



IT Capstone Projects Fall 2015



AMERICAN UNIVERSITY OF IRAQ, SULAIMANI

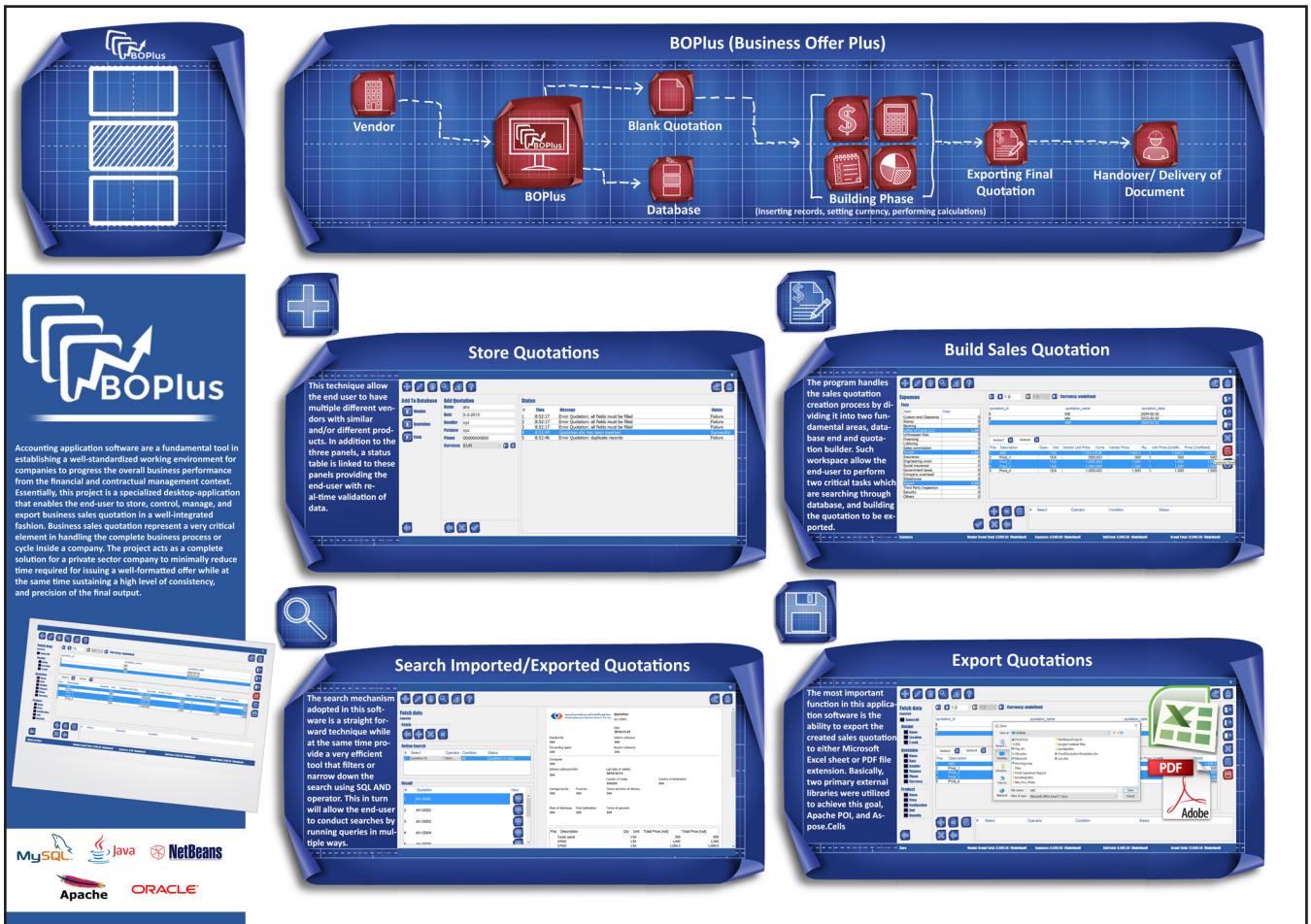
Department of Information Technology



 AUIS

Haider Abdulameer

BOPlus: A desktop-based accounting software for issuing sales quotations



In this project, Haider aims to design a specialized desktop application that enables the end user to store, control, manage and export business sales quotation in a well-integrated fashion. Business sales quotations represent a very critical element in handling the complete business process or cycle inside a particular company. In this report, Haider introduces the application software as well as presenting all secondary project-related aspects for developing and delivering such a system. He provides different manuals and user guides for the end user to efficiently utilize the complete system. The project acts as a complete solution for a private sector company in reducing time required for issuing a well-formatted offer while sustaining a high level of consistency and precision of the final output.



Berzy Bahzad
Air Pollution and Paper Lantern Cloud

In this project, Berzy combines art and technology to recreate a paper lantern cloud that detects different gases in the atmosphere via Arduino compatible gas sensors that output values into an addressable RGB LED strip. The values are color codes of gas concentration that allow the user to calculate or visualize the gas levels as it turns into light. The sensors read gases from the surrounding air and inputs them into colors inside the cloud. The colors are measured according to ozone's endangerment level in parts per million (ppm) for the air quality sensor. Berzy took the idea of using the paper cloud from the works of New York designer Richard Clarkson.



THE AMERICAN UNIVERSITY OF IRAQ
SULAIMANI

Air Pollution Clouds



Introduction

The idea is to create a cloud-like system with paper lantern covered with cotton. Inside the cloud, an addressable LED strip is spread evenly to depict multiple colors from the gas sensors. The gas sensors translate the surrounding air into parts per million (ppm), a dimensional quantity, value. These values are read by the Arduino board, and it acts as a mediator between the gas sensors and the LED strip. It inputs values from the gas sensors and outputs them to the LED; in other words, to the cloud.

The Process

The coils of each gas sensor heat up via a GND pin and a 5 volts power supply. Another leg (if the gas sensor is not like the picture below, then two legs) goes to one of the analog pins of the Arduino board for reading data. It takes 10 to 15 minutes for the sensors to calibrate and give out somewhat proper readings. The sensors used for this project are MQ-135 (Air Quality), MQ-4 (Natural Gas), and MQ-7 (Carbon Monoxide). The Arduino is programmed in a way to read one gas sensor at a time via the keypad corresponding to keys 1, 2, and 3. The readings are then translated into colors. This is where the LEDs inside the cloud depict a scale of colors starting from green as being healthy or appropriate environment to live in to purple where it would be unhealthy and hazardous. Since almost all the gas sensors are designed the same, the box is designed for easy switching between any other types of gas sensors. No bolts or screws are required, only a double sided tape to harness the sensors and the LCD.



The Cloud

Materials

Software & Libraries

- Arduino IDE
- Adafruit_NeoPixel
- Keypad
- LiquidCrystal

Hardware

- Arduino Uno
- Breadboard
- Keypad
- LCD screen
- Jumper Wires
- Soldering equipment
- LED strip
- Paper lantern
- Cotton
- Glue gun
- Multiple Gas sensors
- Resistors: 10 - 20K
- USB cable to power the LED strip separately



MQ-135 Gas Sensor



Addressable LED Strip



4 x 4 Keypad



All components together



Arduino

Arduino Uno, the computer of this project, is an open source microcontroller that enables creative minds and tech enthusiasts to program a variety of sensors, motors, LEDs, and anything else that is compatible with the Arduino. It speaks C language programming but with a slight different flavor; it has its own IDE and certain features that are added to the language to only work with the Arduino.

Conclusion

We, the IT people, have done so many things to the clouds. We use them as data storage for backing up our phones, computers, tablets, and the like. Yet, it seems like we never get enough out of them. Sky is the limit (the irony), apart from this project, to what we can come up with this same idea of the cloud. First this project. Second the Heart Cloud; that project was a complete interactive system where users could see their heart beating out loud. Third, a series of clouds at the AUS cafeteria hanging under every paintings that reacts to environment's noise? Anyone? Aesthetically, it is an interesting piece of art especially when they work with LED strips.

Now that you have went over this poster, its pictures, the idea itself, does it encourage you to modify and add new features to the cloud?

References

The making of cloud shape out of cotton is from a New York designer, Richard Clarkson. View his other works from www.richardclarkson.com

Capstone Project by **Berzy Bahzad**
Project's idea is and supervised by **Dr. Hemin Latif**
Capstone Lecturer: **Dr. Atheer Matroud**



**AMERICAN UNIVERSITY OF IRAQ
SULAIMANI**

Introduction

- 1. Online Hall Reservation is a web system to reserve halls.
- 2. The system will have all the data in the form of PostgreSQL.
- 3. The system will have all the data of all the available halls in the city.
- 4. There are many reservations from the user, including user's phone number.
- 5. The user can see the available and not available data on reserved and not reserved.
- 6. People can reserve the specific day they want.

Aims & Objectives

- 1. To create a web system that will facilitate the process of reserving halls.
- 2. To make the process of reserving halls as easy as possible for the user.
- 3. Allow people from any location to be able to reserve reservations.
- 4. Provide the reservation number of reserved for hall owners.
- 5. Provide the reservation number of reserved for hall owners.
- 6. Provide the reservation number of reserved for hall owners.
- 7. Provide the reservation number of reserved for hall owners.
- 8. Provide the reservation number of reserved for hall owners.
- 9. Provide the reservation number of reserved for hall owners.
- 10. Provide the reservation number of reserved for hall owners.

Database ERDL

Table	Field	Type	PK	FK
Users	id	int	Yes	
Users	name	varchar	No	
Users	password	varchar	No	
Halls	id	int	Yes	
Halls	name	varchar	No	
Halls	location	varchar	No	
Halls	capacity	int	No	
Halls	status	enum	No	
Reservations	id	int	Yes	
Reservations	user_id	int	No	Users
Reservations	hall_id	int	No	Halls
Reservations	date	date	No	
Reservations	time	time	No	
Reservations	status	enum	No	

The System

User Interface

- Main Page
- Hall Page
- Booking Calendar

Hall Administration

- Main Page
- Event Details
- Hall Management

Technologies Used

- CSS
- HTML
- jQuery
- Bootstrap
- PHP
- MySQL

Online Hall Reservation

By: Evan Omar
Advisor By:
Dr. Abbas Mahmud Al-Muhammad

ITE 430 - IT CAPSTONE
Dr. Abbas Mahmud Al-Muhammad
Fall 2023

Evan Omar

Online Hall Reservation

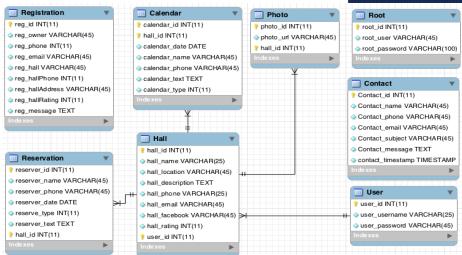
Introduction

- Online Hall Reservation is a online system to reserve halls
- The website will have all the halls in the city of Sulaimani.
- People can choose a hall out of a list of all the available halls in the city.
- They can get any information from the page, including hall's photo gallery.
- They can view the calendar and see which days are reserved and which are not.
- People can request the specific day they want.

Aims & Objectives

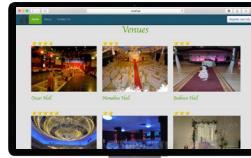
- To create a web system that will facilitate the process of reserving halls.
- Make the system as easy to use as possible for the end user.
- Allow people from anywhere to be able to make a reservation.
- Provide the maximum number of features for hall owners/managers to increase efficiency.
- Affordable subscription to create incentives to join among hall owners/managers.
- Create a secured, centralized efficient system that will allow people to reserve halls.
- Provide information about each hall, including photo gallery, calendar, and contact information.

Database UML



The System

User Interface



Main Page



Hall Page



Booking Calendar

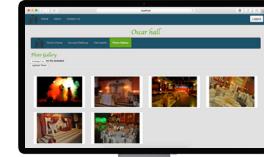
Hall Administration



Main Page



Event Details



Gallery Management

Technologies Used



Online Hall Reservation
By : Evan Omar
Advised By:
Dr. Atheer Matroud Al-Mousa

ITE 410 - IT CAPSTONE
Dr. Atheer Matroud Al-Mousa
Fall 2015

In this project, Evan Omar creates a simple way to reserve a hall online for different ceremonies, especially wedding ceremonies. Reserving a hall can be very time consuming and no online site currently exists to facilitate this process in the region. Evan chooses a web-based system as opposed to an application-based system which is faster to access, easy to use, and will benefit both managers and end users. The website allows people to gather information about different halls and to compare and contrast important details to help them make better choices, such as availability, photo galleries and contact information. There is no other system available in this region and therefore this project is new to the market. Evan uses HTML5, jQuery, CSS3, PHP5, and MySQL5 and Twitter Bootstrap to ensure that the web system displays in the same quality across all devices whether mobile or desktop.



 AUIS

Banu Omed Jalal
Smile Delivery System

In this project, Banu aims to build a bridge between host communities and refugee camps through her Smile Delivery System in the region. The project is designed to help NGOs through facilitating collection of donations from cities in the KRG and delivering them to the NGOs and refugee camps. The Smile Delivery System is a website that provides a sufficient online interface that allows users to make donations and have them collected and delivered to NGO offices. Furthermore, the website captures pictures of the donations and those donating to encourage feedback from them. Banu uses jQuery 1.9, HTML, Twitter Bootstrap 3, PHP, JavaScript, and phpMyAdmin to design the interface of the web application. The website is easy to use and accessible as it targets the entire population.

Smile Delivery System

IT Capstone Project Prepared By: Banu Omed Jalal
Supervised By: Professor Atheer Al-Mousa
The American University of Iraq-Sulaimani



INTRODUCTION



The vision of Smile Delivery System is to put a smiley face on every local. The mission and vision of the project include building a connection bridge between the locals in KRG cities with the refugees and the IDP (Internally Displaced People) camps. This connection bridge comes in a shape of a delivery service through which NGOs will pick up any donations of food and non-food items that the locals make and bring them to the camps that they are responsible of. The purpose of the delivery process is that people should not wait for the external help to be given to the refugees located in KRG while the local people can help them without having any extra expenses on their accounts. Every day people throw away a lot of goods that they think are useless for them, but all of those goods can be put in better use for some other people. Smile Delivery Project will basically be a connection bridge between local people inside the cities who want to donate their extra goods and bring them to those refugees who are in need.

Smile Delivery will provide three different interfaces for local people to contact the NGOs which are a web page, a call center, and a mobile application. This Smile Delivery system will process the requests and forward it to an application that has been provided to the NGOs and the requests will be categorized as food or non-food items. If it's food items, a delivery person will go and take the donations and bring them to the NGO's office and from there it will go directly to the camps and get distributed. NGOs have to go to the camps at least two times each day so these can take the food donations to the camps and distribute them instantly. If the request has been categorized as a non-food item then because there is no harm to take the items, one of the logistic companies inside the cities will go and take the items and send them to the camp. Building the Smile Delivery Web page will be the first step in building the interfaces of the project.

METHODS

Problem According to latest data provided by UNHCR which is a non-profit organization, there are two million IDPs and twenty thousand Syrian refugees exist in KRG, organizations such as IRC (International Rescue Committee), UNHCR (United Nations High Commissioner for Refugees) and many others are responsible for maintaining these refugees and IDPs, due to the Political and security situations in Iraq external help has stopped coming into the country. Thus these people are in need for lots of basic needs to keep on surviving their tough phase. The world wide organizations are doing their best in order to feed and provide shelter for the biggest number of refugees, but the number is increasing each day and one way or another they will eventually need extra help and resources because they cannot have control all over the countries.

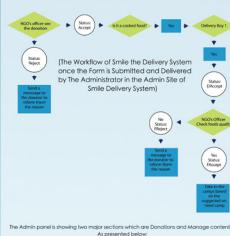
Solution As mentioned above the Smile Delivery Web page which will be developed as the main interface of the Smile Delivery project. The smile delivery project builds a connection bridge between the locals in the cities and the refugee camps plus the IDP camps; the NGOs will be the main parties responsible for receiving and distributing the donations made by the locals. Both food and non-food items will be received from the locals, cooked food will only be received from restaurants and bread will be received from the bakeries. Moreover, canned/dry food, home supplies, blankets, clothes, cleaning products, and children /babies necessities will also be collected from the houses and brought to the Refugee and IDP camps and their donors of cooked food will be distributed right away based on priority (which camp made the order first) and other items will be distributed each month.

Below is the Smile Delivery Website for the donations, and the steps to make a donation are put in



Deliverables

- The project is filling the gap between the locals and the refugees because basically there is no connection between these two due to the isolated areas of the camps.
- The project also fills the gap between the governmental/private sector and the NGOs by having one system that connects all of them and this system is made in order to verify and serve all of the contributed parties.
- The project holds the biggest ratio of humanitarian value that cannot be measured nor can it be bought with money.
- A very easy to implement project. It does not cost a lot to develop and maintain.
- Since the problem of refugees is on worldwide problem. It can expand internationally and be replicated all around the world.
- Encouraging the locals in the cities to donate more goods because the project provides a very efficient personalization message, since any one who donates will be receiving thank you letters from the refugees themselves besides picture of wealthy donations and statistics about the donations made and the people who received the donations.



CONCLUSIONS

Smile Delivery System will be connecting the locals in the cities with the refugee and IDP camps through the main interfaces of the project which are the donors and admin sites of Smile Delivery System. The Delivery System that this project provides is very unique and has not been implemented yet. The people who are in need of shelter and basic life requirements will be fed and provided with proper housing by making the first step towards accomplishing the project. Smile Delivery System achieves great goals that saves the hungry and poor with very small expenses, hence the people residing in the cities will be relieved because they will be able to contribute to their societies and humanitarian values. This project serves the local people in KRG cities, refugees and IDP inside the camps, and the entire human race, because it is the path where people can reach out for help.

By accomplishing the goals of Smile Delivery System, the sad faces will turn into smiley faces



For More Information:

Contact name: Banu Omed Jalal
Contact role: Developer of Smile Delivery Project
E-mail: banu.omed@aiu.edu.iq

Internet Voting

INTRODUCTION

A lot of problems could be made very simple if voters location were transferred to Internet. My project addresses problems and solutions through Internet voting system. The project is an appropriate system and design for voting machines and systems.

Methodology

My project involves a data center and a remote using voting. Virtualization, SD-WAN, and Packet Tracer along with a Microsoft word about how to configure IP addressing and subnetting for use of the site.

www.alyahmed.com

Problem

People vote on a paper and then have to put the votes into boxes. Then all the papers go to one man (elector). Then, he put and calculate amount from that boxes to find the winner and the votes. The problem is that he has to read the votes, get getting confused. He also has to check the voter's personal information and the voter's personal information. He also has to check the voter's personal information and the voter's personal information.

Solution

To address the issues, moving to electronic voting will be a huge task for any government. To solve the problem, I have used a network design called IP addressing and subnetting. I have used a network design called IP addressing and subnetting. I have used a network design called IP addressing and subnetting.

The Network Topology

The Network Topology

IP Addressing and Subnetting

IP Addressing and Subnetting

Conclusion

The project is a big step in the direction of electronic voting. It is a big step in the direction of electronic voting. It is a big step in the direction of electronic voting.

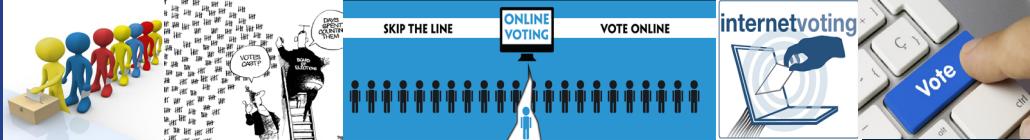
Result

Because such project has been practiced in the developed countries, it is not a hard task to implement in terms of its application. This is decided first to move from old to start planning out how to reach our voting system in the future elections. Now I am done with my project, and it has most of the requirements running in it such as Web Server, MySQL, Database, PHP, CSS, and JavaScript. However, to put it into function as a web, such system requires some programming, such as adding security and debugging, emerged in the project and finding the connection between the website and the computers, which is responsible for capturing the encrypted votes as a separate instance.

The University of Sulaimaniyah
 Ali A. Abdullah
 Ali.A.Abdullah@uol.edu.krd
 Computer Project



Ako Ali Abdullah
 Online Election



Result

Because such project has been practiced in the developed communities, it is not a subject to argument in terms of its applicability. Thus, I decided that it was time for us to start planning out how to make online-voting work in the future elections. Now I am done with my project, and it has most of the requirements running in it such as Web Server, MYSQL Database, DHCP, DNS, and FTP Server. However, to put it into function as whole, such system requires time investment such as adding security and developing the website. Eventually, the voting system designed in this project with missing the connection between the website and the database, which is responsible for counting the encrypted votes as a separate instance.

The American University in Sulaimanyah
Ako Ali Abdullah
ako.abdullah@asu.edu.krd
Capstone Project

INTRODUCTION

A lot of problems could be made very simpler if online election were introduced in Kurdistan. My project addresses problems that face Kurdistan region during election times. The project is an applicable system and design for holding elections and reforms.

Problem

People vote on paper and then they put the votes into boxes. Later, all the boxes go to one main place. Then a group of people, are chosen from the parties, collect and calculate the votes. The problem is that the boxes, that contain the votes, are getting corrupted. So, everyone, even the most powerful parties complain about the results. Moreover, there are people who decide not to vote for or against any party, but still their votes go to some particular parties. So, my project is to reduce those kinds of issues.

Solution

To address the issues, moving to electronic voting will be a huge task for any government. To grab our people's attention to electronic voting, I have set up a network design with its requirements that can hold online elections. Any time an election goes on, the IT stuff of the network will send each of the voters a unique ID a day or two days before the Election Day. Then each voter will have his or her username and password along with the unique IDs that they get before the Election Day. While a voter votes, they require to login in www.election.com using his last name, password and ID. Once they vote, their votes along with their unique IDs will go to the database system. Each ID will have only one or no vote in front of it. After the administrators calculate the votes and the results, all individual votes along with their unique IDs will be in files. Later, the files will be upload on the Internet so that voters can see if their votes are still saved or not. In addition, voters, later on, can go to their accounts and see if any action has taken place on their behalf or not.



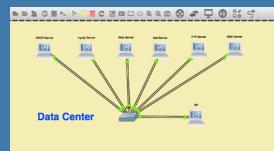
Methodology

My project includes a data center and a network design using VirtualBox, GNS3, and Packet tracer along with a Microsoft excel sheet that includes IP addressing and subnetting for one of the cities.

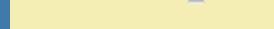
The Network Topology



The Network Topology



Data Center



IP Addressing and Subnetting

IP	Subnet	Mask	Gateway
192.168.1.1	192.168.1.0	255.255.255.0	192.168.1.1
192.168.2.1	192.168.2.0	255.255.255.0	192.168.2.1
192.168.3.1	192.168.3.0	255.255.255.0	192.168.3.1
192.168.4.1	192.168.4.0	255.255.255.0	192.168.4.1
192.168.5.1	192.168.5.0	255.255.255.0	192.168.5.1
192.168.6.1	192.168.6.0	255.255.255.0	192.168.6.1
192.168.7.1	192.168.7.0	255.255.255.0	192.168.7.1
192.168.8.1	192.168.8.0	255.255.255.0	192.168.8.1
192.168.9.1	192.168.9.0	255.255.255.0	192.168.9.1
192.168.10.1	192.168.10.0	255.255.255.0	192.168.10.1
192.168.11.1	192.168.11.0	255.255.255.0	192.168.11.1
192.168.12.1	192.168.12.0	255.255.255.0	192.168.12.1
192.168.13.1	192.168.13.0	255.255.255.0	192.168.13.1
192.168.14.1	192.168.14.0	255.255.255.0	192.168.14.1
192.168.15.1	192.168.15.0	255.255.255.0	192.168.15.1
192.168.16.1	192.168.16.0	255.255.255.0	192.168.16.1
192.168.17.1	192.168.17.0	255.255.255.0	192.168.17.1
192.168.18.1	192.168.18.0	255.255.255.0	192.168.18.1
192.168.19.1	192.168.19.0	255.255.255.0	192.168.19.1
192.168.20.1	192.168.20.0	255.255.255.0	192.168.20.1
192.168.21.1	192.168.21.0	255.255.255.0	192.168.21.1
192.168.22.1	192.168.22.0	255.255.255.0	192.168.22.1
192.168.23.1	192.168.23.0	255.255.255.0	192.168.23.1
192.168.24.1	192.168.24.0	255.255.255.0	192.168.24.1
192.168.25.1	192.168.25.0	255.255.255.0	192.168.25.1
192.168.26.1	192.168.26.0	255.255.255.0	192.168.26.1
192.168.27.1	192.168.27.0	255.255.255.0	192.168.27.1
192.168.28.1	192.168.28.0	255.255.255.0	192.168.28.1
192.168.29.1	192.168.29.0	255.255.255.0	192.168.29.1
192.168.30.1	192.168.30.0	255.255.255.0	192.168.30.1
192.168.31.1	192.168.31.0	255.255.255.0	192.168.31.1

www.election.com



CONCLUSIONS

I have finished a big part of my project, but still a part of it requires time investment. For example, security needs to be configured on the network and the website needs to be connected to the database. It's naturally difficult to quantify online voting security, but still it is possible to put limitation of risk. I admittedly believe that it cannot be absolutely free from risk; but that does not mean we should not try it. Thus, I will try to find all the possible ways to apply the most reliability and security to the system. I will also try hard to develop all the aspects of my system with keeping that in mind that adopting this system needs a clear balance between optimizing voters' participation and maintaining the secrecy of elections.

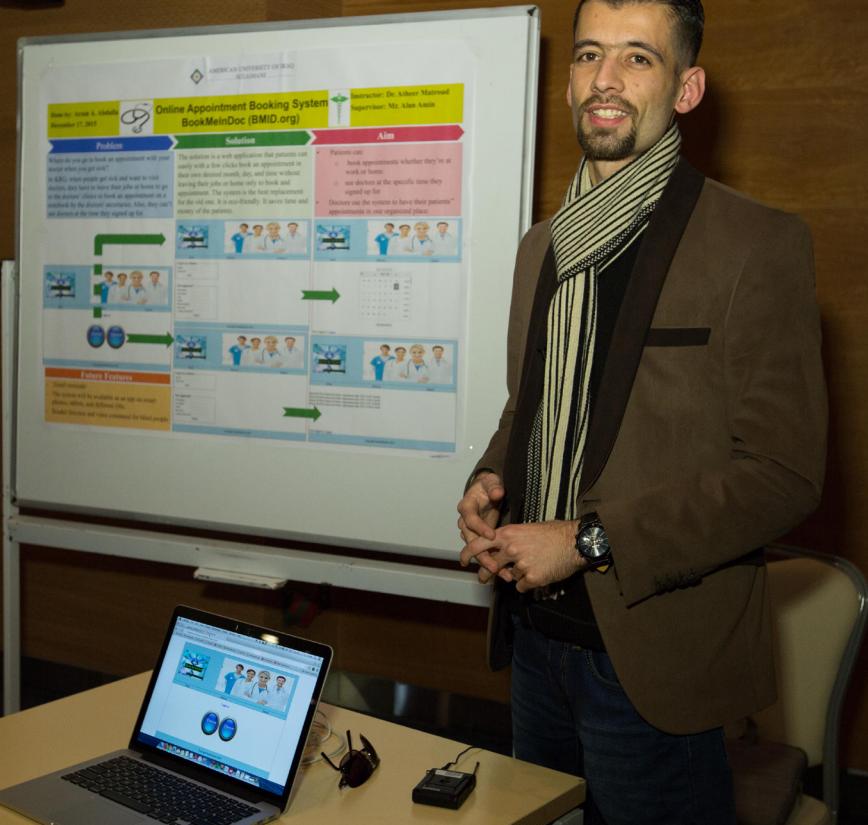
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In this project, Ako proposes an online voting system for elections in the Kurdistan Regional of Iraq. The project is an applicable system and design for election reforms as well as distributing internet services. The project is a network design that would have a data center in the capital of KRG, Erbil, with all other cities connected together through the network. Voters are registered in a database program. During elections, each voter will get a unique ID along with a username and password to log into the site and vote. Their votes are then collected within the database system and results are calculated. Voters are also able to check online whether their vote has been cast and counted. Ako's project includes a data center and a network design using VirtualBox, GNS3, and Packet tracer along with a Microsoft excel sheet that includes IP addressing and subnetting for one of the cities.



AUIS



Aram Ahmed Abdalla

Online Appointment Booking System

Done by: Aram A. Abdalla
December 17, 2015



Online Appointment Booking System BookMeInDoc (BMID.org)



Instructor: Dr. Atheer Matroud
Supervisor: Mr. Alan Amin

Problem

Where do you go to book an appointment with your doctor when you get sick?

In KRG, when people get sick and want to visit doctors, they have to leave their jobs or home to go to the doctors' clinics to book an appointment on a notebook by the doctors' secretaries. Also, they can't see doctors at the time they signed up for.

Solution

The solution is a web application that patients can easily with a few clicks book an appointment in their own desired month, day, and time without leaving their jobs or home only to book and appointment. The system is the best replacement for the old one. It is eco-friendly. It saves time and money of the patients.

Aim

- Patients can:
 - book appointments whether they're at work or home.
 - see doctors at the specific time they signed up for.
- Doctors use the system to have their patients' appointments in one organized place.

Future Features

- Email reminder
- The system will be available as an app on smart phones, tablets, and different OSs.
- Screen reader and voice command for blind people

Aram creates an online appointment booking system for medical centers and clinics in Kurdistan. Not only can users choose the day and time to make their visit, but doctors can use it too to organize patient appointments in one place. This project enables users to book their appointments without waiting or visiting clinics and is eco-friendly in that it is paperless. Aram uses HTML5 to create the interface of the website, including the index, patient registration page, doctor registration page, about us and support; and php to create the registration form, login, logout, booking and to connect the database to the website. Patients will create accounts before making an appointment. Doctors will need to create accounts as well but their accounts will have a different interface that allows them to see their patients' appointments.



Botan Othman Mohammed
Personal Parking Guard

Personal Parking Guard

By: Botan Othman M.

Supervisor: Dr. Hemin Latif

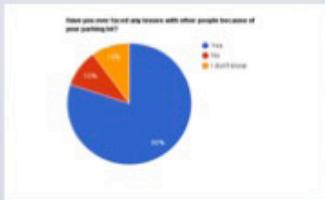
Why Personal Parking Guard is important ?

Unfortunately, many people do not care about the system that each apartment should park in its parking lot so that they park their cars in the empty lots. They do not care about the other owners of those lots.



The Problem in Sulaimanyah City

In the city of Sulaimani , I have done a survey among some people in the apartment blocks such as in Garden City, Pak City, Goizha City , and Newroz City. Almost all of the people were complaining about other people who take their parking lots when they are not at home and when they come back to home they cannot park their vehicles.



Why Should We Install Personal Parking Guard?

The aim of this project is to make car and garage owners to be comfortable all the times and do not feel worry about their vehicles any more. The car owners can feel safe about their cars by parking their cars in the special parking lots.



- Can Work With All The Samsung IRs
- Easy to Install
- Can Work With A Low Power
- The Size Fits Everywhere
- Cheap to Buy

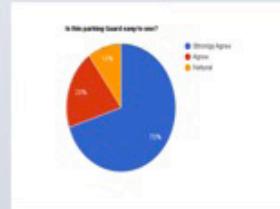
How The Device is Made?

The Device Was Made By Using The Below

- The Arduino Board
- Wire Jumpers
- Samsung TVs Remote Control
- Stepper Motor
- Boards For The Stepper
- IR Receiver



Is The Parking Guard Easy



According to the result, 70% people chose "Strongly Agree", 20% people chose "Agree", and only 10% of the people chose Neutral.

I found out my device is easy to use because of 70% of the people chose "Strongly Agree" the reasons of that is the simplicity of the device and how easy to use. At first, when I gave them the remote control they were asking me why did you choose this type of IR and then I explained that is from Samsung company and I mentioned that you can use your TV remote control. Also, I explained that even if you have a phone that has inferred, you can download Samsung Remote Control and be able to use the device easily.

In this project, Botan creates a device to be used in a parking lot that acts as a guard and does not permit unauthorized vehicles to park in those spaces. It can also be applied to front gates of houses in crowded areas. The device is connected with a remote control for the use of the owner. The device will be used in two stages to control the object that blocks cars from entering that parking space, moving it up or down based on the owner's remote control. The device will be affordable for all users.



Mohammed Khaluq

Nuntium: A new way to interact with news

Nuntium: A New Way To Interact With News

Introduction

- . Nuntium is a social media for news only.
- . The reason behind creating this social media is to make reading news a social act rather than an individual one.
- . It allows the users to expand their knowledge on different subjects by reading what other users post.
- . It gives the users the ability to get different perspectives about what is going on in the world.

Background

- . Why another social media? We have Facebook, Twitter, and other websites to share news.
- . The answer is news get lost easily on those social sites especially if the user has a huge active friends' list whom they share, post, and talk about many subjects other than news frequently.
- . Also, it is important to note that not all the users are interested in reading news, so having a social media acting like a place in which those who are interested in reading news can post what they like seems more reasonable.

Functionalities

- . Accounts for users to login and logout.
- . Registration page.
- . Ability to search news using Google News and other websites.
- . Ability to share news.
- . Ability to follow.
- . Ability to get to see what everyone else is posting on a news page that offers the user the ability to scroll down and up.
- . Linking users to a database and protect their passwords through encryption.
- . Giving the users the ability to upload their own profile pictures.

Design



- . To make sure that the user won't face any difficulties when first start using the website, the design was made to be similar to what users are used to, with profile picture on the left side, the ability to share news in middle, and Google Search on the right side.
- . Google Search bar was used since most of the users are familiar with it. Also, it allows them to search news faster.
- . Each user can post the URL of the news he wants to share, or he can posts headings of important news.

The Future

- . Develop my own algorithm for searching news.
- . Allow the users to comment and like what is being posted.
- . Allow the users to login using their Google, Facebook, or Twitter account,
- . Improve the coding by depending on functions.
- . Allow the user to create communities of interest in which users can share news about one topic like sport.
- . Improve the design to make it more attractive and catchy.
- . Improve the security of the project.
- . Launch the project to the world and see how the people will react.
- . Allow the users to get breaking news as they happen.

Conclusion

There might be other social media websites that allow users to share news, but Nuntium will be a social media website for news only. It will give the user a new kind of experience while reading news by making it an interactive social act. It will create a space for people to share articles and news they like, and inform the world about what is going in their countries and around them. Nuntium will facilitate checking news and make it enjoyable.

By Mohammed Khaluq
ITE 410

Dr. Atheer Matroud
Dec 17, 2015

In this project, Mohammed creates Nuntium, a social media website meant to transform the way we read news by making it a social act instead of an individual one. Nuntium will enable users to share what they read with others and be exposed to information and news from different perspectives. It will be a virtual place where news is read socially with other people. Mohammed creates this website using HTML, PHP, and CSS to allow users to follow friends and share the news they read with each other. The objective of this project is to create a user friendly environment which allows users to easily search topics of their interests in various media outlets and share articles with their social network.



International Hospital Management System
Enaas Basim

American university of Iraq
alshaykh

Introduction
International Hospital Management System is designed to solve the issue in Iraqi clinics and hospitals, which is paper-based work. Actually, doctors in the clinics and hospitals need to see and manage patient's records and save them for anytime they want. Therefore, my project is about a website application that is used on local host, which is function without using internet.

In the past, patient has to do all of these

- Doctor can use
- Doctor can use

My Project

This Project for Managing the Clinic & Hospital Work

Doctors

1. No internet
2. No need internet

Receptionist can
Receptionist can
Receptionist people
doctor they want.

Enaas Basim

Management System for International Hospital



American university of Iraq
sulaymaniyah

International Hospital Management System

Enaas Basim

Introduction

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In the past, patient has to do all of these



Pharmacy



Hold Many Paper



Lose Medical History

My Project



Patient will go to hospital



Patient will give all the information that hospital need to the register office



The data will be kept in the laptop of the hospital and it will be access by doctor



The main of this project to manage the clinic or hospital work



When doctor open his page, he will see all the data of his or her patients saved in his data and can easily see what the medical record



Doctor



Prescription
Do Signa. Etc sleep and walk to get better. 10 minutes.



Appointment

Doctor page



- Doctor can see all the patients medical recorded history
- Doctor can see all the patients personal information

Reception page



- Receptionist can edit patients
- Receptionist will be able to add new patients
- Receptionist people can come and take appointments with any doctor they want.

Feature

1. No internet connection is required
2. No more carry out papers
 - Patients do not need to bring all the time a lot of papers
 - Patients will not lose their documents because it is already saved
 - Doctors can know everything related to the patients without ask the patient while he or she really sick and cant not talk
3. Environmental Friendly



In this project, Enaas designs a system for local clinics and hospitals to replace their paper-based record keeping system with an electronic one. Enaas uses php for writing codes and MySQL for saving the data. The system will store all patient documents and allow doctors and receptionists to easily access these documents. Hospitals will be able to use this system to keep a record of patient prescriptions, diagnoses, and other relevant information. It is a web-based system that does not require an internet connection and uses local network.



 AUIS

Barham Othman

Sulaimani in Seven Days

In this project, Barham creates a website for the city of Sulaimani that will include details of interesting places in and around the city, including entertainment, clubs, gyms, restaurants, cafe and hotels. The website will include features that allow users to create accounts and give feedback on their experiences visiting these places. The project's objective is to promote the places around Sulaimani, and for the website, Barham selects seven places for the seven days of the week. Each place will pay to register for the site while users will be able to create an account and visit the site free of charge. Barham uses a simple design to ensure high speed on this site. The site will provide a forum for customers and visitors to evaluate these places and make more informed decisions about where to eat, stay, and go for entertainment.

Sulaimany in Seven Days

By: Barham Othman Ahmed

Information Technology Capstone Project
The American University of Iraq-Sulaimany

Introduction

This website basically is trying to create a guide for Sulaimany City that should contain every single place in and around the city including entertainment, bars, clubs, gym, restaurant, café and hotels. I planned several features for the website previously which were having accounts for the users; and their feedbacks on the places. I have chosen this project because it is unique around the place in Iraq, but it is available throughout the world. I got some ideas from other websites in Europe and US, but I imitated them for the project. The projects goal was more to advertisement of both the places around Sulaimany and for the website as well. I contain seven places for the days of the week. Each place should pay a certain amount of money to be registered on the website. Also, the users can register for free, and they can give feedback and comment on the places they have been. The more ranked place goes to the top, whenever someone rates.

Methods & Materials

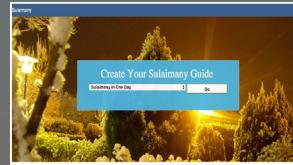
Talking about the features that the website contains is several. I chose the easiest parts of coding for the website in order to be the most outgoing website possible even in terms of coding. The technologies that I have used are HTML, JQuery, CSS, JavaScript, PHP, and Bootstrap along with the database of the website which I chose MySQL. I have done what the website needs not more not less. The database is for the users of the website along with the data of the places which they are willing to register.

Conclusions

I have mentioned the steps that I have followed for creating this website along with the time I have spend on. I have created a simple website for Sulaimany city that contains seven places for the days of the week. This website has a simple feature which can both interact with users of the website and business owners as well. There is a similar website that includes almost every single place around the globe. The website is <http://www.visitacity.com/>. This website includes most of the cities around Europe, but the part about Paris is fascinating that is why it is preferred as an example to motivate the creation of this project. This website is kind of similar to the project in a way that makes the project one of the most profitable ways of advertising. They do not charge the places on the website, but they do provide different sections for advertising which are valuable to other companies to attract them and motivate them to advertise on the website. The website also gives brief discretions about the places in Paris so that other people know about what and why they need to visit the places. Secondly, there is a similar website in New York that has the same features as the website in Paris, but they do provide different features. One of the most dangerous risks is that if the hardware of the machine that the project works on breaks down or gets deleted. The latter is a main issue of every single IT project because nothing can make sure of working the hardware of the machines. Secondly, if the project does not meet time and that leads to the failure of the achievement of the project in the provided time that is also considered.

Documentation

For the website to function properly for the place who owns the website meaning the admin, the user should have XAMPP for the localHost server an application that reads the codes for instance, Google Chrome or any browser, MySQL database application. Those applications are for the admin to understand the base or the blueprint of the website in other words the functionality of the website can be revealed under the mentioned applications. Putting the database file along with the PHPs will drive the website to function properly. The first and the main goal of the design of the site is to be as simple as possible, to be as easy as possible, and to be attractive. The simplicity of the website makes the users not get bored when they use the website .



Mission

When I planned this website, I was thinking about those people who visit Sulaimany which they have no idea about where to go; and also for the locals of the city as well. There are lots of places in the city which are very good in their service, but they have lack of ideas about sharing what they have. This mission is to facilitate the engagement between the owner of the places and the customers. Since the website has a free registration, users do not really think about the cost of the website, but that is the opposite for the places that they want to register; that is how the profit is made. But what makes it interesting is that the website provides a free conversation between the places and customers; and their feedback. Another goal, is the comments which users make, place owners can read the comments and think about the customers feedback because they might have a weakness which they cannot really know.



Business Sector of the Website

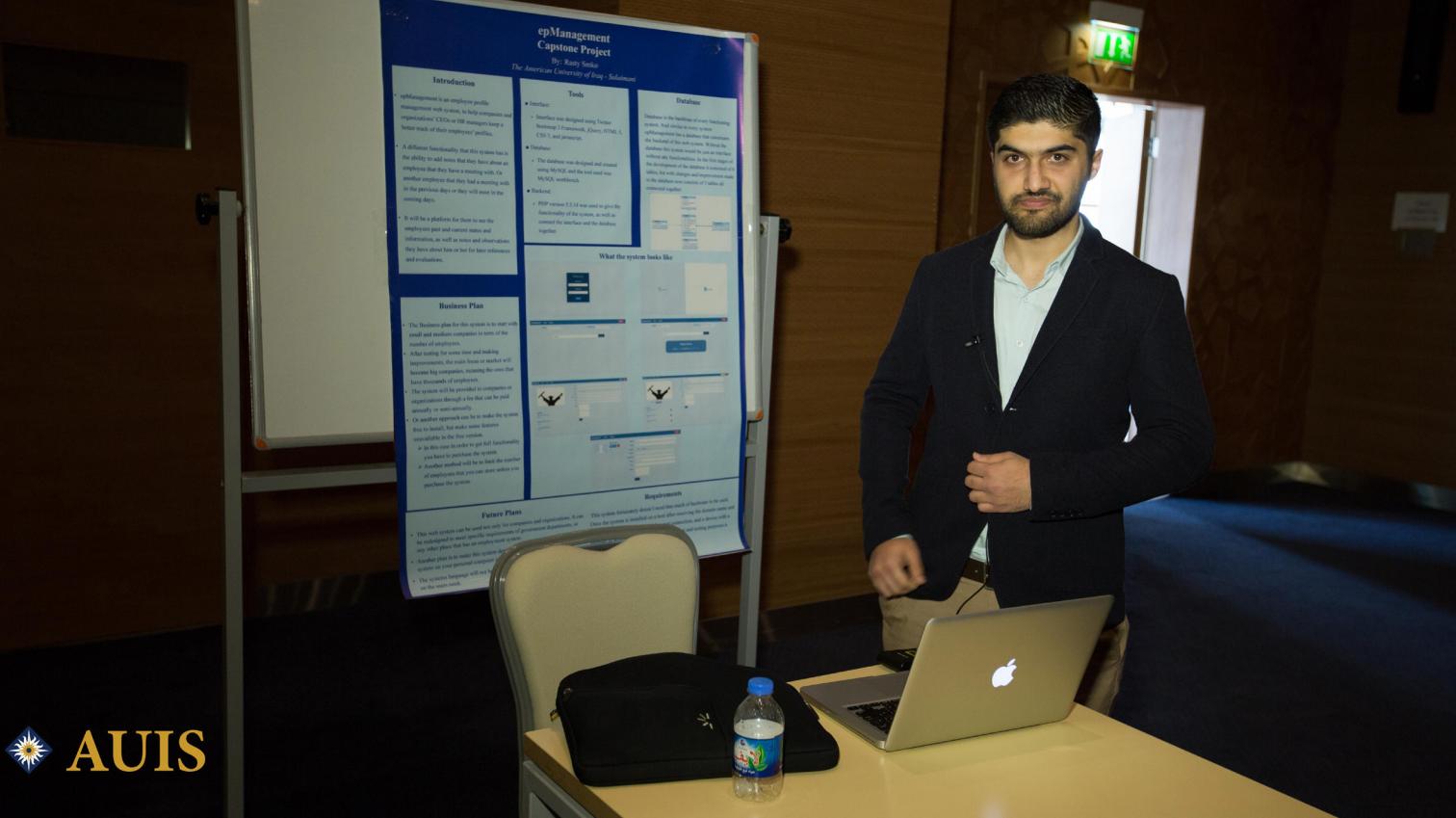
This website can be a profitable business in terms of making profit from those places around and in the city which they willing to be on the website. An amount of 10\$ fee will be taken from monthly registration. Another offer will be annual recharges form the customers of the user. Annually 100\$ fee will be taken. And that is to encourage customers to join annual registration instead of registration monthly. Since the project is done now, I can think about the marketing plans. The website can be used as huge business because it has lots of advantages for marketing, for instance, place owners may see a change in their customers after they register for the website; and that makes them to register again for the week after. Through this, the website gains lots of money from the place owners.

Target Market

The project targets almost everyone including young, old and teenagers. Basically the projects targets in two ways. First, it targets the places in the city to be on the website and do the business, then for the users to visit and register their accounts. This goes to the projects mission, its mission is to be as popular as possible and that is due to the places that are on the website and the users who visit the website. I

Acknowledgements

This Project has been led by Professor Atheer Matroud and Professor Omer Khan Shaheen From the American University of Iraq-Sulaimany.



Rasty Smko
ep Management

In this project, Rasty creates an employee profile web management system for companies. The database system allows users/ human resource departments to make notes and observations for future reference and evaluation of employees. The management system uses PHP 5.5.14 for functionality, while the database is created from MySQL. The interface uses Twitter Bootstrap 3 Framework, jQuery, HTML5, CSS3 and javascript. The management system has the ability to translate into various languages from English.

epManagement Capstone Project

By: Rasty Smko
The American University of Iraq - Sulaimani

Introduction

- epManagement is an employee profile management web system, to help companies and organizations' CEOs or HR managers keep a better track of their employees' profiles.
- A different functionality that this system has is the ability to add notes that they have about an employee that they have a meeting with. Or another employee that they had a meeting with in the previous days or they will meet in the coming days.
- It will be a platform for them to see the employees past and current status and information, as well as notes and observations they have about him or her for later references and evaluations.

Business Plan

- The Business plan for this system is to start with small and medium companies in term of the number of employees.
- After testing for some time and making improvements, the main focus or market will become big companies, meaning the ones that have thousands of employees.
- The system will be provided to companies or organizations through a fee that can be paid annually or semi-annually.
- Or another approach can be to make the system free to install, but make some features unavailable in the free version.
 - In this case in order to get full functionality you have to purchase the system.
 - Another method will be to limit the number of employees that you can store unless you purchase the system.

Future Plans

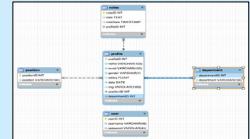
- This web system can be used not only for companies and organizations. It can be redesigned to meet specific requirements of government departments, or any other place that has an employment system.
- Another plan is to make this system deployable, meaning you can install the system on your personal computer instead of using it in the browser.
- The systems language will not be in English alone, it will be translated based on the users need.

Tools

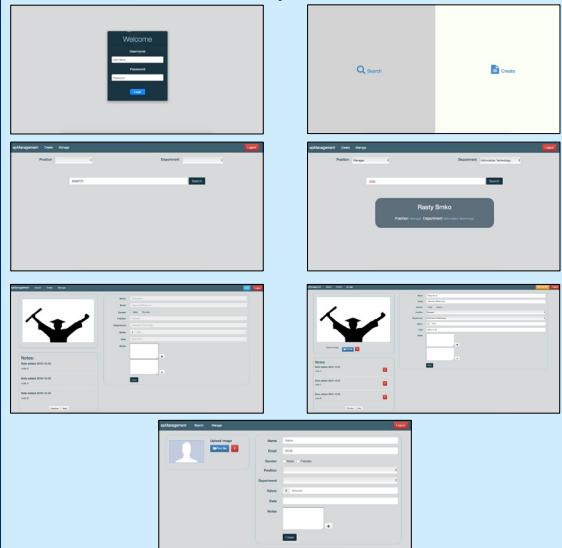
- Interface:
 - Interface was designed using Twitter bootstrap 3 Framework, jQuery, HTML 5, CSS 3, and javascript.
- Database:
 - The database was designed and created using MySQL and the tool used was MySQL workbench.
- Backend:
 - PHP version 5.5.14 was used to give the functionality of the system, as well as connect the interface and the database together.

Database

Database is the backbone of every functioning system. And similar to every system epManagement has a database that constitutes the backend of this web system. Without the database this system would be just an interface without any functionalities. In the first stages of the development of the database it consisted of 6 tables, but with changes and improvement made to the database now consists of 5 tables all connected together.



What the system looks like



Requirements

This system fortunately doesn't need that much of hardware to be used. Once the system is installed on a host after reserving the domain name and host plan, the end user needs an internet connection, and a device with a browser to access the website. For development and testing purposes a local host via Apache server is been used.