important to the users, it let them have a free navigation inside the university and as well guide them to their destination.

#15 Project Title:Jamatna

Supervisor Name:

Alaa Menshawi

Students Names :

- Alhanouf Ali Alzaben
- Doa'a Ebrahim Alsubaihi
- Reem Abdulrahman Alsuqaih

Project Description:

In recent years, technology serves as the key for helping people communicate and interact with each other. Social gathering is very important and technology cannot replace such activity yet it can be used to facilitate it. Sometimes people are hindered to initiate a social gathering due to the problems they face in organizing family and friends' gathering. From here; the idea of this application has been initiated.

Jamatna Application provides a mobile application that facilitates the initiation and coordination process of social gathering. It distributes expenses among participants showing how much debit and credit for each one. The application allows users to vote for their attendance, share gathering location, coordinate their tasks, share responsibilities, and manage gathering needs.

It also allows people to communicate with each other in a form of group. During the gathering, Jamatna application can play the role of locating the nearest hospital or restaurant to the current location.

#16 Project Title:E-Invitation

Supervisor Name:

Reem AlTowaijri

Students Names :

- Hind Abdullah AlQasem
- Sara Ali AlHwairini
- Sara Mohammed AlSubaie

Project Description:

The Android mobile application allows the user to create and distribute invitation cards electronically, with each card containing a unique Quick Response Code that is scanned in an entry process. It also works with a person's phone number, using his address book to easily connect with his contacts who have the application to send it to them. It also notifies guests about the event a day before it as a reminder.

The guests can then either confirm or apology for not attending the event, which gives the sender an estimate of the number guests that are attending the event. The location of the event is attached within the e-cards to arrive at the location in an easy and fast way.

#17 Project Title: Al-Saba Al-Mathani

Supervisor Name:

Mona Alsharani

Students Names :

- Alaa Musaed Alothman
- Khluod mohammed Alhaidary
- Nouf Khalid Aldhafiri

Project Description:

Surah Al-Fatihah is the greatest Surah of the holy Quran. It has an essential role in Islamic prayer. Therefore, we chose to create a website that corrects Tilaawah (recite) and Tajweed of Surah Al-Fatihah. Al-Saba Al-Mathani website helps users to memorize and recite Surah Al-Fatihah at the convenient time for the user.

The user can listen to Surah Al-Fatihah by choosing favorite reciter, understand Surah Al-Fatihah words, Tafseer and watch to the explanation video of Tajweed rules. It, also, allows user to record an audio clip of his/her Tilaawah and send it to the teacher who corrects the user's Tilaawah mistakes, evaluates user and responds by audio recording contains corrections. All of those can be shared with other users to learn from mistakes.

#18 Project Title: Mobile Application for Reserving and Advertising in Exhibitions

Supervisor Name:

Salha AlOtaibi

Students Names :

- Asma Mohammad AlAhmad
- Arwa Abdullah Alhabdan
- Ghada Salah Alhadlaq

Project Description:

Ma'rade is a mobile application developed to run on the Android smartphone. This application is an intermediary between organizing institutions, merchants, and visitors; it aims to accumulate information on all exhibitions in Saudi Arabia in one place to facilitate inquiries by those interested in the exhibitions. This application provides many features for different groups. It helps organizing institutions advertise their exhibitions with full details (i.e., date, time, location...etc.). Merchants can choose the appropriate exhibitions and reserve booths by types and prices.

Also, Mar'ade facilitates searches for exhibitions by category (e.g., chocolate, jewellery,...etc.). In addition, the application enables users to share advertisements of exhibitions with other people, add exhibitions to favorites list, and add the exhibition date to a calendar. Finally, the application provides evaluations of organizing institutions that help merchants and visitors choose appropriate exhibitions that are organized by the best institutions. This application saves time and effort because merchant may submit a reservation form at any time, from anywhere.

#19 Project Title: Capsule

Supervisor Name:

T.Alanoud AlOtaibi

Students Names :

- Mudi Abdullah Alghannam
- Noura Mohammed Almasoud
- Wijdan Saleh Alhowaymel

Project Description:

Capsule is a mobile application which operates on an android system. It is developed to meet the user's requirements and can be used to search for information regarding medicines or medical product information. In addition, the user's current location could be determined to locate the nearest pharmacy that provides this medicine.

Also, the company pharmacies can register an account, add their pharmacy information (name, location, branches ...etc). Their pharmacy branches' location could be determined by using a GPS service. This project aims to provide the easiest way for the user to access reliable information concerning medications. This would decrease the search time for pharmacies that provide these medications and increase the profit of some unknown pharmacies.

#20 Project Title: Ibn Battuta: An Intelligent Traveler Guidance

Supervisor Name:

Alaa Mohammad Menshawih

Students Names :

- Rana Ali Alomran
- Nada Mushabbab Asiri
- Wadha Fahad Aldriawish

Project Description:

Ibn Battuta is a mobile application helps travelers to customize their trip schedule to match their needs. It provides a customized trip schedule for a travel journey in short time by developing an intelligent algorithm that addresses traveler's needs. The application takes advantage of building the daily schedule for the traveler based on the shortest distance between tourist attractions to save traveler's time. In order to have a cost-effective plan; attractions with discounted offers have the highest priority in inserting attractions in the schedule in discount period.

Moreover, type of attractions preferred by travellers (e.g. countryside, seaside and city centers), time dedicated for each type are deemed in the building process. The most recommended places and landmarks are given high priority as well. Ibn Battuta applies the idea of ubiquitous computing by tracking traveller's location and informing him/her about the recommended attractions around them. In addition, travelers are able to communicate and search for up-to-date about a specific destination.

#21 Project Title:Your Product in Save

Supervisor Name:

Mona Jubran Alshahrani

Students Names :

- Rawaby Khalid Alsaaid
- Sarah Mohammed Alrobaish
- Munira Mohammed Alhussan

Project Description:

The number of social media seller rapidly increasing that creates a need to more delivery men to deliver their products to the customer. Your Product in Save is an android application that works as a platform to gather both delivery man and social media sellers.

The application facilitates the delivery process to customers by saving the seller's time and effort in searching for available delivery man. It also, provides a chance for the delivery men to increase their income.

#22 Project Title: Dress Simulator

Supervisor Name:

Mona Alshahrani

Students Names :

- Arwa Musaid Altayyar
- Shihana Lafi Alharbi
- Areej Saeed Alshahrani

Project Description:

Dress Simulator system is a subsystem of bride dress store, which is engaging brides' visual sense in the shopping experience. The system provides a new technology called Augmented Reality that visualizes the bride's dress on her body just as in real life by using web-cam that captures the bride's body and displays the dress on it in the screen, which will increase the bride confidence and satisfaction.

It stores the body measurement of the bride in the system. By using this technology, we can reduce the brides' effort and time while she is trying different options. Also Increase the quality and efficiency of online shopping by choosing a dress so easily in a short time. The system provides an E-catalog with an option-filtered search, which displays the dresses depending on the bride budget range.

#23 Project Title:Let's Challenge

Supervisor Name:

Dr.Areej Alhogail

Students Names :

- Amani Khalid Al-Osleb
- Sarah Hussin Al-Qahtani
- Shroog Saeed Al-Shamrani

Project Description:

Let's Challenge is an e-learning application that is dedicated to children with Learning Difficulties (LD) of Attention Deficit and Hyperactivity Disorder(ADHD) in order to help to improve their situation.

The application takes care about learning and development in Arabic Speaking children less than eight years of age. The application consists of two sections for LD child and LD child's sponsor. Interfaces proportionately designed that connect the LD child's sponsor through his/her page with LD child. On the other side, it provides educational links to sponsors about ADHD situations.

Let's Challenge application include the major activity for children. First, audio story to improve the level of Attention Deficit(AD). Second, for the learning side there is educational board attached with video about common numbers and letters that are known to be distract by ADHD children .Thirdly, the interactive game to raise the interaction of Hyperactivity Disorder children.

#24 Project Title:Core Health Care

Supervisor Name:

Dr. Areej AlHogail

Students Names :

- Atheer Almohiemmed
- Raghad Alhejji
- Basmah Alghamdi
- Ajaib Alotaibi

Project Description:

Nowadays many areas of our lives have been transformed by advances in ICT technology. However, a basic and common need for many people in the health industry is to ease information access and communication between patients and medical staff.

The project aim is to design and implement an application that increases automation and streamline of information between the two parties. We hope to eliminate many of the human factors that are contributing to those problems such as telephone delays and inaccurate information communication.

This project will be piloted with some hospitals in Riyadh. In Summary, the application will deliver a number of features such as: select and display hospital information, book or cancel an appointment, communicating with doctors, retrieve patient file, call an ambulance, upload the lab tests and radiology reports, and a variety of services.

#25 Project Title: Patient status

Supervisor Name:

Hanan alwadi

Students Names :

- Haifa Abdulla Alalawi
- Amal Saeed Alzahrani

Project Description:

Nowadays many patients are forced to hospitalization for several days because of health conditions, so it may be difficult for parents to visit them daily for study or work conditions or other reasons. Also many hospitals do not respond to the phone when they call to inquire about the status of patients due to work pressure.

Therefore, "patient status" app is an android application through which to enter the case of the daily condition of the patients they have admission in the hospital by a nurse supervising them instead of the traditional way and updated daily and alert them if his condition worsened.

This App found to make it easier to know the patient's condition by family and friends also facilitates communication between the nurse supervising the patient and the family of the process through inquiry or direct call. Moreover, the application also makes it easier for the doctor to know the priority for patients while taking care of them.





Information Managment Projects

Male Section

#1 Project Title: Web based Electronic Clinic

Supervisor Name:

Dr. Bandar Almubark

Students Names :

- Abdulelah Alkhathami
- Sauod Alsubaie
- Ali Alyahya
- Zayed Alsubaie

Project Description:

Website for hospitals will enhance all related relationships and reduce the paper use. The patient will be online every time to his medical history and medical reports from the web and gives the ability to make appointments from the internet without going to the hospital.

#2 Project Title:Idle Lands System

Supervisor Name:

Dr.Abdullah Alshaya

Students Names :

- Meshal Alotaibi
- Ibrahim Alqahtani
- Abdullah Salman Almutairi
- Moataz Anzi

Project Description:

Draft rules issued by the Ministry of Housing serve about Idle Lands The project provides an inventory of the number of Idle Lands and the value of the fees over all the land according to the area through the icons allows the user to add the land owned by him and locate the map by the ministry in order to be able to account for all the Idle Lands.

#3 Project Title: Web-based Final Year Project (FYP) Management System

Supervisor Name:

Dr. Shariq Bashir

Students Names :

- KHALED HANTOL
- FAISAL AL JOHANI
- Abdulaziz AlQahtani
- Saud Almenged

Project Description:

The aim of this project is implement a web-based FYP management system that will provide a facility for making coordination between supervisors and students such as floating project proposals ideas between supervisors and students, selecting supervisors and project proposals, choosing examiners, submitting and tracking project reports.

#4 Project Title: Spammers Detection within Arabic Hashtags in a Twitter

Supervisor Name:

Dr. Tayeb Merabti.

Students Names :

- Abdullah AL-Dwish
- Abdullah bin Owis
- Abdullhadi AL-Qahtani
- Omar AL-Zammam

Project Description:

With a simple interface where only 140 character messages can be posted, Twitter is increasingly becoming one of the most popular microblog services. When an event occurs, multiple users tweet about it and the event quickly becomes trending topics. Using the hashtag trends, spammers post tweets including these hashtags but also unrelated URLs. This tweet reduces the value of real time search services. There are many objectives by using spams in Twitter, such as advertising, viruses, phishing,....

In addition to intoxicate and pollute the real time search, they also hamper statistics used and displayed by tweet mining tools.

The objective of this project is to detect spammers on Twitter using content and behavior techniques. Methods will be used to detect spammers within trend hashtag in Arabic.

#5 Project Title: General Entertainment Authority application

Supervisor Name:

Dr. Mohammed Ali Alshara

Students Names :

- Khalid Al-Otaibi
- Abdulkreem Al-Sadoun
- Farhan Al-Dhargam
- Nasser Al-Shahrani

Project Description:

In this project we hope to cover a gap in the need for them country so we provide application serves the country and visitors sons so that this application put entertainment venues and entertainment for citizens and visitors from outside the kingdom of saudi so that any user to choose where it needs and find out all activities include festivals and places of heritage and theaters in different cultures and places of entertainment from parks, restaurants, and amusement for families, children and youth, gardens and pools of various new ideas and so are putting pictures and Vdyohat her and talk about its definition and also put its numbers and to communicate with them and put a link to them and the dates set up to provide other ideas in this application.

#6 Project Title: Graduation projects Databases

Supervisor Name:

Dr. Ahmed Alobiadallah

Students Names :

- Bassam Aljuraysi
- Taric Alanazi
- Abdulmalik Alotaibi

Project Description:

A developed database that will contain only the Graduation projects and categorize it for each specification, the main feature in this database that it will have a textual similarity function that will determine if the project is duplicated or even similar to another project based on the description or the actual content

#7 Project Title: Mobile maintenance

Supervisor Name:

Dr. Abdul Hamid Al-Sulaiman

Students Names :

- Abdulaziz abdullah Alasmari
- Ali Mohammed Al Otaibi

Project Description:

Our project idea is to build a web site to manage mobile maintenance by registering and login to our website to create a user on our website. Our website have information about all the most common mobiles and the expected problems and their solutions to facilitate for the user to know first the details about his own mobile he want to fix it .

There is a content in our website that can be managed by the administrator from adding , updating , deleting necessary information for every mobile and the problems sent for maintaining the website and their solutions. After that he can send a message to the help desk team to solve his problem and the team can reply to his message with a solution to his problem or message by a messaging system or by calling the user problem for his problem to solve it with less time.





Information Managment Projects

Female Section

#1 Project Title: My book

Supervisor Name:

Alia alulaimi

Students Names :

- Amani alfaifi
- Wafa alsanea
- Fay otaibi
- Aliyah Alrashidi

Project Description:

The project is an application that searches the bookstores for the book required by: Attach the picture of the book by converting the image to text, and then show the list of stores that have this book and the locations of these libraries near you and with some other features such as Book price and simple information about the book and some other services :

- 1 -like online purchase service
- 2 . Evaluation of the book
- 3 -List of new books in the library
- 4 . Users can also sell their books

This is the idea of the project in general

#2 Project Title: Global market

Supervisor Name:

Dr. Ahmed Alobiadallah

Students Names :

- Hessa Ali Almohimeed
- Wafa Alatallah
- Njoud Alrajeh
- Seham Almalki

Project Description:

In the past few years there are more people accessing the internet using phones and tablet. So, more applications are needed for many e-shopping that providing the convenience of shoppers and offering the best choices. In our project, the mobile app works on the link between e-markets for customer. The apps harness technology that automates the process of searching and comparing results from many shopping websites through a user-friendly interface and simple.

The shopper can searches for the goods in more than the e-shopping site by displaying the result to the shopper. The shopper shows the name of the site that provides these goods and their price in each site provided by the goods and payment method used in the site with the possibility of opening the link to the product page. The mobile app is available in a huge variety of web languages such as Javascript, css, php and html, which work on Android Platform

With more ways to get comprehensive information, more accurate and complete guidance, and compare goods options from many e-shopping sites on one simple screen. So, this application works on save the time, effort and money.

#3 Project Title: Buses check-in

Supervisor Name:

Fatima Aba alkhail

Students Names :

- Noha alhashemi
- Ashwaq almohammadi
- Khoulod almohammadi
- Million alotaibi

Project Description:

Supervisor of university buses check the buses data that entered parking.. Due to inaccuracies that may occur by filling traditional check-in form of buses, we work on the application that have placed Barcode device at buses parking entrance. The Barcode device scan the barcode of bus that entered the parking then send it to application. This application help to check the entered buses to parking in accurate and fast way. Also, if the bus did not check in to parking due to some reasons such as broken, the application will send alert. Moreover, the application provides GPS service to check the bus location in case of delay or damage. Thus, the application can use in all parking , not only for universities.

The benefits of the project as follows:

- Facilitate work on the employee instead of manual preparation.
- speed in the preparation of buses
- avoid errors that may occur when the buses prepare manually.

#4 Project Title: Locate my Car

Supervisor Name:

Dr. Areej Alaskar

Students Names :

- Atheer Altuwijri
- Sara Alshammari
- Gadah Aljaloud
- Hala Alamaj

Project Description:

It's an application for the hired private drivers that serves the families and individuals through helping them locating their personal drivers by providing GPS technology for precise location determining and other features like (determine the fastest route, Approximate arrival time, linking the plate number with application).

As this application gives the user the ability of knowing where their driver is, and how long will he take to arrive to them. Moreover this application will help reduce the huge traffic of crowded cars at malls or universities. Also, the application gives the ability to view and to extract reports about the connected car and about entering and exiting certain location by the car. In addition, it allows the personal driver to send the current location to the system automatically to be viewed by the corresponding family/individual .

#5 Project Title: For you” Application To Discovery and Report Abandoned wells

Supervisor Name:

Dr. Maha Al khathami

Students Names :

- Amjad alsanid
- Roaa albader
- Maha alshammari
- Asma alharbi

Project Description:

We have certainly heard of incidents of people falling into wells. People have been digging wells to get water but if the availability of water is scarce or none, wells are seen to be left and these neglected abandoned wells without being backfilled may cause a great danger to the lives of people. To solve this problem that many people face, the idea of an application that will assist in finding and contacting responsible authorities to backfill these abandoned well and to caution the locals of the availability of these abandoned wells in the neighborhood has been put forward. This application has been selected to help people locate neglected wells, avoid them, help the competent authorities to find out where the well are and assist in demolishing them.

The application is launched by the name “For You”.

Through this application you will be able to upload notifications about the open and neglected wells in public and unknown places. It is done through this application by entering some data such as the name of a city, detect location on the map and illustrate some data or some evidence of the place and problem.

Notifications may be published through social media. Through the application the date and time of notifications are clarified and a number is generated for tracking purposes and checking the progress of the complain . The application also provides help and instructions for taking care and caution against falling into wells. And the facility to be in contact with the authorities through the application.

#6 Project Title: Riyadh Bus Catcher

Supervisor Name:

Dr. Maryam AlOshan

Students Names :

- Haya Al-Shiban
- Fatima Mousa
- Sukaina Al-Barqawi
- Ghadah Alogayel

Project Description:

One of the hardest things happening to people using the bus service is running down the stairs at bus station only to see their bus pulling away from the station. Some of the common feeling users will have is anger, and anxiety when that happens. But (Riyadh Bus catcher) app is real-time alerting system that give users an accurate prediction for when the next bus will arrive at the station. The app makes use of GPS trackers on each bus provided by Riyadh Metro project to give users an accurate prediction for when the next bus will arrive at their stop. People will use the app to find information on the arrival of Buses at a station and to confirm their route when they venturing outside of areas they travel regularly.

Using the app will allow users to find the nearest bus station with schedule stops as well as view upcoming departure times. They will be able view, search a map and plan their journey.

#7 Project Title: Circulation of used Books

Supervisor Name:

Hind Alghanem

Students Names :

- Reem AL Zeer
- Hadeel AL Anazi
- Ghadah AL Khalaf
- Hessah AL Sanad

Project Description:

Is an application that allows the circulation of used books (buy, sell and donate) among these categories of beneficiaries and needy of these books.

It allow to download a picture of the cover of the book and a brief summary of its content. Any user registered in the application can access these books and buy or obtain them for free during current situation or donate books borrowed.

This application will increase the concept of user participation, especially with incentives for application users .And provides book delivery.

#8 Project Title: Rafid for Mosques

Supervisor Name:

Dr. Mona Al-ghanim

Students Names :

- Samaher Al-shammari
- Guzaiyl Al-dossari
- Nouf Al-shammari
- Lama Al-massari

Project Description:

Rafid for Mosques is an application established to serve mosques to be a link between needy mosques, donors and companies that provide for the needs of mosques. Donations are limited to providing in-kind materials for mosques such as furniture, maintenance, electrical and sound equipment, and others. The main interface of the application consists of three sections: the first section regards the person in charge of the mosque (the imam or the muezzin) and requires the introduction of the functional data of the mosque administrator, the second part relates to the donors, and the third section is about presenting the actual needs of the mosques.

The application interface consists of three main sections: the first Section regards the responsible of the mosque (imam or muezzin) requires Entering the functional data for responsible of the mosque, and the second section for donors, The third section deals with the actual needs of the mosques. The donation process take place through a form is filled out by the person in charge of the mosque, The donor reviews the needs of the mosques and then chooses what suits him, The donor then communicates with the responsible of the mosque.

#9 Project Title: Legal Cases Classification System

Supervisor Name:

Abeer Alarainy

Students Names :

- Haifa Fahad Ali Alayerei
- Amani Mohammed Al-Yousef
- Nora Mansour Alanazi
- Ghida al-rusheed

Project Description:

There is a big effort, cost money and waste time taken by the employee who is working on analyzing and classifies the cases according to public law categories (criminal law, administrative law, financial law and constitutional law.) and the private law categories (commercial law, maritime and Aviation law, civil law, labor law and civil procedure law) based on that the retrieving and saving of cases will be difficult. therefore, the analyzing and classification system that support the Arabic language will be needed in these situations.

A legal cases classification system is designed to supports and served the law field and law firms by working as a replacement for the employee who is responsible for classifying the lawsuits and save it, each lawsuit includes a name of the complainant, defendant, and the date. Which automatically reads the case, analyzes it then sorts it out each case according to its category. However, the system has various features including search and retrieval ability, display generated report.

#10 Project Title:Qomrah

Supervisor Name:

Abrar Almjaly

Students Names :

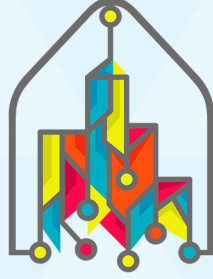
- Raghad Alkhalifa
- Reem Alqarni
- Deemah Alotaibi
- Haya Alrawdhan

Project Description:

Qomrah is a content management application that is used in augmented reality (AR) technology to retrieve information. It helps university students and visitors to both retrieve information easily and use that information in an attractive and interesting way.

When the user opens the application, a mobile camera will be activated. The user can then direct the camera to scan a physical resource, and the application will retrieve related documents, video, pictures, or lectures. Users can also establish a channel and share content with their friends.

In addition, the application allows users to receive information about campus events using AR.



معرض مشاريع التخرج
Graduation Projects Expo

رؤية
VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



كلية علوم الحاسب والمعلومات
College of Computer and Information Sciences