

IMPORTANT

CMP4997 - Capstone Project Topics and Abstracts

You can find the link for CMP4997-Capstone Projects List below.

Each student will make a preference list consisting of 7 projects.
The list will be sorted from the most preferred to the least one.

**The projects are listed under two categories (CATEGORY I and CATEGORY II).
At max. 2 of your project preferences can be from Category II (in other words, at min. 5
of your preferences must be from Category I). The students who do not take this
warning into account will face with sanctions.**

Send your preference list to okan.sakar@bahcesehir.edu.tr until October 3, 2012.

Write only the project id and title for each project.

Do not write your list into a word file, write your list to the body section of your email.

Faculty members will assign one of the projects from the preference list and the
assignments will be announced here and/or via email next week.

CATEGORY I

PID:	1
Title:	Public Safety Management System via Smart Phone Applications
Description:	Turkey has long been concerned about the huge impacts of natural disasters, such as floods, landslides, and storms, and unnatural disasters, such as terrorist attacks, biological or chemical accidents/attacks. Although some material losses seem to be unavoidable, the impact of these disasters can be minimized through community preparedness, timely warnings, and effective actions. In this project, an online data-collection, processing and communication system for public safety applications will be designed and developed through a Smart Phone Application Platform, such as Android or iPhone.
PID:	2
Title:	Web-based Secure Data Storage
Description:	A web application will be developed where a user can store his/her files in a remote web server in encrypted form and retrieved them online in decrypted form as necessary. Each user will have a user password from which a cryptographic key will be generated to be used for encryption.
PID:	3
Title:	Developing a Flash-based/HTML5 based Animation Tool for Archeological Objects
Description:	In this project, an animation tool will be developed for museum artifacts. A group of archeological objects will be chosen. Historical, artistic, cultural value and stories of these objects will be studied and used to to tell the story of the object

	from past to present. The story will be presented with animations and HTML5 over internet in an interactive way with users.
PID:	4
Title:	Design and software implementation of daily dashboard for Android based platforms
Description:	This project will implement a software project on an Android based device. The project involves a dashboard which displays information such as news, weather, and traffic.
PID:	5
Title:	Neural network model for earthquake prediction
Description:	Earthquakes are the most significant natural disasters our country faces. Neural networks based methods are used for prediction and estimation purposes. In this project, our goal is to implement a neural network model to predict the potential earthquake places and their time.
PID:	6
Title:	Evaluation of Machine Learning Algorithms I
Description:	Studies in machine learning produced many different algorithms for building models for different prediction tasks. In this project the student will implement a selection of machine learning algorithms and evaluate their performance on different data sets. The project requires good programming skills and mathematical (calculus, probability, linear algebra) knowledge.
PID:	7
Title:	Evaluation of Machine Learning Algorithms II
Description:	Studies in machine learning produced many different algorithms for building models for different prediction tasks. In this project the student will implement a selection of machine learning algorithms and evaluate their performance on different data sets. The project requires good programming skills and mathematical (calculus, probability, linear algebra) knowledge.
PID:	8
Title:	Stereo pair generation using Kinect
Description:	The aim of this project is to compute stereo pair for the Kinect depth camera so that its output can be viewed in 3D monitors. Kinect can generate one RGB image and its depth map. Skills needed/to be acquired : computer vision, image inpainting.
PID:	9
Title:	Taxi finder
Description:	A mobile utility to find and call the nearest Taxi stop around. Requirements: Mobile Dev.
PID:	10
Title:	Prediction of fullness rate of computer engineering departments in Turkey
Description:	In parallel to the rapid increase of the number of state and foundation universities in Turkey, determining the quato of the departments gaining importance. In this project, the student will develop a prediction system to estimate the fullness rate of computer engineering departments at ÖSYS

	exam in Turkey. Good programming skills and mathematical knowledge are required.
PID:	11
Title:	Investment Advisor
Description:	The foreign exchange market (Forex or currency market) is a worldwide financial market for the trading of currencies. The critical issue of currency is to select the right currency of trade at the right time, based on accurate forecast of future exchange rates. In the literature, there are several forecasting algorithms making currency market forecasts and predictions. In this project, the performance of existing currency market forecasting tools will be performed based on historical data and investment decisions will be made via predictions of future exchange rates.
PID:	12
Title:	Software for Lossless Data Compression
Description:	A lossless data compression software application will be developed. The application will perform data compression and decompression using a combination of the LZ77 algorithm and Huffman coding as used in WinZip.
PID:	13
Title:	(Museum Search Engine I) Building a Taxonomy and Developing a XML-based Taxonomy Engine(Web Service) for Museum Objects
Description:	There are several museums all around the world. Some examples of these are in the topics of history, science, art, sculpture, book, cinema, etc.. Each artifact in a museum contains information about the history, life style of people, materials of the terms it has been created. To build intelligent applications, web services for museums in a digital world, we need a well organized taxonomy covering all kinds of museums and artifacts, including history, visitors statistics, cafe services, personel, etc.. any information related to museums and artifacts. We are going to study to build a comprehensive but effective taxonomy by using XML or related technologies. Later, we will build web services which use this taxonomy to access information in a fat and efficient way.
PID:	14
Title:	Social Network Analysis
Description:	Social networks (like Facebook or Twitter) have gained enormous popularity. Many people try to understand the dynamics of these networks: how they grow, how users interact, etc. In this project the student will analyze social networking data in order to understand these dynamics. Good programming and mathematical skills are required.
PID:	15
Title:	Design and software implementation of a game for Android based platforms
Description:	This project will implement a software project on an Android based device. A game will be created, designed and implemented. The game should have at least 10 levels.
PID:	16
Title:	All focus image generation from defocused images
Description:	The aim of this project is to generate all-focus image of a scene from its defocused image sequence.

	Skills needed/to be acquired : computer vision
PID:	17
Title:	Democratic Cafe Jukebox
Description:	Through an Android based web front end, people will be able to vote for a song to be played in a cafe. Requirements: Mobile Development, Web services.
PID:	18
Title:	Collaborative Turkish Word Translations:
Description:	A web based “collaborative” utility to find Turkish words for foreign technical words. Requirements: Web development
PID:	19
Title:	Automatic Parameter Optimization Tool for kNN Classifier
Description:	Determining the parameters of the machine learning algorithms is an empirical step which takes time for the researchers in the field. In this project, a parameter optimization tool will be developed that determines the optimal parameters on the training set for <i>k</i> -nearest neighbor (kNN) classifier. This project requires good programming skills.
PID:	20
Title:	(Interactive Web Service) Developing an interactive web service for 3D objects
Description:	Internet applications, web services are developing very fast. Meantime, the variety of representation of data and information has been increasing rapidly. 3D information representation, 3D description of objects are becoming an important part of IT technologies. In this project the student will develop an internet application/some web services which will display 3D data of the objects or 3D simulations of the data in an interactive way with the user.
PID:	21
Title:	Software Implementation of Elliptic Curve Cryptography Utilizing Multicore Processors
Description:	Elliptic curve cryptography is a promising public key algorithm which is expected to replace the RSA algorithm in the near future. Multicore processors have become the mainstream processors for personal computers, yet many applications do not fully exploit the capabilities offered by them. In this project, we will implement an elliptic curve cryptosystem by utilizing possible performance advantages offered by the multiple cores on a processor.
PID:	22
Title:	Istanbul Traffic Management Center
Description:	Real-time traffic information along the roads is very useful for navigation systems or intelligent transportation systems. In this project, a traffic management system has been implemented via using GPS-enabled smart phones or GPS devices already available in some cars. This project is based on a client-server architecture, in which clients refer to smart phones or cars equipped with GPS receivers and the server is used to collect GPS data from the clients. Specifically, after obtaining location and speed information,

	clients will periodically upload their GPS data (such as latitude, longitude, speed, and time, etc.) to the central traffic management server. The server will keep a database and make traffic status estimations for each road segment based on collected data. In addition, this project utilizes MAP services provided by Google Maps to show the traffic status along the road segments. Overall, this project will include three components: i) development of traffic management server and client, ii) design of traffic congestion status database (including GPS data (location, time, etc.)), and iii) Google Map integration with the server database.
PID:	23
Title:	(Interactive Web NUI) Developing an interactive natural user interface application through World Wide Web
Description:	Natural user interface has become a popular research area with the recent developments such as Kinect, Asus Xtion, which allows users control the devices/software without using markers or remote controllers. However, this has not been carried to internet applications yet. In this project, the student will work in a reserch project, where he/she will develop user input control processing methods for internet applications.
PID:	24
Title:	Development of an Exam Placement Application
Description:	The application that will be developed in the context of this project is expected to place the students to the classes for an exam according to a chosen criteria (the grades, names, classes, departments, etc. of the students). The list of the students and details about the exam classes will be uploaded to the application and the app. will give the placement as an output. Any programming language (C#, Java or any other programming language) and any DBMS can be used to develop this project.
PID:	25
Title:	Analysis of Wikipedia
Description:	Wikipedia is one of the most successful projects on the web. The users collaborate to build articles on almost any topic. Users have the right to edit each others' writings. This seemingly chaotic behaviour nevertheless successfully leads to quality content (comparable to classic encyclopedias). In this project the student is required to analyze how articles are produced in the Wikipedia environment. The project requires good programming, mathematical, and analytical skills.
PID:	26
Title:	(Food Recognition) Food Recognition from Images
Description:	There is a set of food images. The aim is to recognize the type of the food and approximate calorie of the food from an image. Image processing methods will be learnt and studied widely. Matlab/C++ Knowledge is a plus. The student will be working in a research project.
PID:	27
Title:	Earthquake Management System via Smart TV Application
Description:	In Turkey, major earthquakes happen and cause many deaths, serious

	injuries, and damages. For example, in the Izmit earthquake on August 17th, 1999; thousands of people died, and large parts of a number of mid-sized towns and cities were destroyed. Our vulnerability to disasters keeps increasing, because our population is rapidly growing and more people have started to live in risky and crowded cities, such as in Istanbul and Izmit. In this project, an earthquake management system will be designed and developed through a Smart TV Application Platform to provide accurate and timely information and warnings about serious seismic events.
PID:	28
Title:	Smart Electric Vehicle Charging System
Description:	Smart electric vehicle (EV) charging is continuing to evolve as power utilities and other key players in the industry ecosystem identify technical challenges and business opportunities. This project focuses on smart EV / PHEV charging infrastructures and aims to intelligently manage EV/PHEV charging from anywhere using iPhone or any other mobile platforms.
PID:	29
Title:	GPGPU programming for Communications Systems (FFT)
Description:	This project will implement a software project on a graphics processor (GPU). In recent years, The performance of GPUs has increased tremendously with many cores on them. With the CUDA programming environment, it becomes easy to program high-performance applications. In this project, a fast Fourier transform (FFT) algorithm will be implemented using CUDA programming model. The FFT algorithm will be targeted for a gigabit-level communication system.
PID:	30
Title:	SynthCam for Android
Description:	SynthCam is an iPhone app which increases the depth of field of the camera. Cell phones have a small aperture, hence a large depth of field. It means that most of the scene is in focus at once. By recording a video while moving the phone slightly, and blending the frames that are aligned to the same object together aperture of SLR machines can be simulated. Skills needed/to be acquired : computer vision, android programming
PID:	31
Title:	Mathematical expressions checking for online quizzes.
Description:	Several of our classes involve students using mathematical expressions (e.g. what is the derivative of $x + 4$). There need to be a way to automatically check this work. The goal of this project is develop such system by using an open source library for symbolic mathematics like SageMath, Sympy. Skills needed/to be acquired : web programming
PID:	32
Title:	(Hand Gesture Recogniton) Kinect-based Hand Gesture Recognition
Description:	In this project, 3D data capture based systems will be studied and 3D image based hand gesture recognition system will be developed. There will be a set of hand gestures. By using matlab/C++ or Java,

	the student will develop a recognition system to classify the gestures into right meanings. Mathematics background should be strong, or it is a plus if the student likes mathematics and programming at the same time.
PID:	33
Title:	Software Implementation of RSA Utilizing Multicore Processors
Description:	RSA is the most widespread public key cryptographic algorithm we all use in our daily lives without realizing. In any online payment system, the credit card information is sent over the Internet in encrypted form and RSA is the most widely used algorithm for exchanging the encryption keys. Multicore processors have become the mainstream processors for personal computers where these transactions take place on both the user or server sides. In this project, we will implement the RSA cryptosystem by utilizing the possible performance advantages offered by the multiple cores on a processor.
PID:	34
Title:	Implementing a Serial Hardware Multiplier Using Verilog HDL
Description:	Multiplication operation is extensively used in cryptographic algorithms such RSA and ECC, and hence its efficient implementation is critical. In this project, using Verilog hardware description language and XILINX ISE design tools, we will implement a serial hardware multiplier to be used in low power, serial implementations of cryptographic algorithms.
PID:	35
Title:	3D Geographical Routing in Wireless Networks
Description:	Geographic routing in wireless networks is an attractive research area because it provides a scalable routing solution by exploiting geometric information on the network topology and guarantee packet delivery with less storage. While there is a significant body of work on geographic routing algorithms for two-dimensional (2D) networks, geographic routing for practical three-dimensional (3D) wireless networks is relatively unexplored. In this project, a 3D geographical routing algorithm will be designed and evaluated in a simulation platform (Hint: The first version of the source code (in C++) will be available)
PID:	36
Title:	(Museum Search Engine II) Building a Taxonomy and Developing a XML-based Taxonomy Engine(Web Service) for Museum Objects
Description:	There are several museums all around the world. Some examples of these are in the topics of history, science, art, sculpture, book, cinema, etc.. Each artifact in a museum contains information about the history, life style of people, materials of the terms it has been created. To build intelligent applications, web services for museums in a digital world, we need a well organized taxonomy covering all kinds of museums and artifacts, including history, visitors statistics, cafe services, personel, etc.. any information related to museums and artifacts. We are going to study to build a comprehensive but effective taxonomy by using XML or related technologies. Later, we will build web services which

	use this taxonomy to access information in a fast and efficient way.
PID:	37
Title:	Detection and Classification of Leaves from an Image
Description:	<p>The goal of this project is to create a software system capable of identifying and classifying the types of leaves from an image. The software system may use color space conversion, thresholding, connected components, and feature extraction to identify the characteristics of each region of the image corresponding to a leaf, and use the feature values to classify the type of leaves corresponding to each region in the image.</p> <p>Skills needed/to be acquired : Image processing</p>
PID:	38
Title:	K-nearest Neighbor Algorithm
Description:	<p>The goal of this project is to implement k-nearest neighbor algorithm for weighted points on a CPU or GPU. Two different methods will be implemented: the first using brute force and the second is based on kd-trees. As reference algorithms, the two algorithms will also be implemented for a CPU using a single thread. Run-time analysis will be performed to determine which algorithm is best for different input sizes.</p> <p>Skills needed/to be acquired : programming</p>
PID:	39
Title:	GPGPU programming for Communications Systems (LDPC)
Description:	<p>This project will implement a software project on a graphics processor (GPU). In recent years, The performance of GPUs has increased tremendously with many cores on them. With the CUDA programming environment, it becomes easy to program high-performance applications. In this project, a low-density parity-check code (LDPC) algorithm will be implemented using CUDA programming model. The LDPC algorithm will be targeted for a gigabit-level communication system.</p>
PID:	40
Title:	Development of a Network Game
Description:	<p>In this project a client-server based game which can be played by multiple users over the network will be developed. The specific game will be chosen later on. Good programming skills (C++ or Java) are required.</p>
PID:	41
Title:	Facebook Game Application Development
Description:	<p>In this project the student will develop a game application in Facebook. The details of the game will be decided later on. The project requires good programming and web development skills. The student will learn and expertise Facebook APIs and build a working application which can be used by Facebook users.</p>
PID:	42
Title:	(Archeological Objects II) Developing a Flash-based/HTML5 based Animation Tool for Archeological Objects

Description:	In this project, an animation tool will be developed for museum artifacts. A group of archeological objects will be chosen. Historical, artistic, cultural value and stories of these objects will be studied and used to tell the story of the object from past to present. The story will be presented with animations and HTML5 over internet in an interactive way with users.
PID:	43
Title:	Electronic Medical Record System
Description:	The goal of this project is to develop a electronic medical record systems to directly access and edit patient records from a sample database. The system should be accessed from PC and from a smart phone application as well. Skills needed/to be acquired : programming
PID:	44
Title:	Net Defenders
Description:	The goal of this project is to allow parents to choose specific times and dates as well as a range of trusted/untrusted web adress. For example, a parent can choose to block internet access on Monday January 12th from 3:00 pm to 6:00 pm. Skills needed/to be acquired : programming
PID:	45
Title:	A microcontroller based step or servo motor controller
Description:	The aim of this project is to design and implement a Microcontroller to control the speed, direction and step angle of the stepper motor. User can execute the operation by inputting different commands through the keypad on the board and program on the PC. The controller should be able to communicate PC via USB interface. Skills needed/to be acquired : micro controller circuit design and programming
PID:	46
Title:	Location Chat
Description:	Create a chat room based on your location Requirements: HTML5, mobile development.
PID:	47
Title:	Mobile Vision Project 1
Description:	Develop mobile vision algorithms which can recognize objects in a museum. Advantages: be a part of international team and a real world project! Requirements: Android Dev. , motivation to learn AI algorithms, hard work.
PID:	48
Title:	Mobile Vision Project 2
Description:	Develop mobile vision algorithms which can recognize different species of plants. Requirements: Android Dev. , motivation to learn AI and vision algorithms, hard work.

PID:	49
Title:	Mobile Location Based Services 2
Description:	Develop location based mobile services for eco-tourism. Advantages: do a real world project ! Requirements: Android or iPhone dev, good software engineering skills.
PID:	50
Title:	Implementing a Parallel Hardware Multiplier Using Verilog HDL
Description:	Multiplication operation is extensively used in cryptographic algorithms such RSA and ECC, and hence its efficient implementation is critical. In this project, using Verilog hardware description language and XILINX ISE design tools, we will implement a parallel hardware multiplier to be used in fast implementations of cryptographic algorithms.
PID:	51
Title:	Reference Manager
Description:	The aim of this project is to develop a bibliography reference manager. The native file format that the program will support is BibTeX (.bib). A similar program can be found at http://jabref.sourceforge.net Skills needed/to be acquired : Visual programming
PID:	52
Title:	Çanakkale Immersive
Description:	Develop multimedia applications, which can include mobile development, augmented reality, web based multimedia streaming about Çanakkale war. Advantages: Your work can be part of our university's new Çanakkale museum. You will work in experts in the topic. Requirements: Good programming knowledge in general. Have a graphical taste.
PID:	53
Title:	iEMC (android)
Description:	Efficient Machine to Machine communication project. Data is exchanged in XML format, on smart phones (android) , smart TVs, and PCs via Bluetooth. We compress XML for more efficient data exchange rate. For programming you should own a PC, and Android Smart Phone. This is project is supported by Türk Telekom. It is nice to have this work experience on your CV.
PID:	54
Title:	iRecommend(ios)
Description:	Read Amazon.com's whitepaper(s) on the topic of recommender system. Either find real data, or find artificially generated data sets. Implement the recommender engine in PHP, and provide a front end to this engine on an iPhone. For programing you should own a Mac, and iPhone
PID:	55
Title:	iTravel(android)
Description:	Readtravel agencies (orbitz.com, travelocity.com, hotels.com) whitepaper(s) on the topic of recommender system. Either find real data, or find artificially generated data sets. Implement the recommender engine in PHP, and provide a front end to this engine on an iPhone. For programing you should own a Mac, and iPhone
PID:	56
Title:	iEat(ios)

Description:	Read rating agencies whitepaper(s) on the topic of recommender system for restaurants, cafes and bars; if you cannot find anything think a method of your own. Either find real data, or find artificially generated data sets. Implement the recommender engine in Java, and provide a front end to this engine on an iPhone. For programming you should own a Mac, and iPhone.
PID:	57
Title:	iWhere
Description:	Given an address in Turkey find accurate GPS coordinates using existing services (e.g. Google). Put the database in MySQL and provide efficient spatial search. When a user needs to search a location, user can also provide the bounding box.
PID:	58
Title:	iBot
Description:	This is a bot engine written in language of your choice, it should collect data from the internet. User guides the iBot with a GUI. Via GUI user can select what to collect and what not to collect

CATEGORY II

PID:	59
Title:	Mobile Application Development for Travel and Tourism I
Description:	In this project a mobile application which will be used for touristic and travel purposes will be developed. Users of the system will be able to use their mobile phones in order to get information about the places they are visiting and they will be guided by the application in various ways. Good programming skills are required.
PID:	60
Title:	Mobile Application Development for Travel and Tourism II
Description:	In this project a mobile application which will be used for touristic and travel purposes will be developed. Users of the system will be able to use their mobile phones in order to get information about the places they are visiting and they will be guided by the application in various ways. Good programming skills are required.
PID:	61
Title:	Mobile Application Development for Travel and Tourism III
Description:	In this project a mobile application which will be used for touristic and travel purposes will be developed. Users of the system will be able to use their mobile phones in order to get information about the places they are visiting and they will be guided by the application in various ways. Good programming skills are required.
PID:	62
Title:	iRate (ios)

Description:	Develop a mobile application for iPhone which enables rating restaurants and coffees. This application requires membership; each member can rate a restaurant and leave a comment. Other users can check the ratings and decide which restaurant to pick for dinner. For programming you should own a Mac, and iPhone.
PID:	63
Title:	iRate (android)
Description:	Develop a mobile application for Android smart phones which enables rating restaurants and coffees. This application requires membership; each member can rate a restaurant and leave a comment. Other users can check the ratings and decide which restaurant to pick for dinner. For programming you should own a PC, and Android Smart Phone.
PID:	64
Title:	iNeed (android)
Description:	Develop a mobile application for iPhone which shows closest emergency rooms, and their contact information. When a user opens this app, current location should load and closest emergency services should pop up. For programming you should own a PC, and Android smart Phone.
PID:	65
Title:	iOrganize(android)
Description:	Implement a personal organizer on Android smart phones. It should be fully functional and should provide visual and sound reminders. For programming you should own a PC, and Android Smart Phone.
PID:	66
Title:	Android-based Accident Management System
Description:	Traffic accidents are one of the leading causes of fatalities in many countries. 80% of the fatalities occurs within a few hours after the accident. Early and effective accident management systems are crucial to save lives. In this project, existing accident monitoring, reporting and management systems will be studied and based on this investigation, a new accident management system will be developed through a Smart Phone Application Platform, such as iPhone.
PID:	67
Title:	iPhone-based Accident Management System
Description:	Traffic accidents are one of the leading causes of fatalities in many countries. 80% of the fatalities occurs within a few hours after the accident. Early and effective accident management systems are crucial to save lives. In this project, existing accident monitoring, reporting and management systems will be studied and based on this investigation, a new accident management system will be developed through a Smart Phone Application Platform, such as iPhone.
PID:	68
Title:	Social Networking Website
Description:	Creation of a social networking website for current and past alumni of Bahçeşehir University
PID:	69
Title:	Online Survey System
Description:	The goal is a project for creating, administrating, and analyzing online surveys. Custom surveys can be formed using a variety of question templates

	<p>(e.g., multiple choice, free answer, quantitative rating). When complete, the survey will be made available on the internet, either to invited respondents or to anyone given the appropriate URL. The back end will offer the survey owner the ability to generate a recreation of an individual respondent's completed survey, or composite data for all subjects.</p> <p>Skills needed/to be acquired : web programming</p>
PID:	70
Title:	Restaurant Rating System
Description:	<p>A web based application to rate restaurants.</p> <p>Requirements: Web development</p>
PID:	71
Title:	Conference/Event Tracking system.
Description:	<p>A web based interface to track events and conferences.</p> <p>Requirements: Web development.</p>
PID:	72
Title:	Bucket List Android Application
Description:	<p>A bucket list is a list of things such as activities that you are going to do before you die. In this project, the student is expected to develop a bucket list application for Android smart phones. The user will be able to publish his/her bucket list, check and share photos when the task is completed. Good programming skills are required. For programming you should own an Android smart Phone.</p>
PID:	73
Title:	Development of Foreign Language Learning Quizzes and Games for iPhone
Description:	<p>The goal of this project is developing some memory and speed games and quizzes for iPhone in order to measure the level of the knowledge of English words and fasten the process of memorizing the meanings of English words. The student must have a Mac and iPhone. Good programming skills are also required.</p>
PID:	74
Title:	Restaurant Finder Mobile Application for iPhone
Description:	<p>The goal of this project is developing a mobile application for iPhone that suggests the closest restaurants under some categories. The application will let the user to see the location of the closest restaurants and brief explanation about them. The student must have a Mac and iPhone to run the application.</p>
PID:	75
Title:	Restaurant Finder Mobile Application for Android Smart Phones
Description:	<p>The goal of this project is developing a mobile application for Android Smart Phones that suggests the closest restaurants under some categories. The application will let the user to see the location of the closest restaurants and brief explanation about them. The student must have a Android smart Phone to run the application.</p>
PID:	76
Title:	Real State Agency Web Site
Description:	In this project a web site will be build which will let people to search

	for houses for rental and sale. House owners will be able to advertise their own houses. The end product will be a fully functional web site. The project requires good web application development and programming skills.
PID:	77
Title:	Web Based Exam Tool
Description:	In this project the student is required to build a web based exam tool which will let instructors to create different type of exams. The system will let the students to take the exams and the results can be analyzed by the instructors. The project requires good web application development and programming skills.
PID:	78
Title:	Web Application for Campus Events Posting
Description:	A web application will be developed where students can post and follow campus social or academic events online.
PID:	79
Title:	Web Application for Used Textbooks Sale
Description:	A web application will be developed where students can advertise their textbooks from the previous academic year for sale. Students in need of specific textbooks will also be allowed to post their needs. All advertisements for sale or purchase of textbooks will be seen and it will also be possible to search for a specific textbook by title or author. The website will allow the users to contact each other by email.
PID:	80
Title:	Web Application for Matching Blood Donors with People in Urgent Need for Blood
Description:	A web application will be developed where people in urgent in for a specific blood type can look up for potential donors from a database and contact them via email. the website will allow for donors to register themselves with their blood type and contact email.
PID:	81
Title:	Web Application for Library Inventory Management and Monitoring
Description:	A web application will be developed for library inventory management. It will be possible to register new books, CDs, etc. to a central database and then check items in and out of the database. The system will allow for online searching of the status of specific items in the library by author or title search.
PID:	82
Title:	Bahcesehir Alumni Employment Page (BAEP)
Description:	BAEP requires the development of a web portal with php and mySql. An alumnus will create an account and enter his/her employment information on this page. And current students will be able to search that information.
PID:	83
Title:	Development of a Software for Dentists to Keep Track of Their Patient Records
Description:	Running a dental practice involves extensive record keeping of bills, patient charts and X-rays. In this project, the students are expected to develop a dental-practice-management software that stores all relevant patient data, treatment history, insurance information and other printed documents. This

	software will store the images of the patient's driver's license, insurance card and signature confidentially; and keep track of all billing issues.
PID:	84
Title:	Web Application for Management of Capstone Projects
Description:	The goal of this project is developing a web application to manage the capstone projects over the web. The students will be able to upload their project preferences, midterm and final reports. The supervisors and project coordinators will be able to evaluate the midterm and final reports of their students. Web programming and database skills are required.
PID:	85
Title:	Web Application for Management of Summer Trainings
Description:	The goal of this project is developing a web application to manage the summer trainings over the web. The students will be able to upload their summer training reports over the web. The coordinator will be able to approve, reject, ask for revisions, display the summer training status of the students. The students will be able to read summer training rules and ask their questions to the coordinator via a message system. Web programming and database skills are required.
PID:	86
Title:	Web Based Adaptive Testing Tool for Introductory Computer Programming Courses
Description:	The introductory computer programming courses have great importance for the computer science students to improve their programming capabilities and algorithmic reasoning. In this project, a web based testing tool will be developed in which the students will be able to measure their programming capability. The administrator will upload questions and determine their difficulty level. The difficulty level of the questions will be updated automatically according to the correctness rate.