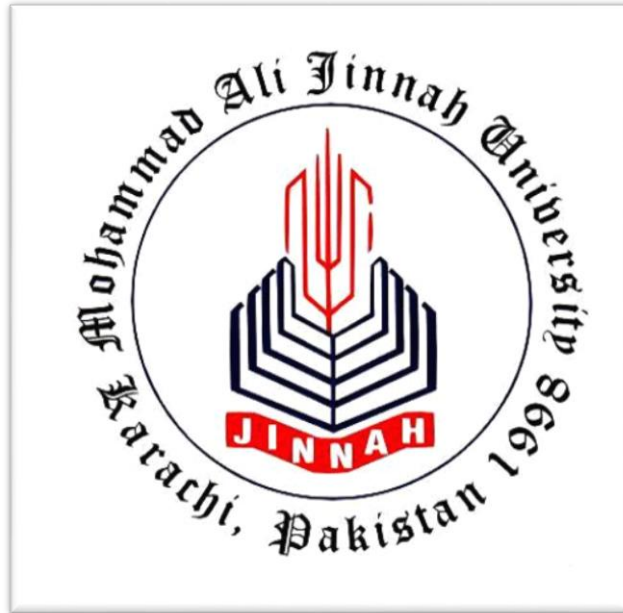


# **FINAL YEAR PROJECTS DIRECTORY**

## **SPRING -18**



### **FACULTY OF COMPUTING & ENGINEERING**

### **MOHAMMAD ALI JINNAH UNIVERSITY, KARACHI**

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## **ASSOCIATE DEAN MESSAGE**

**Dr. Asim Imdad Wagan  
Associate Professor, Associate Dean (FOCE)  
Computing & Engineering PhD. Faculty**

**It is with my great pleasure I present to you the endeavors and accomplishments of our students in the form of the final year projects. These projects not only demonstrate the capabilities of the students but show their professional ethics and commitment to highest standards which are followed at Mohammad Ali Jinnah University.**

**Our faculty takes pride into coordinating and supervising students in producing these projects. One of the major focus of this is to establish a link with the industry and entice the industry to partake in the projects which are of mutual interest.**

**I wish students good luck and I pray for their success in their endeavors.**



## **HEAD OF THE DEPARTMENT MESSAGE**

**Dr. Shaukat Wasi**  
**Associate Professor, HOD (Computer Science)**  
**Computing & Engineering PhD. Faculty**

**It is an immense pleasure to announce regarding our students and their accomplishments in the form of Final Year Project .These projects are not only demonstrating the skills and abilities of the students but also committed to the standards par excellence being followed at Mohammad Ali Jinnah University.**

**The faculty took pride and honor in supervising and guiding their students for the development of these projects and for boosting the performance of the projects in the industry.**

**I wish best of luck to the students for their future endeavors and their bright successful career ahead.**



## **HEAD OF THE DEPARTMENT MESSAGE**

**Dr. Ghazanfar Monir**  
**Associate Professor, HOD (Electrical Engineering)**  
**Computing & Engineering PhD. Faculty**

**Final year project (FYP) is a compulsory course which is to be taken by undergraduate students during their final year. FYP is considered crucial as it prepares the student for their professional career. During FYP, the students are expected to acquire and develop a set of skills that is necessary for them to become a good professionals.**

**Not only that FYP gives the opportunity for the students to conduct basic research and apply what they have learnt during their degree course, it also make them learn how to work in a team and how to present their work.**

**Project Code:** FYP-BS1

**Project Title:** Tournament Organizer

**Team:**

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**Supervisor:** Miss. Nazish Nauman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** Tournament Organizer is a web based portal for players and organizers to create a sporting tournament. The portal provides an opportunity to players and organizers to manage tournament and auctioning activities.

**Tools & Technologies** Front End : Html ,Css , Java Script ,Bootstrap  
Back End :C# , Asp.Net, Sql Server

**Relevant Industry:** Sports



**Project Code:** FYP-BS2

**Project Title:** Forecasting Model for Grocery Items

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**Supervisor:** Mr. Osama Khan [osama.khan@jinnah.edu](mailto:osama.khan@jinnah.edu)

**Abstract:** Accurately predict sales for a large grocery chain.  
Brick-and- mortar grocery stores are always in a delicate dance with purchasing and sales forecasting. Predict a little over, and grocers are stuck with overstocked, perishable goods. Guess a little under, and popular items quickly sell out, leaving money on the table and customers fuming.

**Tools & Technologies** RapidMiner / Weka

**Relevant Industry:** Data Science

<b>Project Code:</b>	<b>FYP-BS3</b>	
<b>Project Title:</b>	<b>Post Steward System</b>	
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<b>Supervisor:</b>	<b>Miss. Fouzia Naz</b>	<a href="mailto:fouzia.naz@jinnah.edu">fouzia.naz@jinnah.edu</a>
<b>Abstract:</b>	<b>Post Steward is a web based system for MAJU students to communicate with each other. The salient features of this system are to create posts and make comments on each other's post, share and receive latest news and updates of seminars, workshops, picnics, sports and other events and activities and also create polls on different university related activities. The system also provides a platform for the students to apply for jobs and internships and can interact with the placement department.</b>	
<b>Tools &amp; Technologies</b>	<b>PHP as a server side script , MySQL as database , javascript as client side , HTML , CSS , Bootstrap</b>	
<b>Relevant Industry:</b>	<b>Educational</b>	

**Project Code:** FYP-BS4

**Project Title:** Traffic Control Signal on Digital Image Processing

**Team:** M. Tabish [fa13bs0062@maju.edu.pk](mailto:fa13bs0062@maju.edu.pk)

Usaid Zafar Mehkri [fa14bs0006@maju.edu.pk](mailto:fa14bs0006@maju.edu.pk)

**Supervisor:** Mr. Waheed Uddin [waheed.hyder@jinnah.edu](mailto:waheed.hyder@jinnah.edu)

**Abstract:** The project is about to enhance the traffic control system digitally. Its unique feature is prioritization. The system prioritizes ambulances and load of traffic to minimize the congestion.

**Tools & Technologies** Matlab

**Relevant Industry:** Surveillance

**Project Code:** FYP-BS5

**Project Title:** MAJU Online Classroom & Lecture Archiving System

**Team:**

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**Supervisor:** Miss. Fouzia Naz [fouzia.naz@jinnah.edu](mailto:fouzia.naz@jinnah.edu)

**Abstract:** MAJU online classroom and lecture archiving system is a web based project, which provides an academic forum to the students. The primary purpose of this project is to provide MAJU students an online classroom and lecture archiving system.

The salient features of the system are: the query forum in which students can ask question regarding any course. Similarly the system provides chat authority to users for group studies, where students can interact with teachers and other students.

**Tools & Technologies** HTML ,CSS , JavaScript, Php, Ajax, MySql, Apache

**Relevant Industry:** Educational

**Project Code:** FYP-BS6

**Project Title:** Drug Compression & Blood Donation System

**Team:**

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**Supervisor:** Miss. Nazish Nouman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** The aim of this project is to utilize this android based mobile application in hospitals, clinics or the general public in order to get or donate blood to respective hospitals in emergency situations. Searching the blood group you can get the data in quickest time. Some of the resources minimized include paper, manpower and related things, there is a message alert for the user if the stock holding quantity reaches a low level, thus the hospitals will need to restock or rearrange the blood group and if any person who is interested to donate the blood can register himself/herself with its profile and the system will make his/her last donation history.

**Tools & Technologies** Android Studio

**Relevant Industry:** Pharmaceutical & Healthcare

**Project Code:** FYP-BS7

**Project Title:** Online Occasion Management System

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**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** Online occasion management system is an online event management system which serves the functionality of an event manager. To effectuate individual's present commitment the system provides different packages for its clients. The primary aim of the system is to provide a general platform through web portal which can enable its clients to choose and assess packages (which includes venue, theme, catering, and packages for different events).

**Tools & Technologies** Front End: HTML5, CSS3, JavaScript Language: C#, .NET Framework  
Database: SQLSERVER OS: Windows 7 & above

**Relevant Industry:** Event Management

**Project Code:** FYP-BS8

**Project Title:** Three Ventures

**Team:**

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**Supervisor:** Mr. Syed Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** Three Ventures is a web based social networking application. The basic reason of creating Three Ventures is to do some enhancement after creating the fundamental features of social network like Newsfeed, Comments and Likes etc. This enhancement or next level thing should be anything that helps people who are using social media with their major problems.

After a deep analysis and research and development, eventually the social networking name Three Ventures is made included with all fundamental and advance features.

**Tools & Technologies** HTML, CSS, JavaScript, JQuery, Bootstrap, PHP, MySQL, XAMP

**Relevant Industry:** Social Networking

**Project Code:** FYP-BS9

**Project Title:** Quick Talk

**Team:**

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**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** Quick Talk is made through speech recognition technology which is one of the fast growing engineering technologies. The application is capable of recognizing the speech and convert the input audio into text, it also enables a user to perform operations through such as “Silent”, “Bluetooth On & Off”, “Flashlight On & Off”, “Screen Lock”, “Wifi Enabling and Disabling”, and “General”. It also helps the user to call the relatives and friends through voice command. At the initial level effort is made to provide help for basic operations. The application can further be updated and enhanced in order to cover more operations. The application is adapted to input messages in English. Used tools are Android SDK.

**Tools & Technologies** Android Studio Photoshop CC Json

**Relevant Industry:** Disable People



**Project Code:** FYP-BS10

**Project Title:** Small Business Solution System

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**Supervisor:** Mr. Syed Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** The small business solution is a web based system, which provides a flexible easy to use and easy to get, point of sale (POS), inventory management and marketing systems. The system contains 4 modules Mini Mart System, Medical Store System, Home Appliances System and Marketing System with business templates where an end user can choose its business type and can create fully functional software system for their businesses.

**Tools & Technologies** ASP.NET, IDE visual studio ,Sql server, Bootstrap , Jquery , Soap Services

**Relevant Industry:** Retail Stores and Small Businesses

**Project Code:** FYP-BS11

**Project Title:** Project Management System

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**Supervisor:** Mr. Syed Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** Project management is a web based system. The purpose of this management system is to create a convenient and user friendly and easy to access system for final year project activities between its stakeholders such as: students, supervisors and the project manager etc.

The system creates a bridge between the students, the supervisors and the project manager for the handling of final year projects, they can interact with each other through this system and can see the project progress, accordingly.

**Tools & Technologies** **TOOLS:** Xampp Codeignator Dreamweaver  
**TECHNOLOGIES:** HTML, CSS JS BOOTSTRAP, PHP and MYSQL

**Relevant Industry:** Educational

**Project Code:** CAP-BS1

**Project Title:** Akcess

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**Supervisor:** Miss. Nazish Nouman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** An Akcess is a smart web based application which can provide startup for experts through promoting their skills and abilities. The aim and objective of the akcess is to create a place for people who have skills and abilities but they unable to compete or promote their services which they are good in because of some restrictions, financial issues.

**Tools & Technologies** PHP (code Igniter), Html5, css3, javascript, jQuery , JASON , AJAX , submit text editor, notepad++, Photoshop, Bilsqmiq

**Relevant Industry:** Entrepreneurship

**Project Code:** CAP-BS2

**Project Title:** Child Healthcare Information System

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**Supervisor:** Miss. Nazish Nouman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** Child health care is the web based information system which provides a dynamic runtime portal to help parents and the nurses to keep infant / child's healthcare record. This project can assist the parents to see their infant / child's record like weight, height, vaccination details etc. and similarly the nurses / paramedic staff can manage the record through record updation etc. This project can facilities the health centers, doctors, nurses and parents robustly in term of keeping an eye on infant / child's health.

**Tools & Technologies** Back end: PHP(YIYI) Front end: HTML, Bootstrap, CSS  
Database: Microsoft SQL Server Project management: MS Project

**Relevant Industry:** Healthcare

**Project Code:** CAP-BS3

**Project Title:** Online Rent System

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**Abstract:** A web based real estate system where the landlord can post the details of houses or apartments available for rent. The tenant can search the available options based upon his / her location.

**Tools & Technologies** PHP , HTML 5 , CSS 3

**Relevant Industry:** Real Estate

**Project Code:** CAP-BS4

**Project Title:** Smart Home Services

**Team:** Osama Sarfraz [sp15bs0028@maju.edu.pk](mailto:sp15bs0028@maju.edu.pk)  
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**Supervisor:** Mr. M. Sufian [m.suffian@jinnah.edu](mailto:m.suffian@jinnah.edu)

**Abstract:** Smart home services is an android based mobile application. The application connects people who are looking for home repair services and maintenance services with top-quality, pre-screened workers. The application primarily offers four maintenance services: 1. Electrician 2. Plumber 3. Carpenter and 4. Painter. The application contains two types of stakeholders: 1. Clients (service seekers) 2. Service Providers.

**Tools & Technologies** Android Studio Java Photoshop Firebase Google APIs

**Relevant Industry:** Home Maintenance / Construction / Civil Work

**Project Code:** CAP-BS5

**Project Title:** Complaint Management System

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**Supervisor:** Mr. Adil Rao [adil.rao@jinnah.edu](mailto:adil.rao@jinnah.edu)

**Abstract:** Complaint Management is an android based mobile application which contains features, such as a centralized location for customers to report complaints, a system for storing complaints, a process for logging complaints, a method for acknowledging complaints and process for investigating complaints and then a way of resolving and following up with the complaints.

**Tools & Technologies** Xml Java Firebase Notifications MySQL .Net

**Relevant Industry:** Private / Government Organizations

**Project Code:** CAP-BS6

**Project Title:** Image Strainer

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**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** An android mobile application which allows users to filter out their images by using face recognition. Users can recognize their face and that will be compared with all the faces of images that a gallery contains and finally a new folder will be created into gallery and those images which have successfully compared will be transferred to that folder, as normally people find it hard to filter out their image data which consumes a lot of time and it also frustrating to go around thousands of images while filtering, so by reducing this factor things can get easy as people can easily filter out their images and they don't need to be frustrated about going through all the images which also helps saving time.

**Tools & Technologies** Java For Android + Open CV Android Studio

**Relevant Industry:** Android Mobile Users



**Project Code:** CAP-BS7

**Project Title:** Sauda

**Team:** Amir Anwar [sp15bs0017@maju.edu.pk](mailto:sp15bs0017@maju.edu.pk)  
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**Supervisor:** Miss. Nazish Nouman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** SAUDA is a web based application, where shopkeepers can register themselves and sell out their products online. The project aim is to provide a unique, effective and an efficient software solution to the customers (buyers) and the shopkeepers (seller) to interact online in term of selling and purchasing which can eventually saves the time and it also provides a hassle free platform for buyers and similarly for the sellers in term of generating revenue.

**Tools & Technologies** ASP.NET CORE [HTML5, CSS3, jquery, C#] SQL SERVER

**Relevant Industry:** E-Commerce

**Project Code:** CAP-BS8

**Project Title:** Face Detection Fashion Stream

**Team:** Syed Huzaifa Ali [sp15bs0092@maju.edu.pk](mailto:sp15bs0092@maju.edu.pk)  
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**Supervisor:** Dr. Asim Wagan [asim.wagan@jinnah.edu](mailto:asim.wagan@jinnah.edu)

**Abstract:** Face detection fashion stream is a face detection and object placing application, where users can apply facial objects on his / her face through mobile camera and can see how the applied objects look on their face. The application detects the face and other facial expressions which can be automatically placed on user's face. Using such features can save users time and can also help them to buy suitable fashion accessories.

**Tools & Technologies** C# , C-PP, Unity, Open-CV, C-make, Dependence Walker

**Relevant Industry:** Fashion

**Project Code:** CAP-BS9

**Project Title:** Study Room

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**Supervisor:** Miss. Quratulain Mastoi [quratulain@jinnah.edu](mailto:quratulain@jinnah.edu)

**Abstract:** An online study room is android based mobile application, where teachers and students can interact with each other through live chat or video calling. The teachers can create a classroom which can be shared with the concerned students, accordingly.

**Tools & Technologies** Android - Java, Backend Web Api's - Dot Net

**Relevant Industry:** Educational

**Project Code:** CAP-BS10

**Project Title:** My Consultant

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**Supervisor:** Miss. Fouzia Naz [fouzia.naz@jinnah.edu](mailto:fouzia.naz@jinnah.edu)

**Abstract:** MY Consultant is an Android and iOS based mobile application which can provide a platform for ordinary people to virtually interact with the professionals from different sectors, and domains through live chatting or online video calling. The end users can no longer have to worry about visiting consultants physically.  
The application will be uploaded on Playstore and Appstore for commercial purpose.

**Tools & Technologies** iOS - Swift 4.1, Android - Java, Backend Web Api's - PHP, mysql

**Relevant Industry:** Healthcare / Real Estate / Educational etc.

**Project Code:** CAP-BS11

**Project Title:** 3D Airplane Game with A Leap Motion Experience

**Team:** Syed Hassan Baqir [fa14bs0034@maju.edu.pk](mailto:fa14bs0034@maju.edu.pk)  
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**Supervisor:** Miss. Ishrat Fatima [ishrat.fatima@jinnah.edu](mailto:ishrat.fatima@jinnah.edu)

**Abstract:** 3D Airplane game with a leap motion experience, which provides users a unique experience. In term of fun and entertaining. User can choose different airplane models that can be vary in look and performance and the game has different levels.  
By using a Leap Motion sensor users can control their Airplane with the hand gesture and unlocks the full potentials of the game.

**Tools & Technologies** Unity 3D XAMPP C#, PHP Adobe Photoshop Visual Studio 2017

**Relevant Industry:** Gaming

**Project Code:** CAP-BS12

**Project Title:** MAJU Leave Management System

**Team:** Talha Farooqui [sp15bs0038@maju.edu.pk](mailto:sp15bs0038@maju.edu.pk)  
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**Supervisor:** Miss. Nazish Nauman [nazish@jinnah.edu](mailto:nazish@jinnah.edu)

**Abstract:** MAJU leave management is an Intra net based system which can be accessed throughout the university or within a specified department. This system can be used to automate the work flow of leave applications and its approval processes. The periodic crediting of leave is also automated.

There are features like email notifications, automatic approval of leave, report generators etc in this system. Leave management system can reduce paper work and maintains record in more efficient way.

**Tools & Technologies** Bootstrap, HTML/CSS, SQL Server, Visual Studio

**Relevant Industry:** Educational

**Project Code:** CAP-BS13

**Project Title:** Person Authentication Using Facial Recognition

**Team:** Syed Wajeeh Raza [sp15bs0009@maju.edu.pk](mailto:sp15bs0009@maju.edu.pk)  
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**Supervisor:** Mr. Hafiz Sohaib [hafiz.sohaib@jinnah.edu](mailto:hafiz.sohaib@jinnah.edu)

**Abstract:** Person authentication using facial recognition is a face detection system which can work in real time environment by catching the facial structures of humans and comparing them with the stored information in the database. Once a face is matched then the user is authorized to have access.

Databases information would be encrypted and stored on cloud storage. This system would be developed in the formation of a desktop application.

**Tools & Technologies** Night Vision Cameras, Python, Mockup Plus, HTML, CSS, cloud Storage

**Relevant Industry:** Surveillance & Security

**Project Code:** CAP-BS14

**Project Title:** Facial Recognition Attendance System (FRAS)

**Team:** M. Asim Aslam [sp14ps0083@maju.edu.pk](mailto:sp14ps0083@maju.edu.pk)  
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**Supervisor:** Miss. Ishrat Fatima [ishrat.fatima@jinnah.edu](mailto:ishrat.fatima@jinnah.edu)

**Abstract:** Facial recognition attendance is a web based system made for MAJU students to make attendance through system in classrooms. The primary objective of this system is to provide relief to the faculty members who take attendance manually which is quite chaotic and time taking.

Face detection technology has been extensively fascinated attention due to its massive market potential, the attendance is logged by using a webcam that is capturing multiple images of students, detect the faces in images and compare the detected faces with the database and marks the attendance, accordingly.

**Tools & Technologies** Front-End: (HTML5, CSS3, AngularJS) Back-End: (Python 3) Database: (SQLite) HARDWARE: (Webcam)

**Relevant Industry:** Educational



**Project Code:** CAP-BS15

**Project Title:** Online Hostel Allocation System

**Team:** Vinod Kumar [sp15bs0104@maju.edu.pk](mailto:sp15bs0104@maju.edu.pk)  
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**Supervisor:** Miss. Fouzia Naz [fouzia.naz@jinnah.edu](mailto:fouzia.naz@jinnah.edu)

**Abstract:** Online hostel allocation system is a web and android mobile based application.

The application aim is to resolve students accommodation issue who move to other cities for studies. The application keeps the record of available hostels of different cities so that the hostel seeker can find the available hostels and can get accommodated, accordingly.

**Tools & Technologies** CSS, HTML, Bootstrap, Sublime Text, Android Studio, JSON(JavaScript object Notation), PHP(Web browser) and MYSQL Server.

**Relevant Industry:** Hospitality / Educational

<b>Project Code:</b>	<b>CAP-BS16</b>
<b>Project Title:</b>	<b>Hashtag Suggestor for Tweets</b>
<b>Team:</b>	<b>Syed Faizan Ali</b> <a href="mailto:sp15bs0025@maju.edu.pk">sp15bs0025@maju.edu.pk</a>
<b>Supervisor:</b>	<b>Mr. Yaseen Khan</b> <a href="mailto:yaseen.khan@jinnah.edu">yaseen.khan@jinnah.edu</a>
<b>Abstract:</b>	<b>Hashtag suggestor is a research based web application where user’s behavior can be seen through appropriate hashtag for digital marketing and micro blogging. The application takes input in the form of JSON or CSV data set to produce a suggesting model for generating hashtags. The application can also generate statistical summary and reports.</b>
<b>Tools &amp; Technologies</b>	<b>Python 3.0, Anaconda 3, Spyder 3, Python web framework Django, SQLite, HTML 5, JS /JQUERY, JSON</b>
<b>Relevant Industry:</b>	<b>Digital Marketing &amp; Micro Blogging</b>

**Project Code:** CAP-BS17

**Project Title:** Pickers

**Team:** M. Ibrahim [sp14bs0027@maju.edu.pk](mailto:sp14bs0027@maju.edu.pk)  
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**Supervisor:** Mr. Adil Rao [adil.rao@jinnah.edu](mailto:adil.rao@jinnah.edu)

**Abstract:** Pickers is a cross-platform application which allows its users to make online order of sweets and bakery items according to their choice and interest.

**Tools & Technologies** Java, SQL lite, Android Studio

**Relevant Industry:** Food Delivery

**Project Code:** CAP-BS18

**Project Title:** MAJU Social Network

**Team:**

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**Supervisor:** Miss. Fouzia Naz [fouzia.naz@jinnah.edu](mailto:fouzia.naz@jinnah.edu)

**Abstract:** MAJU social network is a web-based social network developed for Mohammad Ali Jinnah University, Karachi. The portal can be used for building a platform where the students can share their ideas and concerns on their profile timeline.

The Maju social network functions like Facebook and Twitter and it is specifically developed for MAJU students.

**Tools & Technologies** Frontend : HTML, CSS, JavaScript, JQuery, Bootstrap Back end : PHP and MySQL

**Relevant Industry:** Social Networking

**Project Code:** CAP-BS19

**Project Title:** Smart Disaster Management System

**Team:**

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**Supervisor:** Mr. Osama Khan [osama.khan@jinnah.edu](mailto:osama.khan@jinnah.edu)

**Abstract:** Smart disaster management is a web based system, which provides prior alerts regarding any disastrous situation to be occurred, and it also provides updates of the post disaster news and information.

**Tools & Technologies** ASP.NET, Android Studio, Angular 4, Java, XML, HTML5 & CSS 3, Rest Full API

**Relevant Industry:** Disaster Management

**Project Code:** CAP-BS20

**Project Title:** Head Counter & Fire Detector

**Team:**

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**Supervisor:** Miss. Kanwal Iqbal [kanwal.iqbal@jinnah.edu](mailto:kanwal.iqbal@jinnah.edu)

**Abstract:** Head counter & fire detector system aim is to keep the people and their properties safe in any fire disastrous situation. As any fire department advises you, in a fire emergency, a few seconds could save lives. As a result, organizations should be aware of their fire risks within their working environment and take appropriate steps to prevent fires as well as installing systems to alert personnel if a fire event occurs.

In case of any emergency the detector system will send an automatic email and SMS through GSM Device to the respective person and authorities.

**Tools & Technologies** C# , Visual Studio 2015 SQL Server IP Camera Core i3 System

**Relevant Industry:** Disaster Management

**Project Code:** CAP-BS21

**Project Title:** SEUL Soldier

**Team:**  
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**Supervisor:** Mr. Ibad Rehman [ibad.rehman@jinnah.edu](mailto:ibad.rehman@jinnah.edu)

**Abstract:** SEUL soldier is a Zombies shooting game. The primary theme of the game is about a character called "SEUL, who stuck into a prison, where he fights with the zombies by using a shooting gun in order to survive.

**Tools & Technologies** Hardware: Android Phone Compatible system for Unity 3d and Maya Software: Unity 3d Maya Justinmind (Prototyper) Adobe Photoshop Adobe Illustrator Visual Studio Audacity, Zedge (for audio music) Sony Vegas pro (audio and video editor)

**Relevant Industry:** Gaming

**Project Code:** CAP-BS22

**Project Title:** Loan Originating System

**Team:** Shabar Abbas [sp15be0020@maju.edu.pk](mailto:sp15be0020@maju.edu.pk)  
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**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** Loan originating is a web based system, which handles all loan origination related transactions in a very accurate and convenient way. It is very helpful for the banking staffs who are in the charge of loan issuance by providing user friendly and understandable interface for each stage of loan issuance from user administration up to verification and final decision of loan issuance as per defined in bank policies.

**Tools & Technologies** C#, ASP.net, MS Sql Server

**Relevant Industry:** Banking



**Project Code:** CAP-BS23

**Project Title:** Underwater Surveillance System

**Team:** Azfar Pervez [sp15bs0013@maju.edu.pk](mailto:sp15bs0013@maju.edu.pk)

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**Supervisor:** Mr. Waheedudin [waheed.hayder@jinnah.edu](mailto:waheed.hayder@jinnah.edu)

**Abstract:** Underwater surveillance system provides surveillance of the deep seas, this task as it covers the biggest portion of the world and it's mostly done by submarines which requires manpower, constant mobility and high maintenance. Another purpose is to create underwater more secure without worrying external interference. As we know Pakistan is one of the developing countries in the world and region this project will provide underwater surveillance by detecting intrusions using wireless nodes that would detect if any intrusions occurs in specified area by transmitting and also receiving ultrasonic aquatic waves and converting them to electrical signals to provide alarm or indication over a distance.

**Tools & Technologies** Arduino, Matlab and Android Studio

**Relevant Industry:** Military / Telecommunication

**Project Code:** CAP-BS24

**Project Title:** Disaster Rescue System

**Team:** Adeel John Gill [sp14bs0071@maju.edu.pk](mailto:sp14bs0071@maju.edu.pk)  
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**Supervisor:** Mr. Waheedudin [waheed.hyder@jinnah.edu](mailto:waheed.hyder@jinnah.edu)

**Abstract:** A new sensitive microwave life-detection system which can be used to locate human subjects buried under earthquake rubble or hidden behind various barriers has been constructed. By advent of this system the world death rate may decrease to greater extent as large percentage of death occur due to earthquake. This system operating at 1150 MHz or 450 MHz can detect the breathing and heartbeat signals of human subjects through an earthquake rubble or a construction barrier of about 10-ft thickness.

**Tools & Technologies** Aurdino and Microwave Base

**Relevant Industry:** Electronics / Telecommunication

**Project Code:** CAP-BS25

**Project Title:** Appliances Automation

**Team:** John Abbas Jaffery [sp15be0001@maju.edu.pk](mailto:sp15be0001@maju.edu.pk)  
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**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** Appliance automation is a user friendly solution for power controlling and to monitor home appliances connected with hardware through Wifi. The project is an application of Internet of Things (IOT), which is one of the most emerging fields these days.

**Tools & Technologies** Embedded Programming on Arduino IDE (C++) , Android Studio, Google Firebase Real Time Database

**Relevant Industry:** Power Management / Physical Computing

**Project Code:** CAP-BS26

**Project Title:** Routee

**Team:** Noman Ali [sp13be0005@maju.edu.pk](mailto:sp13be0005@maju.edu.pk)  
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**Supervisor:** Miss. Fouzia Naz [fouzia.naz@jinnah.edu](mailto:fouzia.naz@jinnah.edu)

**Abstract:** Routee is the control center where you may generate KPI statistics reports in real-time or historical from. It is a user-friendly web-based environment. The power of the application lets you see millions of events as it happens.

The interface can be easily set up according to who uses it so that different user groups can get the most meaningful information - such as engineers, destination managers, etc.

**Tools & Technologies** Python 3.0, Node JS, Angular JS, Socket IO

**Relevant Industry:** Telecommunication

**Project Code:** CAP-BS27

**Project Title:** Augmented Reality Game (Using Leap Motion)

**Team:** Osama Haris [sp14bs0108@maju.edu.pk](mailto:sp14bs0108@maju.edu.pk)  
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**Supervisor:** Miss. Quratulain Mastoi [quratulain@jinnah.edu](mailto:quratulain@jinnah.edu)

**Abstract:** Augmented Reality game uses leap motion controller that can detect gamer's hands motion. The game provides a real-world environment to end users. The application runs with the help of VR gear and leap motion controller device. The application has multiple levels with different environments like jungle, haunted house and castles etc. The game can be run on android and desktop and the database can store information like saved games, best score, progress, etc. on persistent storage as a file. The leap motion controller is a small USB device that plugs into the computer using LED lights and camera sensors The leap motion controller scans an area of roughly 8-cubic feet (2x2x2) above the device.

**Tools & Technologies** Unity 3D Blender leap motion core asset 4.3.4 unity mono developer leap motion controller device leap motion orion 3.2.1

**Relevant Industry:** Gaming

**Project Code:** CAP-BS28

**Project Title:** School Management System

**Team:** Wasif Ali [fa13bs0055@maju.edu.pk](mailto:fa13bs0055@maju.edu.pk)

**Supervisor:** Miss. Hira Farman [hira.farman@jinnah.edu](mailto:hira.farman@jinnah.edu)

**Abstract:** School management is a web based system, which manages students, teachers and staff attendance through RFID, and also manages accounting and other administrative activities.

**Tools & Technologies** JavaScript , PHP , MYSQL, HTML 5, Bootstrapping , CSS

**Relevant Industry:** Educational

**Project Code:** CAP-MCS1

**Project Title:** Pharma Online

**Team:** M. Arslan Khan [fa17mcsw0012@maju.edu.pk](mailto:fa17mcsw0012@maju.edu.pk)

**Supervisor:** Miss. Quratulain Mastoi [quratulain@jinnah.edu](mailto:quratulain@jinnah.edu)

**Abstract:** Pharma online is an ecommerce portal, where the users can buy medicines online. The portal caters original medicines which are not easily available in the market, it also deals with the licensed medicines with a warranty as sometimes medical stores don't sell original products.

**Tools & Technologies** Microsoft Asp.net core Microsoft sql Server, Microsoft signal R

**Relevant Industry:** E-Commerce / Pharmaceutical

**Project Code:** CAP-MCS2

**Project Title:** Accounts Solution

**Team:** Sultan Mehmood [fa17mcsw0021@maju.edu.pk](mailto:fa17mcsw0021@maju.edu.pk)

**Supervisor:** Mr. Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** The issue of manual accounting is very difficult in any organization, especially in the banks and other large accounting institution, so to minimize the manual work the accounts solution enables to login the system and inserts a new record, updates existing record, deletes an existing record and it can be viewed a specific or whole record. The accounts solution system keeps important information at your fingertips and it also generates different accounting reports as per the business user search criteria.

**Tools & Technologies** Visual Studio Asp.Net SQL Server HTML

**Relevant Industry:** Government and Private Organizations



**Project Code:** CAP-MCS3

**Project Title:** Biometric Voting System

**Team:** Ehtesham Mukhtar [sp16mc0001@maju.edu.pk](mailto:sp16mc0001@maju.edu.pk)

**Supervisor:** Mr. Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** As transparency of the manual voting process always remains doubtful. Therefore, in order to overcome the complications during the election process and to maintain the transparency of this process, there is a need to establish a reliable, trustworthy and the foolproof mechanism for the election process. The biometric voting system is the only way is to implement the secure, reliable and trustworthy mechanism for the voting system.

**Tools & Technologies** Oracle 12-C Database Oracle WebLogic Server  
Infrastructure Oracle Forms and Reports Oracle Java SE  
Development Kit Microsoft Visual C++ Runtime Libraries  
with service pack 1

**Relevant Industry:** Election Commission

**Project Code:** CAP-MCS4

**Project Title:** Airline & Hotel Reservation System

**Team:** Umair Ashfaq [sp17mcsw0018@maju.edu.pk](mailto:sp17mcsw0018@maju.edu.pk)

**Supervisor:** Miss.Kanwal Iqbal [kanwal.iqbal@jinnah.edu](mailto:kanwal.iqbal@jinnah.edu)

**Abstract:** Airline and reservation system is a web application where the users can buy tickets online and can also get hotel booking done. The system also provides the facility to get printouts of the airline ticket. The users can find the hotel location by using Google location during visiting the new cities.

**Tools & Technologies** Java , SQLite , Android Studio , PHP Slim 3 Framework for admin panel , MySQL database for admin panel , Google API Key for tracking of locations.

**Relevant Industry:** Travel

**Project Code:** CAP-MCS5

**Project Title:** Online Catering Services

**Team:** M. Naveed Khan [sp16mc0018@maju.edu.pk](mailto:sp16mc0018@maju.edu.pk)

**Supervisor:** Mr. Ibad Rehman [ibad.rehman@jinnah.edu](mailto:ibad.rehman@jinnah.edu)

**Abstract:** Online Catering Service is a web based application which can provide list of catering service providers. The application admin can give access to catering service provider by assigning a unique id to them. After being assigned a unique id, catering service providers can log in to the web application and can upload their food items. Users can register themselves by a general signup form, after being signed up the users can view different catering service providers and can place orders from the available catering service providers by comparing their food items and rates with other catering service providers.

**Tools & Technologies** HTML5, CSS, Bootstrap, PHP & MYSQL

**Relevant Industry:** Event Management

**Project Code:** CAP-MCS6

**Project Title:** Eat Right

**Team:** Mubbara Shabir [fa16mcsw0018@maju.edu.pk](mailto:fa16mcsw0018@maju.edu.pk)

**Supervisor:** Mr. Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** Eat Right application can provide complete guideline in perspective of healthy diet. The application addresses the problems facing by people who are diet or health conscious but don't get time out of their hectic schedule.

The application complete solution of choosing right meals of day that can be healthy as well as full of nutrition.

**Tools & Technologies** Android Studio, SQLite Balsamic (MockUps)

**Relevant Industry:** Food & Nutrition

**Project Code:** CAP-MCS7

**Project Title:** School Labs

**Team:** Naila Zakki [fa16mcsw0014@maju.edu.pk](mailto:fa16mcsw0014@maju.edu.pk)

**Supervisor:** Miss. Safiyah Batool [safiyah.batool@jinnah.edu](mailto:safiyah.batool@jinnah.edu)

**Abstract:** Schools labs is a simulation system regarding the practical systems of class 9 to 12 which can help to deliver the information in a batter way and can also help the teachers.

The system can be helpful for those institutions which cannot afford the high budgets to buy lab instruments and also cannot afford having physical spaces to create labs. 3 subjects Physics, Chemistry and Mathematics will be taught through the simulator. The ideas has been taken from the simulators called Elmer & DWSIM.

**Tools & Technologies** Unity software & 3D Max Studio

**Relevant Industry:** Educational

**Project Code:** CAP-MCS8

**Project Title:** Online Teachers Recruitment System

**Team:** Samreen Khizer [sp16mc0013@maju.edu.pk](mailto:sp16mc0013@maju.edu.pk)

**Supervisor:** Mr. Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** Modern schools need new generation teachers and subject specialist for effective school performance in term of improving the outcomes of students and in broader prospects the outcome of nation.

On the other hand the qualified teachers also need right jobs. Online teacher's recruitment is a web based system, which aims provide the best recruitment services to school teachers and also to the schools. This is an integrated service that offers one of the best ways to automate the teachers' recruitment process.

**Tools & Technologies** PHP - MYSQL - HTML- CSS- JQuery - Bootstrap

**Relevant Industry:** Educational / Recruitment Agencies

**Project Code:** CAP-MCS9

**Project Title:** Employee Information System

**Team:** Muhammad Aman [fa16mcsw0011@maju.edu.pk](mailto:fa16mcsw0011@maju.edu.pk)

**Supervisor:** Mr. Imran Ali [imran.ali@jinnah.edu](mailto:imran.ali@jinnah.edu)

**Abstract:** Employee information system is an online employee self-service, leave management, training scheduling and notification announcement system. The system facilitates employees who are travelling or working abroad where they need to access and perform HR related activities.

The system can benefit organizations with the ability to enhance their businesses by giving online platform to their employees.

**Tools & Technologies** Oracle Apex (5.1.4.00.08) Front-end, Oracle Database 12c Release 2 (12.2.0.1) Back-end

**Relevant Industry:** Small and Medium sized Enterprises

**Project Code:** CAP-MCS10

**Project Title:** Smart Fire Evacuation System

**Team:** Anum Aslam [sp16mc0002@maju.edu.pk](mailto:sp16mc0002@maju.edu.pk)

**Supervisor:** Miss. Safiyah Batool [safiyah.batool@jinnah.edu](mailto:safiyah.batool@jinnah.edu)

**Abstract:** IoT-based intelligent fire emergency response systems and mobile application developed to save lives in case of a fire hazard, as due to high-rise buildings being complex and compact, depending too much on mechanical equipment like escalators, elevators etc. which in case of a fire breakout can be an accessory to greater danger as they can blow up causing multiple casualties. Hence, the system facilitate quick and safe evacuation of people out of the building exits during such devastating breakouts which can be due to natural disasters such as fire, building collapse, or an earthquake etc. when vision impairment may occur (e.g., by smoke).

**Tools & Technologies** SOFTWARE: NetBeans 8 Android Studio 2.3 SDK 1.4.1  
Microsoft SQL server HARDWARE: Fire sensor Smoke sensor. Power supply

**Relevant Industry:** Disaster Management



**Project Code:** CAP-MCS11

**Project Title:** Step Up Delivery

**Team:** Bushra Kazmi [sp16mc0016@maju.edu.pk](mailto:sp16mc0016@maju.edu.pk)

**Supervisor:** Mr. Ibad Rehman [ibad.rehman@jinnah.edu](mailto:ibad.rehman@jinnah.edu)

**Abstract:** Step up delivery facilitates the users to buy stuff from super marts online. It can save customers' time and it also benefits the super marts to generate revenue.

**Tools & Technologies** PHP, HTML5, CSS3, JavaScript, JQuery, Xampp

**Relevant Industry:** E- Commerce / Retail Management

**Contact:**

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