



FYP

Final Year Projects

Distinguished FYPs

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Supervisor	Title	Brief Description
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Final Year Projects >		

Ideas for Students

CS faculty is invited to share ideas for students interested in FYP by sending all information to secretary as per below format.

Following are links to already completed FYP's by students of CS & SE at CUI Lahore Campus

<http://dspace.cuilahore.edu.pk/xmlui/handle/123456789/1343> (Downloadable FYP Reports)

<https://cuonline.cuilahore.edu.pk/lims/Forms/SearchThesis.aspx> (Provides Access Number to stored FYP CD's at CUI Lahore Campus Library)

Dear Students:

1. Below ideas are intellectual property of their supervisors (see Supervisor column in below table). If you want to work on an idea, you must choose the same supervisor who proposed the idea. If for some reason, you want to work with some other supervisor on same idea, you must get written permission from the original supervisor. Otherwise, strict action would be taken against you.
2. Projects are listed below by date in descening order i.e. most recently sent project ideas are at top.
3. Some of the below projects are not available for supervision. They are here for record and to help you avoid repetition of ideas. So, do not contact those supervisors, because the projects are already taken. **See column: Available for Supervision**

Muhammad Farhan	Quranic calligraphy recognition and its AR based graphical description	This project proposes a camera based application that can detect the Quranic text of the short Surahs of Quran (mainly the last 14) and presents an augmented reality based video description. Many a times the reciter of the Quran comes across the	Pattern Recognition/ Machine Learning	Machine Learning/Go od Programming skills	Research & Development	Yes
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Supervisor		Title		Brief Description	
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		<p>or transliteration and wants to be aware of the meanings or context. There are many applications that provide excessive knowledge and information related to the Quran, usually in the form of audio or text based Tafseers, however there is much need for an application that can directly detect the surah and provide a graphical video based description of the surah. The video description might include animated video presenting the translation as well as a short tafseer in the form of graphical stories.</p>			
Muhammad Farhan	Online-Assessment proctoring	This project will focus on the need to develop a web based application that can monitor the activities of students during an online assessment.	Computer Vision/Video analysis	Good Programming skills	Development (Application) Yes

Supervisor		Title		Brief Description		
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		that helps to achieve the most accurate results. Video data from webcam as well as the screenshots after a fixed interval of time in milliseconds would be analyzed to track the Eye Gaze of the user for an efficient suspicion detection. Also the lips would be monitored for talking detection. The application would keep record of all the suspicious activities during the course of online assessment for each student in a database.				
Dr.Salman Khan	Scalable Automated Assessment System for Programming Assignments	In our newly completed project, we need final year students to incorporate cheaper scalable solution that can support the automated assessment of hundreds of students. For this purpose we require smart algorithms and	web development /software engineering	Good programming skills	Research & Development	Yes

Supervisor		Title		Brief Description		
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		developed by using service oriented architecture where each module operates as independent service. After completing this project, we aim to deploy this system in our own department and another public sector university.				
Humaira Afzal	Game based learning	Unified Modelling Language (UML) has become the standard language for the design and analysis of object-oriented software concepts. Number of tools are available that support design with UML, But they only provide the facility to draw UML diagrams and generate code from the UML model. So far no tool provides the environment to learn different concepts of UML. Exploration games are also introduced to guide the software	Game Development	Good programming skills	Research & Development	Yes

Supervisor	Title	Brief Description
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	<p>s. But they are not provided the step by step learning of different UML diagrams. The aim of this project is to develop the concepts of UML by providing the learning environment . We are going to develop an educational application called "UML guide for beginners". The application will make the developer learn the basics and cores of Unified Modelling Language. To maintain the interest of user/developer we will be using gamification approach (use of game elements for educational purpose). This gamified experience will have perpetual impact on the user/developer. In this way we believe that the modelling deficiencies will be raised above</p>	

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Afzal	Site	could be similar to OLX or Daraz but the extra feature could be video calling. To create a mobile application which will aid in the selling and buying of items online. The main aim of the application is to build is to try and reduce the number of items being returned to help increase business revenue. By integrating videocall into buying and purchasing allows the customer to see the product before coming into physical contact with the product. This will remove any doubt when buying as the customer is 100% sure that the product is what they intend it to be and of satisfactory quality	Development	programming skills and Database	t (Application)	
Humaira Afzal	e-Learning platform	In this project, you will build a sharable e-learning	Web Development	Good programming skills and Database	Development (Application)	Yes

Supervisor	Title	Brief Description
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	powered by cloud computing would allow the independent Learning Management Systems (LMS) embedded in various e-Learning standards to share their learning objects, modules, and content. Basically, cloud computing will encourage the sharing of a wide range of learning objects, allowing learners to access them online easily. The project has a three-layer architecture to facilitate sharing learning modules, reusing them, and interoperability among different learning content efficiently. The middle layer of the infrastructure contains an indexing module and a metadata transformation module to encourage the exchange of metadata among	

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Afzal		items platform of premium items such as electronics (there are rarely any of these present). Olx etc etc are there but they are for sale and not for rental purposes.	Development	programming skills and Database	t (Application)
Humaira Afzal	Android task monitoring	This project is exclusively designed to simplify the tracking and monitoring of day-to-day activities of the busy modern life. We are so busy in our daily lives right now that it becomes impossible to keep track of our daily events, meetings, and appointments. To address this issue, this project focuses on developing a Weekly Task Alerting System for Android devices that can alert users of the tasks/appointments that are scheduled for each day in a week. The project is primarily a reminder app	Android Development	Good programming skills	Development Yes (Application)

Supervisor	Title			Brief Description	
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	that are due daily. Users can use this application to set goals and achieve them, thereby increasing productivity and simplifying their lives.				
Humaira Afzal	A premium quality freelance marketplace made specifically for Pakistani freelancers, that hires only a certain set of experts based on a recruitment process (involves live interview, some assessments, etc). The platform services favours freelancers since they the platform service percentage cut would be anywhere between 5-10% (half of what it is currently), better financial rewards since only a quality set is being recruited. On the other hand, buyers would also benefit since they get the top-notch talent in a marketplace	Web Development	Good programming skills and Database	Development (Application)	Yes

Supervisor		Title		Brief Description	
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		available ones.			
Sana Maqbool	Smart health in IOT using BAN	the concept of m-health has been the concept of m-health has been introduced which give understanding of matching the m- health and Internet of things with respect to their functionalities in the advance applications of fourth generation. The diabetes is a well- known disease because of its chronic long term effects in both economic and social aspects. In this paper we address the IoT by opto-physiological accessing techniques for measuring the glucose level and discuss the diabetes management. We are aiming towards the connectivity and management of heterogeneous devices from perspective of healthcare in	SE ,networking, wireless network connectivity	SE ,networking, wireless network connectivity	Development (Application) Yes

Supervisor		Title			Brief Description	
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		<p>communication between diabetic patient and the hospital or clinician introduced which give understanding of matching the m- health and Internet of things with respect to their functionalities in the advanced applications of fourth generation. We are aiming towards the connectivity and management of heterogeneous devices from perspective of healthcare in mobile network. This technology makes able the route of communication between patient and hospital</p>				
Sheeza Zaheer	Learn Together	This idea focuses on developing an application in which short animated videos will be made for teaching childrens the basic moral of life. e.g. to start eating with BISMILLAH. There will	Android Development, Computer Graphics	Good Programming Skills, Graphic Design	Research	Yes

Supervisor		Title		Brief Description		
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		developing an application in which child specialists and nutritionists are added on a single platform. Parents from all around the world contact them and get guidance from them. Further, there will be a community garage where all parents can share their innovative ideas that they have practiced with their children or can ask general questions. Parents can also share videos of their childrens doing some innovative work.		g Skills, Database (Application)		
Sana Maqbool	1. Visual Analysis of Author Impacts and Bibliometric Data	This study is about the visual analysis of author impact and other bibliometric data such as an author's publication history. It utilizes Publish or Perish as a data source, which is a search tool to find this bibliometric data.	Artificial Intelligence	Knowledge of Artificial Intelligence, SE & Database	Development (Application)	Yes

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		find and define notable publications, to draw a number of different conclusions, such as how much impact an author has had in a given field. To do this we use information visualization techniques. Information Visualization is a field of science about increasing insight and understanding of raw data. It does this by researching on details of human cognition and perception and how data itself is modelled, and by categorizing and developing new ways to encode and interact with data visually.				
Sana Maqbool	2. A Roadmap for Usability and User Experience Measurement During Early Phases of Web Applications Development	Web usability and User Experience (UX) play a vital role in the success and failure of web applications. However, the usability and UX measurement during the software	Web Development	SE, Project Management	Development (Application)	Yes

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		usability and user experience evaluation and measurement methods and the defined measures as well as their applicability during the software development life cycle.				
Iqra Obaid	Gamification for Job training Chalanges	The recruitment, engagement , and training of the employees are among the core and critical roles for running an organization successfully. Gamification has been proven to be a promising tool that offers many innovative solutions for various domains. The traditional recruitment process includes job advertisement, resume submission, test conduction, and interview conduction. These conventional methods of recruitment have helped to predict job performance to some extent but have proven	Game Development t	Game Development t	Development t (Application)	Yes

Supervisor		Title			Brief Description	
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		gamified job training or employee engagement application should be developed to help the organizations.				
Dr. Muhammad Tayyab Chaudhry	Smart IoT Devices	These projects are related to creation of smart/intelligent devices for IoTs. For further details and discussion, please contact Dr. M. Tayyab Ch, at Room 122 PhD block, CUI Lahore, or email to tayyabch@cuiilahore.edu.pk	Artificial Intelligence, Databases, Web Technologies, (optional) Arduino/Raspberry.pi knowledge	Artificial Intelligence, Databases, Web Technologies, (optional) Arduino/Raspberry.pi knowledge Only CGPA 3.0 or above required, the students will make the prototypes during FYP1.	Research & Development	Yes
Nadeem Ghafoor Chaudhry	A multimedia based Seerat-UN-Nabi website	It is an unfortunate reality that the habit of book reading is dying a fast death. Forget about ordinary people, university students try to avoid reading textbooks and want to watch video lectures instead. This means that books on Seerat-UN-Nabi, i.e life of Hazrat Muhammad ﷺ are also not going to be read as much as they should	Web Development	Good Programming Skills	Development (Application)	Yes

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	<p>Muhammad ﷺ is extremely important. He is our role model and we are supposed to live our lives based upon his life. But how can we do that if we are not fully aware about his life? It is not only us Muslims, who need to know about his life, but non-Muslims who are curious about him also need to know. Here is a very interesting and very short video https://www.youtube.com/watch?v=L1pfyiM5-Gk about the impact one line, by Allama Iqbal, had on a New York City based professor. The line was "Sure you can deny God, but how do you deny Muhammad ﷺ?" In order to present life of Hazrat Muhammad ﷺ to the people of present world we need to employ methods of present world. It is</p>	

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		<p>based Seerat-UN-Nabi website". This will be a multi- lingual interactive website on which each day of the life of Hazrat Muhammad ﷺ will be presented in a chronologica l order. When the user clicks on a day he/she will be presented all the important details of that day from Seerat- UN-Nabi point of view. For example if the user clicks on 17th of Ramadan in the second year of Hijrah he/she will be presented all the details of Battle of Badr with maps, images etc of Badr.</p>				
Mr. Imran Raza	An Intelligent Brain Computer Interfacing (BCI) based personalized healthcare system for neuro- rehabilitation	Brain- Computer Interfaces (BCIs) is a rapidly evolving field that seeks direct interaction between the human brain and machines. In this project,	Machine Learning , Computer Networks	Strong OOP concepts ,Data Structures/D atabases , Knowledge of Machine Learning , Knowledge of Computer Networks	Research & Developmen t	Yes

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		System for Neurorehabilitation for people living with disabilities which can act as an auxiliary control to operate other devices to perform activities of daily livings (ADLs) e.g. robotic wheelchairs, tilt / recline hospital beds, remote-controls for TV, keyboards for PCs, smartphones/tablets, and videogame controllers. Interested			
Nadeem Ghafoor Chaudhry	Learning Management System (LMS) for Madaris of Pakistan	I have been running a project for teaching software development to madrissa students for last four years. The details are available at www.isdp.info There are several reasons for which I want to change the current single location, one year mode to a distributed three year mode. I can explain the details on a one to one meeting but	Software Engineering	Good programming skills	Development (Application) Yes

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		to help me manage this distributed mode of education. I will pay Rs 10,000 (Ten thousand) to the group if I get a well-documented , debugged, production quality product by December 1st, 2021. Feel free to contact me via email.				
Fareeha Iftikhar	Student Faculty Document Sharing Android Project	This project is an online portal between students and faculty. This innovative system allows college faculty to share important data as well as notifications with engineering students. It consists of a faculty login along with student login. Since college faculty operates through pc and document uploading is simpler through a pc, the faculty login is to be performed through a computer. Faculty may upload documents	Web/Android Development	Good programming skills and Database	Development (Application)	Yes

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		through their provided login. The documents are uploaded by faculty to different corresponding departments . We propose to build this system on an online server that allows faculty to upload data and students may view search and download required documents through their android device. Here students only see and download data of their particular semester. Rest data is hidden. Faculty may access and upload/edit documents to any semester or add any notice as desired.				
Fareeha Iftikhar	Android Attendance System Using RFID	Nowadays, parents are worried about their children because of the high rate of kidnapping. So, it is the responsibility for the school to take care of their students and they also	Android Development	Good programming skills and Database	Development (Application)	Yes

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	if the students are not at the school at school start time. This System ensures safety of the students by making their parents aware about the various important status about their students like in-time, out-time, everything about their arrival. By using RFID technology, it is easy to track student hence enhances the security and safety in selected zone. The information about student such as in time and out time from Bus and campus will be recorded to web based system and SMS will be automaticall y sent to their parents that the student arrived to Bus/Campus safely. SMS will be sent to parents whose children are absent without taking leave. The parents can log into android application	

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		on of School Security System via RFID to avoid crime, illegal activates by students and reduce worries among parents.				
Fareeha Iftikhar	Android Women Safety App	Women's safety is a big concern which has been the most important topic till date. Women safety matters a lot whether at home, outside the home or working place. Although the government is taking necessary measures for their safety, still, there are free safety apps for women that can help them to stay safe. Most of the females these days carry their smartphone with them, so it is necessary to have at least one the personal safety apps installed. Such a security app for ladies will definitely facilitate in a way or the opposite.	Web/Android Development Good programming skills and Database	Development (Application)	Development (Application)	Yes

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		has installed it in their smart phones. Our intention is to provide you with fastest and simplest way to contact your nearest help. In this system user needs to feed three contact numbers, in case of emergency on moving the phone up and down thrice, the system sends SMS and calls on one of the numbers feeded into the system with the location. The phone starts vibrating, and siren starts ringing. This features for both everyday safety and real emergencies , making it an ultimate tool for all.				
Fareeha Iftikhar	Daily Route Planner	Many people own small business, where they drive car from one point to many. For drivers of any kind where they are about to deliver any parcels or to use a direction, they can use	Web/Android Development	Good programming skills and Database	Development (Application)	Yes

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		<p>decision on what they should follow. This makes road trip easier and faster. This route optimization application will navigate your entire route in stop by stop sequence, from start to end. With this route optimizer application, travelling time can be saved and many places can be visited on the planned day. This android application can plan route for a road trip including all stops and make the trip easier and smoother. It can help with roundtrips which will last more than a day. Also, it will help any person to analyses in decision making with how many places he/she can visit in total with multiple stops within a time frame.</p>			
Fareeha Iftikhar	Smart Home Automation system using android App	A home automation system will control	Android Development	Good programming skills, Database,	Development (Application) Yes

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		It may also include home security such as access control and alarm systems. A home automation system typically connects controlled devices to a central hub or "gateway". The idea is to control all the devices and appliances using android app.				
Ms. Mamoonah Tasadduq	VirtualBookStore	When it comes to find a specific book then we need to search many book shops. This process not only costs towards travelling and time but is also much stressing sometimes. Hence, the idea behind this app is to connect all the data of book stores in your city/town. The application will also provide the nearest possible options based on your current location from where the	Web/Android Development	Good programming skills and Database	Development (Application)	Yes

Supervisor		Title		Brief Description		
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		be used by the service provider to supply online books based on the connected database.				
Ms. Mamoonah Tasadduq	e-Parking Challan	The main idea behind this project is to develop an app that can be used by the traffic police in case of wrong parking. Most of the times the car owners park their cars at wrong places and disappear for quite a long time. Whenever, a car is wrongly parked, the police instead of waiting for the owner, can take an image of the car and its license plate from their mobile phones. They will post the pictures into a central database from where the car owner will be fined and get an auto generated SMS for the details of its fine. This app would also provide to make available the violation	Android Development	Good programming skills, Database, Computer Graphics	Development (Application)	Yes

Supervisor		Title			Brief Description	
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		e-payment or can be added into the annual tax of the car.				
Dr. Zulfiqar Habib	SEHAT	The need of an online health care system has been seriously realized in the country due to inadequate medical facilities and human resources for most of the population near to the door steps. It becomes more important and sometimes mandatory for both patients and doctors to maintain the social distancing due to a large number of contagious viral attacks since many decades. COVID-19 is a recent example of corona virus outbreak, declared a pandemic by the World Health Organization (WHO) on March 11, 2020. Lock downs could be only way to reduce the spread until we have a			Research & Development	Yes

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	<p>population and common use of cell phones, motivate for the development of an online health care system. Existing e-healthcare systems are mostly informal and do not provide complete solution, therefore could not get popularity despite some of these were launched above two years ago. A mega project SEHAT (Smart & Economical Healthcare using Advanced Technology) is being developed to provide a remote end to end health care services. This is being completed in several phases of research and development in the domain of artificial intelligence, machine learning, cyber security, mobile & web applications, and big data</p>	

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		<p>areas will especially benefit from treatment at home and its inexpensive cost. Doctors will be able to look into the history of patients and treat accordingly. Data of patients will be utilized for the monitoring and prediction of diseases. Radiologists will be assisted through enhancement and auto diagnosis of medical images. Medical insurance companies, medical laboratories, pharmaceutical companies and medical representatives can easily market their products and provide services through this system. Your FYP will be the part of SEHAT to solve at least one of the major challenges being faced for its real practical application.</p>				
Dr. Zulfikar Habib	Brain tumor diagnosis	In collaboration with	VIG-Robotics, http://vig.cuil	Digital Image Processing	Research & Development	Yes

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Dr. Zulfiqar Habib	Traffic Management System (TMS)	In collaboration with Punjab Safe City Authority	VIG-Robotics, http://vig.cuitlahore.edu.pk	Digital Image Processing or Computer Vision	Research & Development	No
Shaina Ashraf	Celebrity Profiling Corpus and techniques	Celebrities are among the most prolific users of social media, promoting their personas and rallying followers. This activity is closely tied to genuine writing samples, rendering them worthy research subjects in many respects, not least author profiling. The Celebrity Profiling task is to predict different traits of a celebrity from their social media communication. The traits are the degree of fame, occupation, age, and gender. The social media communication is given as the teaser messages from past tweets. The goal is to develop a piece of software which predicts celebrity traits from	Natural Language processing, Machine learning, Data science	Good programming skills	Research	Yes

Supervisor		Title			Brief Description	
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		generated by collecting tweets from individual profiles.				
Mamoon Tasadduq	Public News Droid	Public News Droid is an Advanced and Informative System helping the users to know the news, articles or any interesting things happening around their Locality. This System helps the local public to keep themselves up to date about the happenings around their vicinity or locality or in their City.	Databases - Web development	Development	Development (Application)	Yes
Dr. M. Tayyab Ch.	Fake Profile Identification on Social Media	For details, please come for discussion	Web Programming	Java, Database Systems	Development (Application)	Yes
Humera Niaz	Farming Assistant Web Service	A Web project to help farmers ensure greater profitability through direct farmer to supplier and farmer to farmer communication. This innovative site allows for good farmer, retailer and supplier communication.	A Web project to help farmers ensure greater profitability through direct farmer to supplier and farmer to farmer communication. This innovative site allows for good farmer, retailer and supplier communication.	Good programming and database concepts	Development (Application)	Yes
Humera	Unique User	User may	Web	Good	Development	Yes

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		<p>timing, so user may not find his friends online when he logins to the particular social networking website. To overcome this issue proposed system will bring together our online friends on different social networking sites into a single integrated environment .</p>				
Humera Niaz	Android Based Parking Booking System	It provides customers an easy way of reserving a parking space online. It overcomes the problem of finding a parking space in commercial areas that unnecessary consumes time.	Web Development, Android Application	Good programming and database concepts	Development (Application)	Yes
Humera Niaz	Online Election System	Online Election System would have Candidate registration, document verification, auto-generated User ID and pass for candidate and Voters. Admin Login which will be handled by Election	Web Development, Data Base	Good programming and database concepts	Development (Application)	Yes

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		Voters will get Unique ID and Password, Using which they can vote for a Candidate only once per Election				
Ms. Kanza Hamid	Doctors on Hand	Main idea of this project is to make a hand held application through which patient do not further need to go doctor to doctor to find who is expert and can treat your disease. This application will find itself a most suitable/expert and nearest doctor according to your disease.	Natural Language Processing	Good programming skills.	Development (Application)	Yes
Ms. Kanza Hamid	A Liar Robot	Robots always tell us for what they are programmed / they always tell us the truth. But the idea of this project is to make an intelligent robot which can tell a lie as human do, so mimicking pure human behaviour.	Intelligent Machines and Robotics	Strong Programming skills with hardware level knowledge/ interested in learning, good in assembly language.	Research & Development	Yes
Sara Muneeb	Interactive Game to	According to the latest WHO data	Game Development, Data	Android Development, Database,	Research & Development	Yes

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	<p>reached 27,081 or 2.22% of total deaths. The age adjusted Death Rate is 15.42 per 100,000 of population ranks Pakistan #104 in the world. People get their driving license just by knowledge of driving. However, traffic rules are also important and majority drivers do not know all sign and rules on roads. Road traffic injuries is growing issue. Main causes which are found behind these road accidents are lack of training institutes, unskilled drivers. This game will help them learning driving rules in an interactive way and they will remember them for a long time. All rules are available in online book given by traffic police.</p>	
Dr.	Vehicular	Distributed Android Development Yes

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Sara Muneeb	Batch Advisory	This will be an online portal to help batch advisors. With this portal batch advisor will be able to decide if a student is capable of selecting the course he wants to opt for. This portal will minimize the time and workload spent in looking students schedule, class, clashes, prerequisite, ability to pick a course.	Web development , Database	Database and programming concepts for frontend and backend	Development (Application)	Yes
Nadeem Ghafoor Chaudhry	Urdu Based Medicine Compliance Application	According to the International Society for Pharmacoeconomics and Outcome Research (ISPOR), adherence is "the extent to which a patient acts in accordance with the prescribed interval, and dose of a dosing regimen. [1]" Medication nonadherence can affect patient health adversely, negatively impact a patient's relationship with his/her	Android Application Development	Good programming capability in Java	Development (Application)	Yes

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	<p>increase health resource consumption [2,3]. Medication nonadherence remains a common health care problem. Poor adherence causes approximately 33% to 69% of medication-related hospitalizations and accounts for \$100 billion in annual health care costs[4] Several application are available to provide help in this matter. Some example are PatientPartner http://mypatientpartner.com/#theapp Medisafe http://www.medisafeproject.com/ Dosecast http://www.montunosoftware.com/products/dosecast/about/ The problem is that these are English based applications whereas majority of our population does not understand English. We need a similar application,</p>	

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		Medication compliance and persistence: terminology and definitions. Value Health. 2008;11(1):44–47. [PubMed] 2. Ruddy K, Mayer E, Partridge A. Patient adherence and persistence with oral anticancer treatment. CA Cancer J Clin. 2009;59(1):56–66. [PubMed] 3. Waterhouse DM, Calzone KA, Mele C, Brenner DE. Adherence to oral tamoxifen: a comparison of patient self-report, pill counts, and microelectronic monitoring. J Clin Oncol. 1993;11(6):1189–1197. [PubMed] 4. Osterberg L, Blaschke T. Adherence to medication. N Engl J Med. 2005;353(5):487–497. [PubMed]				
Dr. Faizan Ahmad	Sentiment Analysis of Facebook Users: A Software System	Social media applications extremely reflect upon people sentiments.	Android Application Development	• Skilled in Java/Android and Databases. • Willing to learn new	Research & Development	Yes

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		identify the harmful factors that need to be eliminated as well as suggestion system can be proposed. Our emphasis will be to build an application for fetching data of Facebook by using Graph API, analyze the trend of data, and later offer a complete system that will be built based on the theory of Statistics, AI and Human-Computer Interaction. Contact: Faculty Block Room 184 or email AT faizanahmad@ciitlahore.edu.pk		Excellent English writing skills.		
Dr. Faizan Ahmad	Autism Rehabilitation System	It is now established that the assessment, as well as rehabilitation of human cognition, is possible through brain games. A huge number of population is suffering from autism around the globe. Few games have already been made in this	Unity Game Development	<ul style="list-style-type: none"> • Skilled in Java/C# and Databases. • Willing to learn Unity3D along with other new frameworks. • Willing to explore research literature. • Excellent English writing skills. • Have vast experience/sense of gaming (i.e. necessary to design game 	Research & Development	Yes

Supervisor		Title		Brief Description		
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		emphasis will be to analyze the existing research literature to understand where this domain currently stands, and offer a complete system that will be built based on the theory of psychology and Human-Computer Interaction. Contact: Faculty Block Room 184 or email AT faizanahmad@ciitlahore.edu.pk				
Dr. Faizan Ahmad	Intelligent Gestures-oriented Smart Devices Operability System	With the increase of features in smartphone devices its usability is getting complex. An efficient designing of widgets already addressed the issue to a certain extent, however, in the presence of mobile sensors it can be further improved. Using important features of smartphones through gestures recently got attention, however, seeking out	Android Application Development	<ul style="list-style-type: none"> • Skilled in Java/Android and Databases. • Willing to learn new frameworks. • Willing to explore research literature. • Excellent English writing skills. 	Research & Development	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		their recognition is still a challenge. Our emphasis will be to analyze the existing research literature to understand where this domain currently stands, and offer a complete system that will be built based on the theory of AI and Human-Computer Interaction.				
Dr. Faizan Ahmad	Elderly Care and Monitoring System	There already exist several elderly care systems, however, they offer assistance with certain limitations in terms of features as well as operability that eventually effects the adaptability of the target audience. Our emphasis will be to analyze the existing research literature to understand where this domain currently stands, and offer a complete system that will be built based on	Android Application Development	<ul style="list-style-type: none"> • Skilled in Java/Android and Databases. • Willing to learn new frameworks. • Willing to explore research literature. • Excellent English writing skills. 	Research & Development	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		Faculty Block Room 184 or email AT faizanahmad@ciitlahore.edu.pk				
Sara Muneeb	Online Web Portal to submit, review and composition of CJIF (COMSATS Journal of Islamic Finance)	Online portal will be mainly capable of • Taking submissions of article submitted by authors according to a specific format. • Sending Article for blind peer review to reviews • Sending article to proof readers for proof reading • Getting response from reviews and proofreader • Serving all the roles in the submission process i.e. author, reviews, proof reader and editor. • Auto generating emails and timelines for each role • Auto generating of final version of journal	Web development , Database, HCI	Good programming and database concepts	Development (Application)	Yes
Sara Muneeb	PROLINK	Purpose of this app is to create links between properties agents inter or intra offices.	Mobile App development , Database	Database and Android development programming concepts, CGPA Above 3.3	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		they are working on for selling, buying or rent out. Boss of the office will create an admin account for one office and rest of dealer in that office will use that application as users created by admin. Property uploaded by single user can be seen by other dealers of that office as well. For example if a dealer want to sell a house and he uploads data of that house. Another dealer who has a client who wants to buy a house, he will search if a house is available via app and will contact the dealer who is selling house. This will save the effort the spent on making phone calls to all and searching in long queued messages in WhatsApp groups etc.				
Sara Muneeb	BANADO	This is an online web portal which will deal in	Web development , Database	Database and programming concepts	Development (Application)	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		brick makers, cement sellers, electric and sanitary merchandise rs. Property agents will be able to contact with each other directly by sending or receiving notifications of recent properties they want to sell, buy or rent out in any particular area. Individuals will be able to see who is selling material in low cost or giving less expensive and trusted services and from where they need to buy bricks, cement and other material during house building depending upon cost and extra services they provide.				
Miss Iqra Obaid	E bridge	System which mainly helps to improve communication between Teacher and Student.	Web based Application/ Android Application	Good programming and database concepts	Research	Yes
Miss Iqra Obaid	Lost and Found Management System	Web based Lost and Found management system.	Web based Application/ Android Application	Good programming and database concepts	Development (Application)	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		lost items.				
Miss Iqra Obaid	Time Table Management	The problem is to design and implement a web based application to create a semester course time table by assigning time slots and rooms to a given set of courses under given constraints like avoiding clashes of timeslots and rooms assigning proper rooms and appropriate slots and contact hours etc	Web based Application	Good programming and database concepts	Development (Application)	Yes
Miss Iqra Obaid	Bandwidth aggregated Web browser	The explosive increase in data demand coupled with the rapid deployment of various wireless access technologies have led to the increase of number of multi-homed or multi-interface enabled devices. Simultaneously leveraging these interfaces by potentially aggregating their bandwidths can lead to higher throughput,	Desktop Application	Good programming and database concepts	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		Recently the software designed for the bandwidth aggregation, work both on the server as well as client side i.e. they don't work unless the software is installed on the server side. Our aim is to design a bandwidth aggregated web browser which is independent of server side segmentation i.e. no work is required to be completed on server side.				
Dr. Muhammad Tayyab Chaudhry	Home/Office Electricity Monitoring	Distributed Systems, Android Programming	Android programming, Hardware knowledge of mobile phone and electricity boards, Arduino/Raspberry pi programming	Research & Development	Yes	
Dr. Muhammad Tayyab Chaudhry	Soil moisture monitoring System	Distributed Systems, Android Programming	Android programming, ability to integrate arduino/raspberry-pi board with sensors and Android phone	Research & Development	Yes	
Dr. Muhammad Tayyab Chaudhry	Car Automation and Control	Distributed Systems, Android programming, computer	Android programming, Hardware knowledge of mobile	Research & Development	Yes	

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
Muhammad Bilal Arshad	Homeopathy Expert System	Homeopathy is very popular medicine as it has very few or side effects. The medicine is suggested or advised based on identification of certain symptoms. Idea is to build an expert system for homeopathy doctors that could suggest medicine after careful analysis of the symptoms entered by the physician. After suggestion system would learn and keep the record of patients for future consultation.	Web / Mobile Application	Development (Application)	Yes
Muhammad Bilal Arshad	Virtual Class Room	Virtual reality is and will be at its boom in coming years. The proposal is to build a proof of concept that could virtualize a class room environment . Utilizing capabilities of Kinect and HTC VIVE or any other VR platform. Student from	Web / Mobile Application	Development (Application)	Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		room environment and view teacher delivering a lecture in front of them.			
Muhammad Bilal Arshad	Smart Bus Management	Aim of this web and mobile platform is to provide companies to register and utilize the system to manage their bus routes and registrations. System will suggest the fastest yet optimal routes to allow maximum passengers(employees/ students in case universities) to be accommodated in the buses. it would suggest number of buses required on each route designed by the administrator . The system will also updated and share the current location and status of the bus with relative stake holders (company/parents/relatives)	Web / Mobile Application	Development (Application)	Yes
Muhammad Bilal Arshad	Health and Diet Portal	Basic idea of the web and	Web / Mobile	Development	Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		healthy life style. It will include specialized features to generate a healthy activity plan for the week and based on input from nutritionists system will be self capable to generate a healthy customized diet chart for each person registered with the website.			
Ms. Sabeen Amjad	Online Bakery Shop	This online Bakery shop will allow users to check and purchase various bakery products available online. The project will consist of list of bakery products displayed in various categories and the user will browse through the items and will do online shopping. He will do online payment. Thus, the online Bakery shopping project will bring an entire bakery shop online, making it easy for	Web Application/ android Application Development	Good programming and database concepts	Development (Application) Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		curing his disease by giving the list of fruits and herbs that the user should consume in order to get rid of his disease. This system will help the user to reduce his searching time to a great extent by allowing the user to enter his health problem and search accordingly. This system will also allow the user to online place the order and make online payment for the same. Thus this system will help to cure the user's disease to a great extent.	Application Development	database concepts	
Ms. Shaina Ashraf	E Conference Management System	The aim of this project is to provide an online submission management system, that streamlines and eases out the collection, tracking and management of electronic submissions. Information can be received, authenticate	Web Application	Good programming and database concepts	Development (Application) Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
Ms. Shaina Ashraf	Help-Online	The aim of HelpOnline is to provide the daily basis services to users at home. Using application users can request for different services. He can view the charges he ll have to pay for the services and pay online.he can also give feedback on the services he receives from a particular service provider. our customer can also request for the services of a particular service provider based on his/her trust built from previous experience .	Web Application/ android Application Development	Good programming and database concepts	Development (Application)	Yes
Najam-us-Sahar	Mobile Discount Directory	We propose a Mobile Discount Directory with the use of Global Positioning System to find discount, coupons and promotion information, which surround user's current location. Using this application,	Android application development	Programming, Database	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		purchase or meals. It brings convenient to users and helps them consume intelligently.				
Dr. M. Tayyab Chaudhry & Dr. M. Hassan Jamal	RAID As a Service of Cloud Computing		* Software development * Cloud Computing	* Strong coding skills are required in JAVA, Web Technologies and Database Systems *Students with CGPA higher than 2.8 will be preferred.	Development (Application)	Yes
Nadeem Ghafoor Chaudhry	On Road Salaat Planner	This is an Android based application to facilitate people traveling by road over long distances who are careful about their Salaat (prayers). The idea can be explained with an example. Suppose you are going to travel to Islamabad from Lahore via GT Road. You want to plan ahead your stops based upon Salaat time. For this you need to know where will be the closest mosque on your route	Android Application Development	Java Programing	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
			needs lot of thought and integration. You have to consider the fact that Salaat times change throughout the year, it needs to integrate with Google-maps to find out which route the user wants to take etc. It is not that critical on GT Road. But imagine a Muslim family in U.S.A traveling from New York to Florida who is very careful about their Salaat, they will greatly appreciate this application.			
Dr. M. Tayyab Chaudhry	Customer Intention Prediction through Social Media		* Software development . * Natural Language Programming (NLP)	* Coding skill in Java and database * NLP basics	Development (Application)	Yes
Dr. M. Tayyab Chaudhry	Personality Identification through Social Media		* Software development . * Natural Language Programming (NLP) * Psychology	* Coding skill in Java and database * NLP basics	Development (Application)	Yes
Ms. Sabeen Amjad	Event Hall Management System (EHMS)	EHMS is an events management automation system for a Pakistani banquet hall that helps the banquet hall in the automation	Web Application/ android Application Development	Good programming and database concepts	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		managers to run their operations smoothly and also facilitate customers by providing them the required information about booking schedules at their homes. There are multiple systems available but none of them gives the client a full package covering their business requirements.				
Ms. Sabeen Amjad	Tour Hunting	Tour hunting is a website that is very helpful in the selection of the most appropriate tour for the entertainment of the people. It registers different tourism companies which can add their tours details on the website. The visitors of the website can compare different tour packages added by different companies and select a tour. The selection is made on the basis of predefined	Web Application/ android Application Development	Good programming and database concepts	Development (Application)	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
Dr. M. Tayyab Chaudhry	Software Defined Networking		* Software development . * Networking	* Coding skill in Java and database * Network concepts of TCP/IP stack and Network security	Development (Application)	Yes
Mr. Asif Shahzad	Business Management Information System - BMIS V3	BMIS is general purpose business management application. It has Sales, Purchases and Accounts modules developed using Spring MVC and AngularJS. BMIS V3 objective is to add new and improve existing features. Working on BMIS requires exceptional knowledge of Java, OOP, DB, Web MVC and motivation/skill to learn new technologies fast. 2 group members must be good programmers.	Web Application Development	Java, RESTful Services, AngularJS, Logic Building	Development (Application)	No
Dr. Muhammad Tayyab Chaudhry	Duplicate Profile Detection		Social Networks	Basic programming skills, database, web programming, Machine learning	Research & Development	Yes
Dr. Munwar Ali	Selection of cloud based	The project will be	Cloud Computing	Java/C# programming	Research & Development	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		based on his/her security requirements.				
Dr. Munwar Ali	Organizational based data categorization in Cloud	The project will use DM to categorize data based on the organization in the cloud. This project will be considered a new sub-service of storage service. The cloud will receive the data and will process the data (using DM as the main engine) based on the predefined attributes and will allocate a specific label to the data. Finally, that data will be stored on the proper inner-cloud.	Data Mining, Cloud computing	Knowledge of data mining and Java programming	Research & Development	Yes
Dr. Muhammad Tayyab Chaudhry	Big Data based Prediction Service		BigData, Cloud Computing	Configuration Knowledge for Hadoop/Spark, General Programming, Web Programming, Android Programming, Artificial Intelligence	Development (Application)	Yes
Dr. Muhammad Tayyab Chaudhry	Water Pollutant Monitoring through Remote Sensing		Distributed Systems, Android Programming	Android programming, ability to integrate arduino/raspberry-pi board with sensors and	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
Chaudhry	Monitor/Trainer			extraction and analysis, general programming skills		
Dr. M. Tayyab Chaudhry	Accent Trainer		Software development , Cloud Computing, Android Development	Android/Windows mobile programming, Access to microphone and feature extraction from audio multimedia are must. Database System implementation for audio files and comparison.	Development (Application)	Yes
Dr. M. Tayyab Chaudhry	Tracking as a Service		Distributed Systems, Cloud Computing	Java/C# programming Android/Windows mobile programming and access to WiFi and location service Web Service programming Internet/Web /Network programming Database knowledge	Development (Application)	Yes
Dr. M. Tayyab Chaudhry	Providing video surveillance using mobile phone		Mobile computing, Distributed Systems	Android/Windows mobile programming Access to Camera, Bluetooth, WiFi, Mobile data and location service is a must. Mobile phone capable database programming such as for MySQL will be an added advantage.	Development (Application)	Yes
Dr. Adnan	Smart	Internet	Software	software	Research &	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>user's surfing over the web. It includes the control of what can be seen viewed, accessed or published over the web. Internet censorship is applied over the web traffic due to some religious, business or moral reasons. Today internet surfing is becoming an issue which requires great attention of ISPs in almost every part of the world and they are trying to solve these issues by different ways. Some websites are not required in the community and the presence of such websites/blogs etc. is harmful for the users due to some cultural and/or political reasons. This final year project considers the very problem and proposes a smart internet</p>	skills

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		further details please visit Dr. Adnan Ahmad in Faculty Block Room 37				
Dr. Adnan Ahmad	Service Oriented Architecture Implementation	Over the past few decades, software design architectures have become increasingly complex because of the increasingly complex IT needs of various systems for organizations. Until recently, most of the software design architectures were monolithic. Monolithic architectures of increasingly complex software design usually impose strong restrictions. These restrictions cause many issues; for instance, difficult integration with other software tools, less interoperability and less reusability of various software components. By providing "loose	Software Engineering	software engineering, algorithms, distributed systems, good programming and analytical skills	Research & Development	Yes

Supervisor		Title		Brief Description		
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		e", service-oriented architecture (SOA) is a promising architecture to solve these problems (Endrei et al., 2004). Today, most of the major software vendors such as Microsoft, IBM, Google, are using SOA. In this project, students are expected to develop a system using SOA. The software design, implementation and integration give them a head start to join the software industry. For further details please visit Dr. Adnan Ahmad in Faculty Block Room 37				
Dr. Adnan Ahmad	Sandboxing	Sandboxing refers to the security mechanism which is used to separate various running programs in the same system. It is normally used to execute untrusted code, so that	Software Engineering	software engineering, algorithms, operating systems, good programming and analytical skills	Research & Development	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>isolated environment only. Let us consider the classic dilemma, where a person has received a file and eager to see what is inside, but at the same time afraid of infecting his system through a virus. One possible solution is to open the file in a controlled environment (sandbox), so even if it is infected, the effect can be localized. Without a proper sandbox mechanism a system always faces threats of viruses and Trojans every time a code executes. This final year project deals with the development of a sandboxing environment and helps students to deeply understand programming fundamentals, operating systems and access rights. For further details</p>	

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
Dr. Adnan Ahmad	Software Quality Assurance	This final year project explores the dimensions of software testing, and the development of such automated tool. The students will be dealing with the generation and execution of test data to evaluate the correctness of a program. There are some quite famous techniques present in the literature and the students will be developing some of them. Mainly the project explores black box and white box testing and highlights the errors that can go unnoticed by the programmers. Some common errors/warnings include: "memory leaks", "dangling references", "infinite loops", "fall through cases in switches", "out of bound", "unreachable code",	Software Engineering	software engineering, algorithms, good programming and analytical skills	Research & Development Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		functions".F or further details please visit Dr. Adnan Ahmad in Faculty Block Room 37.				
Dr. Adnan Ahmad	Secure collaboration for e-learning system	E-learning is the use of information and communication technology (ICT) in education. The process spans over various component including collaboration between teachers and students, which turns out to be a critical success factor. In online courses, it is even more desirable that teachers may collaborate with students effectively to enhance the latter's capabilities. However, it is also quite important to secure that collaboration so that no unauthorized action may take place. Secure collaboration is important in ensuring that every resource or information	Software Engineering	software engineering, algorithms, good programming and analytical skills	Research & Development	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		project focuses on the development of a novel collaborative module for e-learning systems and provides the opportunity to the students to improve systems concepts, programming and critical thinking that will help them in industry. For further details please visit Dr. Adnan Ahmad in Faculty Block Room 37.				
Dr. Adnan Ahmad	COAT-Collaborative Outgoing Anti-spamming Technique	Spam and anti-spam techniques are part of email since its birth. Spam is electronic garbage with no anticipating recipient and almost always deleted. In 2010, around 89% of all emails were spam, resulting in an estimated 260 billion spam emails sent every single day. Most of the current anti-spamming systems focus on incoming spam but these	Artificial Intelligence, Machine Learning	software engineering, algorithms, good programming and analytical skills	Research & Development	Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		storage and processing resources. This final year project proposes a collaborative outgoing anti-spam technique to reduce the spread of spam on the internet. The technique targets outgoing emails and its use would free the internet from 260 billion spam a day. For further details please visit Dr. Adnan Ahmad in Faculty Block Room 37.			
Dr. Muhammad Salman Khan	A visualization tool for analyzing trends in the field of computer science	This is a HEC funded project. Basically the visualization tool developed in this project will help analysts to evaluate the performance of individuals, organizations, nations, and groups working in the field of computer science. This in turn can be used to know the impact of decisions and policies made for allocating resources and funds,	Communication Networks	Good programming skills in Java, computer graphics	Development (Application) Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		Education Commission (HEC) of Pakistan can take a lot of benefits from the product developed through this project. The developed product through this project will help the students, scholars, and teachers to find collaborators, experts, and supervisors in their field of study either locally or at global level.				
Dr. Zulfiqar Habib	Simulator for Unmanned Aerial Vehicle (UAV)	Cool test of UAV through simulator is very important before you fly your real UAV. A perfect simulator can save a lot of money. Simulator can be developed in any symbolic simulator like MatLab. Finally, developed simulator can also be converted into interesting games.	Intelligent Machines and Robotics	Development (Application)	No	
Dr. Rao Muhammad Adeel Nawab	Linguistically Motivated modified sentences	In paraphrased plagiarism, the most common	Natural Language Processing	Python, Java or Perl programming skill	Research & Development	Yes

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		explore linguistically motivated modifications of sentences. So, making sure that the modified sentences (or n-grams) come from sensible sentences, to build on the work which I did in my PhD (see Chapter 5 of my PhD thesis for more details).				
Dr. Rao Muhammad Adeel Nawab	Extracting parallel samples from comparable corpora.	Wikipedia is a multilingual resource. It can be used in extracting parallel fragments from its comparable articles in different language pairs. The outcome will be a valuable resource for machine translation.	Natural Language Processing	Python, Java or Perl programming skill	Research & Development	Yes
Dr. Rao Muhammad Adeel Nawab	Cross-language re-use in source code	Whereas work on source code re-use detection started nearly forty years ago (Ottenstein, 1976), Internet has made available huge amounts of code. As for texts, "much plagiarism	Natural Language Processing	Python, Java or Perl programming skill	Research & Development	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>2004). Finding cases of re-use across programming languages seems to be an interesting problem. When dealing with this problem, it is possible to take advantage of the certain similarity between the reserved words across programming languages. Flores, Barrón-Cedeño, Rosso, and Moreno (2011, 2012) have made some preliminary efforts on detecting re-use among codes in C++, Java, and Python, using the cross-language character n-grams model. Authors suggested that cross-language alignment-based analysis model may be valuable as well for two reasons: (i) building a statistical dictionary for reserved words is feasible and (ii) even the</p>	

Supervisor	Title	Brief Description
Sort	Sort	Sort
	for instance, how short a code in Python should be respect to its source in Java. Flores, E., Barr'ón- Cedeño, A., Rosso, P., and Moreno, L. (2011). Towards the Detection of Cross- Language Source Code Reuse. International Conference on Applications of Natural Language to Information Systems, LNCS (6716), 250– 253. Springer- Verlag. Flores, E., Barr'ón- Cedeño, A., Rosso, P., and Moreno, L. (2012). DeSoCoRe: Detecting Source Code Re- Use across Programmin g Languages. In Proceedings of Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Montreal,	

Supervisor	Title	Brief Description
Sort	Sort	Sort
Nawab	<p>looking for topical similarity, but for co-derivation of texts. Therefore, text re-use detection models cannot be considered when designing a "traditional" topic-based search engine. However, models for text re-use detection are still worth considering in modern search engines. For instance, in a monolingual setting, models for text re-use detection could be used to improve the search diversity: avoiding to present near-duplicate documents on top of the returned ranking. In a cross-language setting, these models could be used to assist the user for cross language searches. Imagine the following scenario: (i) a person</p>	g skill

Supervisor		Title		Brief Description		
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		<p>one (e.g. Spanish is her native language and English the language of the query); (ii) the search engine returns a relevant document written in English; on the basis of algorithms for cross-language text re-use detection, a translation in Spanish is found. (iii) instead of offering the possibility for translating the relevant document “on the fly”, the search engine offers the available translation, with a high likelihood of representing a better translation.</p>				
Dr. Rao Muhammad Adeel Nawab	Identification of Proper Citations	Probably one of the most interesting topics for future research on plagiarism detection is the automatic analysis of citations and references, a problem that, although mentioned already by Maurer et al.	Natural Language Processing	Python, Java or Perl programming skill	Research & Development	Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		<p>used, i.e., including its corresponding citation or reference, it does not compose a case of plagiarism, and it would not be considered as suspicion. The development of techniques for discriminating between plagiarism and properly cited re-use requires, firstly, obtaining (or generating) diverse cases of quotations and, more general, proper and wrong citations. Afterwards, models that recognise proper citation patterns could be designed.</p>			
Dr. Zulfikar Habib	Restaurant Automation	Restaurant automation is the next evolutionary step for restaurants that are looking to increase customer awareness and loyalty, and offer their valued guests a modern and interactive way to order food as well	Mobile App (Android, iPhone, etc.)	Development (Application)	Not

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>sleek and easy-to-use Android tablets and mobile application that you can use to replace your outdated paper menus of yesteryear and provide guests with attractive electronic menu board instead.</p> <p>Restaurant Automation is designed to support all kinds of android based devices. Android tablets and mobile are one of the coolest ways to display ideas.</p> <p>Android based mobile applications are sleek, stylish and very handy, convenient and easy to use. They are interactive touch screen display which makes viewing a pleasure. We are going to facilitate the customers that they can easily order the desired food. There will be complete digital menu of restaurant</p>	

Supervisor		Title		Brief Description	
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		delivery time of order will be notified and your order details will be sent to the counter.			
Dr. Zulfiqar Habib	Efficient biometric system for CIIT	Currently used biometric system is not sufficiently efficient & user friendly. Further it is not 100% accurate. We are developing a professional biometric system with better efficiency and accuracy.	Vision, Image & Graphics (VIG)	Digital Image Processing or Computer Vision	Development (Application) No
Dr. Zulfiqar Habib	Facts finding and monitoring of persons on social networks	Social networks on net are very useful and becoming more & more popular among young generation. However these are now the main cause of Cibber crimes. We are going to develop an application which can guess actual info. of newly added unknown person based on keywords used during messaging. All conversation will silently transfer to	Web Development		Development (Application) No

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		of any threat.			
Dr. Zulfiqar Habib	Final Year Projects (FYP) Management System	Currently FYPs are being managed through Dropbox & Google site with some limitations. We are shifting the whole process of FYP management on our local server with more features, flexibility and convenience . Deployment of this project is also the part of our job.	Databases and Operational Intelligence	Development (Application)	No
Rab Nawaz Jadoon & Jawad Shafi	Remote Administration using Mobile	The mobile devices are becoming more and more popular and powerful and are providing a new notion of communication that we could once only imagine. A truly wireless mobile is new to the vast majority of computer users. We know wireless mobile phones, but the idea of being able to connect to the Internet in a similar fashion is	Mobile App (Android, iPhone, etc.)	Development (Application)	No

Supervisor	Title	Brief Description
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	majority of us are still accustomed to plugging a modem into a phone back to connect to the Internet remotely. The enhancements in the technologies help us to have the Internet accessing facilities even on the mobiles. Our project is related to accessing a remote PC using a mobile. The system gives the user the user the ability to access remote computer via mobile phone from everywhere in the world. The user is connected to the Internet server by a service provider according to the IP address specified by him. If a connection is established the user can access the remote system. The user can read, write and can execute specific files on the remote PC.	

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>famous spots, to know more about the place he hires a guide. The hired guide then narrates history of the place. The proposed system doesn't require a physical guide. The Mobile application installed on the mobile of tourist can act as a guide. The application "Mobile Travel Guide" solves all these problems. It offers below services, 1. Retrieves the user's current geological coordinates. 2. Converts the Latitude/longitude to street address. 3. Does video search for that place and displays those to user. 4. User watches the video of his choice. Mobile Application has, <input type="checkbox"/> Location finder <input type="checkbox"/> Video Search <input type="checkbox"/> Video player <input type="checkbox"/> Provide other</p>	

Supervisor		Title		Brief Description		
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	graphics for the Islamic Economics Game	characters, scenes and other graphics related items for the above game. This effort does not need “programming” as such but requires a lot imagination and extensive use of many graphics related tools.				
Nadeem Ghafoor Chaudhry	Web Based Game to Simulate Islamic Economic System	It is the same idea as described above (Andorid or iPhone Based Game to Simulation of Islamic Economic System), except that instead of working on Android based platform it will be web based and can be even a Facebook application with same look and feel as the mobile based one.	Game Development	Programmin g, DB, OS	Developmen t (Application)	Yes
Nadeem Ghafoor Chaudhry	Android or iPhone Based Game to Simulate Islamic Economic System	Almost every semester I hold a discussion on economic system of Islam and almost every time people ask me, where is it implemented	Game Development	Java programmin g, DB, OS	Developmen t (Application)	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>what about if we can implement it virtually. What I mean is how about if we develop a large multi-player computer game based on Islamic Economic principles. This game will have multiple benefits the immediate two are: 1) It will introduce people, especially our young people, to economic principles of Islam. Many of our youngsters play useless games like Simcity, Civilization etc. My aim is to engage young people in exploring concepts of Islamic economic system. These people most likely will not read economics books but they might play computer game. This way we can get them to discuss what is actually happening in our society as compared to what should</p>	

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>if we all play according to Islamic rules we will all (except the current ruling elite) be better off. This might bring about the much needed change without the bloodshed that political pundits are talking about. 2) It can generate data (albeit simulated/game data) about how an economic system based on principals of Islam will work, what will be the distribution of wealth, how will businesses operate in such a system etc. This will depend on how the game is designed and played. A basic version of the game with two modules was developed last semester by students of CIIT and one group from NU-FAST is working on a web-based version. But as anyone who has</p>	

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		huge undertaking. It is a very large project and as such will require many people and a few years to fully develop.				
Dr. Zulfiqar Habib	Designing fair route for non-holonomic mobile robots	The path of any non-holonomic (car like) mobile robot travelling from one point to another needs to be smooth (fair) so as to avoid sharp jerks that can otherwise create premature wear and tear of the robot. Since most of such robots are battery operated therefore not only less oscillations in their path is required but also we need to keep these shortest (time & energy efficient). Any path avoiding obstacles (if any) might be an additional requirement.	Intelligent Machines and Robotics	Numerical Methods	Research & Development	No
Dr. Zulfiqar Habib	Disaster Management System (DMS) for Airports	In collaboration with Pakistan Civil Aviation Authority	VIG-Robotics, http://vig.cuiilahore.edu.pk	Digital Image Processing or Computer Vision	Research & Development	No

Supervisor	Title	Brief Description
Sort	Sort	Sort
	Navigation System at Organization al level. Admin can perform following functionalitie s.Add map of any organization into Web Application Provide some details, such as, basic longitude and latitude, paths (such as roads, walking tracks etc), details of different locations.Wh ereas End user can Perform following functionalitie s: 1.) Search locations, 2.)Get directions from one place to another, 3.) Navigate through street view, 4.) Add favorite places, 5.) Create own map which will be synced with Android Application. 6.) Android Application will provide map and navigation system (using GPS) of the organization where user can search places, get directions (voice	

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		Android and Web Application.				
Mehwish Fatima	Comparison of probabilistic routing protocol with proactive routing protocols in wireless adhoc networks	Wireless adhoc networks with mobile devices are highly dynamic and complex in nature. For such networks routing strategies are different from traditional networks as these networks are time variant. For such networks, we can find an efficient routing protocol under time-variant property of network.	Communication Networks	<ul style="list-style-type: none"> • Computer Networks • Strong programming concepts • Excellent command of C/C++ • Eager to learn new material by self-study 	Research & Development	Yes
Mehwish Fatima	Detection of Malicious Applications on OSN	Online social networks (OSN) have grown a largest platform for interaction and entertainment such as games. A lot of applications are developed for the OSN; however, the real intentions of the application may vary from developer to developer. Some application may have malicious	Artificial Intelligence, Machine Learning	<ul style="list-style-type: none"> • Strong programming concepts • Excellent command of Java / Python • Good concepts of statistics and linear algebra (Optional) • Eager to learn new material by self-study 	Research & Development	No

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		algorithms can be used to detect malicious applications offered to OSN users.			
Dr. Zulfiqar Habib	Smart Learning Advanced Tools for Education (SLATE)	Leading to a mega project SLATE, we are developing a state-of-the-art and very interesting learning tools for the children of nation. Main objective is to bridge the huge gap among our different education standards. Our graphical and animated learning tools will not only accommodate all levels of students in a class but also very helpful for teachers and parents. We envisage the use of intuitive animations for teaching as per the intellectual requirements of individual students. The thematic composition of the learning environment is based on concepts adapted	Vision, Image & Graphics (VIG)	Development (Application)	Yes

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		friendly, bilingual (English and Urdu), available both for windows and android, handy (tablet & mobile versions), and helpful in clearing concepts using personalized examples from our own culture. It has flexible adaptation of teaching methods in the light of child performance catering the need of each individual student through evaluation after every lesson. Teaching, learning, and evaluation modules of our project are being surveyed during the development phases for the feedback of children, teachers, and parents.				
Nadeem Ghafoor Chaudhry	Offshore Radiological	Like many other professionals in U.S.A radiologists are very expensive. On average a mid ranged	Software Engineering	Programming, DB, OS	Development (Application)	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	depressed U.S economy everyone is trying to cut costs, so are hospitals. Insurance companies don't pay a penny more than what is the market rate for any medical procedure. As a result of all these pressures there a great demand for offshore radiological help. Like off shore call centers, hospitals in U.S are sending their radiological work to areas where they can find English speaking, competent radiologists at cheaper rates. India is one such location and Indian doctors are making good use of their IT infrastructur e to promote their services. Dr. TanveerZub airi of Punjab Radiology is trying to develop such a center in Pakistan. He needs a complete solution where by radiological	

Supervisor		Title		Brief Description		
Sort		Sort		Sort		
		interpreted and reported by competent radiologists here in Lahore and sent back to USA. All of this has to be done in the constraints of time, US medical related laws (which are quite extensive), client satisfaction etc.				
Nadeem Ghafoor Chaudhry	Speech Therapy for Speech Challenged Children of Pakistan	Children who are born with serious hearing disorders don't develop speech abilities, even though their speech related physiological aspects are healthy. As a result they face a big challenge in the long run as far as their communication skills are concerned. Many opportunities available for ordinary members of society become out of reach for them. When such children are given hearing aids they face a very interesting	Software Engineering	Programming	Research & Development	Yes

Supervisor	Title	Brief Description
Sort	Sort	Sort
	<p>they don't know how to speak. They need specialized training to learn to speak. It is a very frustrating process; each word has be repeated thousands of time. This training is imparted by trained speech therapists. The job of a speech therapist is very challenging and as such there is a high rate of turnover in this field. Moreover in Pakistan the number of properly trained speech therapists is far less than what is needed. As a result a large number of children are unable to receive the professional training that they need to be able to speak properly. With the decline in cost of computing hardware it is now possible for the less fortunate ones to afford basic</p>	

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		related software is proprietary and quite expensive, especially for those living in underdeveloped countries. Moreover language is also a problem. Majority of the proprietary speech therapy software is meant to teach English, which is not our mother tongue. This project is intended to fill this gap.				
Dr. Zulfiqar Habib	Morphological Analysis of Human Sperms	This project will automate the pathological tests of human sperms by using video clips captured by digital microscope through morphological analysis.	Vision, Image & Graphics (VIG)	Digital Image Processing or Computer Vision	Research & Development	No
Dr. Zulfiqar Habib	3D Obstacle Avoiding Smooth Path Planning for a UAV	In this project, we will develop a 3D smooth and obstacle avoiding path planning algorithm for an unmanned aerial vehicle (UAV) operating in natural	Intelligent Machines and Robotics	Computer Graphics, Embedded systems, Micro processing interfacing	Research & Development	No

Supervisor		Title			Brief Description	
Sort		Sort			Sort	
		simulator or on small size helicopter.				
Dr. Zulfiqar Habib	Swarm Management System (SMS)	Auto crowd management system by counting moving people using surveillance cameras is very useful, convenient and effective. Developed system will very intelligently manage the crowd of people on places having multiple entry/exit points and will keep the balance of people at every point. This project can further be extended for the security and many more applications.	Vision, Image & Graphics (VIG)	Digital Image Processing or Computer Vision	Development (Application)	No
Dr. Zulfiqar Habib	Mammography Visual Enhancement in Cancer Diagnosis	This project is on visual enhancement of MRI (Magnetic Resonance Imaging) for the convenience and accurate understanding of doctor. Enhanced image is also used to automate the diagnose process and grading of disease level.	Vision, Image & Graphics (VIG)	Digital Image Processing or Computer Vision	Development (Application)	No

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		very serious and rapidly spreading breast cancer not only in our society but all over the world.			
Jawad Shafi	Remote Control NFC Enabled Smartphone	NFC (Near Field Communication) or Mobile RFID is integrated in most of the upcoming Smartphone, such as Samsung Google Nexus S. NFC feature works from a distance of around 20cm with passive RFID/NFC Tags having capacity of storing small amount of information. This information can be read by the NFC equipped Smartphone and further programmed to react (according to information available on RFID/NFC tag). Focus of this project will be on: Automaticall y launching Android Application by touching the NFC Tag, enabling Bluetooth and start	Software Engineering	Java, Android SDK, Eclipse, C# or Java (for desktop Application)	Development (Application) Yes

Supervisor		Title		Brief Description	
Sort		Sort		Sort	
		Android Smartphone from the Desktop Computer via Bluetooth Controlling Android Smartphone from the Desktop Computer At least two applications would be required to develop, one for Android phone and the other for the desktop computer with whom it will communicate.			
Dr. Zulfiqar Habib	Enhancement and Grading of Retinal Images (EGRI)	Diabetic retinopathy is a condition where the retina is damaged due to fluid leaking from the blood vessels into the retina and patient may lead to blindness if untreated. As the part of a mega project at local hospital, students need to enhance and grade retinal images for diabetes retinopathy.	Vision, Image & Graphics (VIG)	DIP or CV	Development (Application) No

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Supervisor	Title	Brief Description
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