ICOM 5047

YOU ARE CORDIALLY INVITED TO THE COMPUTER ENGINEERING DESIGN COURSE FINAL PRESENTATIONS

Capstone Groups

ANDINO Technologies

EcoBit

SoftComp Solutions

Kleio

KiwiTeam Software

Paradigm Innovation

Presentations

On

May 11, 2015

- Oral presentations
- 9:30am to 11:30am
- Stefani 113

- Project Demos
- 11:45am to 12:30pm
- Stefani 123

AGENDA
May 11, 2015, Stefani 113

9:30 AM - 9:50 AM
Team: ANDINO Technologies - Diego Rodríguez , Antoin J. Abboud and Noel E. Sopeña
Project: ANDINO Legal Solution
The Legal Affairs Office of the Puerto Rico Police Department handles all the administrative inquiries and disciplinary measures throughout Puerto Rico. These inquires and measures are complaints, transfers, motions, subpoenas, lawsuits, and agreements. The main objective is to create a document management system to manage the aforementioned information of the Legal Affairs Office of the Puerto Rico Police Department. A database will be created to handle the office's information in a more organized manner and a functional system that allows the secretaries to enter and obtain information from the database. The software will issue alerts to users in the event that a document is about to expire and will be able to generate statistical reports about how many documents and what kinds of documents each secretary and lawyer manage.

9:50 AM - 10:10 AM
Team: EcoBit - Jammy Vélez, Edwin Negrón, Orlando Camacho, Roberto Calderón and Josué Rodríguez
Project: NaturEye
NaturEye will be a remote wildlife monitoring system that will provide a continuous video feed of the María Langa cay in Peñuelas, Puerto Rico. This system will consist of cameras attached to microcontrollers that will transmit video using point-to-point antennas. Since there is no electricity on the cay, the cameras will be powered by batteries that will be charged with solar panels. There will be two types of cameras, one portable and two stationary with capabilities such as remote controlled panning, tilting, and zooming. Casings will be designed and built to protect them from rainwater, saltwater, and wind. Part of this system will include transmission antennas that will provide networking capabilities between the cameras and the internet. These antennas will be directional and capable of transmitting the video stream with more than 150 megabits of bandwidth. Videos obtained from the cameras can be catalogued in a database, which will also contain information about the cay's flora and fauna.

10:10 AM - 10:30 AM
Team: SoftComp Solutions - Jayson Soto, Juan Nieves,Andres Malines and Wesley Martinez
Project: Report Generating Tool
Report Generating Tool will allow students enrolled on the course ININ 5105 (Medical Device Design Methods) the creation of both the Product Definition Process and the Design Process of a medical device by providing them forms, tables, and text fields related to all the analysis that they have to complete for the development processes.

10:30 AM - 10:50 AM
Team: Kleio - Luis Medina, Jose Martinez and Cesar Cruz
Project: Digital Learning and Mobile Technology at MuSA
The Kleio team will be developing a mobile application for the Museum of Art at RUM. This application will provide varied information about art pieces, in text, audio, or video form. Users will be able to scan QR codes or iBeacons to locate a specific work and learn more about it. With social media integration, visitors will be able to share and comment about their experiences. The application will also provide trivia questions for visitors to answer that will be monitored on a leader board. The museum staff will manage the content available to the application and its users with an administrative web page. The application is slated for iOS and Android release.

10:50 AM - 11:10 AM
Team: KiwiTeam Software - Jose A. Virella, Lexter L. Seda, Luis M. Tavárez
Project: No Middle Man
No Middle Man is an online service where extreme tour businesses may advertise and sell their services. Extreme or adventure tourism are becoming highly sought after experiences. However, there is no central online infrastructure for booking extreme tours. No Middle Man features a website and Android application where tourists are able to schedule and purchase extreme tours. The system will also support a tour guide portal where extreme tour guides may post their tours for sale, including helpful information (i.e. videos, photos, description, price).
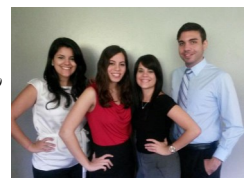

11:10 AM - 11:30 AM
Team: Paradigm Innovation - Maria Rivera, Heidi Negron, Jaimeiris Nieves and Randy Soto
Project: Conference Admin: CCWiC's Conference Management System
The Caribbean Celebration for Women in Computing (CCWiC) was first held in 2014, encouraging women to pursue computing-related majors. Paradigm Innovation will develop a conference management system that the organizers of the CCWiC conference can use for the planning of the next conference to be celebrated in 2016. The web-based system will provide an organizer for conference planning and management that facilitates conference registration and payment, document submission, document review and acceptance, sponsorship and social media management.

11:30 AM - 11:45 AM
Group Picture

11:45 AM - 12:30 PM
Project Demonstrations in Stefani Building 123

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Capstone Groups

SBM Link

RENeR

Instant Health Solutions

NeptunoLabs

DGUP Technologies

Hardcoded

Presentations

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- Oral presentations
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AGENDA
May 11, 2015, Celis 116

9:30 AM - 9:50 AM
Team: SBM-Link - Mileyska Rodriguez and Angel R. Llera
Project: SBM-Link
SBM-Link is an process and toolkit to characterize and import schools into SBM's school management system Scholar-Link. It provides SBM with the user webpage account to be able to create and manage users and schools. Within are contained the necessary functions to quickly import a school via a .csv file or simple on-page questionnaire, and create all it's default values, from school-year details to grade scale metric, and even import the student list; once these are imported the school should be able to make full-use of Scholar-Link with little effort.

9:50 AM - 10:10 AM
Team: RENeR - Ricardo Fuentes, Nelson Reyes, Enrique Rodríguez and Ramón Saldaña
Project: Reengineering the Agricultural Extension Service
A web and tablet application for use by the Agricultural Extension Service (SEA) to create and conduct surveys with cattle ranchers and provide them with recommendations to improve their cattle.

10:10 AM - 10:30 AM
Team: Instant Health Solutions - Eddie Pérez, Samuel Feliciano and Luz M. González
Project: Endorisk
Endometriosis is a disease that affects women reproductive system. For Puerto Rican women there is no tool to obtain a preliminary idea of this condition according to their symptoms. Endorisk consists of a web-based application where Puerto Rican females can calculate their lifetime risk of suffering from endometriosis. Also, the application will provide data-base storage to manage the results, other questionnaires, and educational modules, with the purpose to create more awareness about this disease.

10:30 AM - 10:50 AM
Team: Neptuno Labs - Luis R. de la Vega, Rafael A. Pol, Edwin O. Badillo, Juan E. Miranda and Sam E. De La Torre
Project: MatchUp
The biggest problem that event organizers face when producing an eSports tournament is the lack of a centralized management tool. Currently, organizers are bound to use several different software services and manual methods to manage and keep track of events. This involves using social media to promote events, form builder websites to handle registrations, downloading bracket generation software, manual scheduling of matches and scorekeeping, and lack of record keeping after the events are over. Neptuno Labs will be developing "MatchUp"; an eSports management platform and social network accessible via web or mobile application. The system aims to serve as a one-stop place where event organizers, competitive players, and gaming enthusiasts can find, create, and manage events.

10:50 AM - 11:10 AM
Team: DGUP Technologies - Alejandro Torres, Kevin A. Castillo, Juan J. Morales and Manuel A. Correa
Project: Sysdat
Sysdat is a data management system aimed to the educational organizations. Sysdat, will store all the data generated by the organization in a database. To use this database, a web based application will be created serving as the main component of the system. The organization's members will use this application to manage their information and to generate reports. Also the system will manage activities, attendance, and progress reports. The system will include a mobile application to take attendance in activities. The mobile app will work without network connection and upload the collected data to the database when a network is available. All of these three components form a complete solution, giving the organization a data management system capable of collecting all the data necessary to generate a report, facilitating their administrative process .
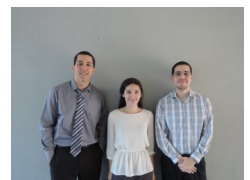
11:10 AM - 11:30 AM
Team: Hardcoded - Alicia M. Surillo , Jan C. Solá and Juan L. Torres
Project: uManage: Web Portal for uDiscover Data Management
uDiscover is a mobile application owned by WLG Innovations, which was previously developed by UPRM Capstone students. It provides users an interactive media platform to enjoy detailed information such as videos, photos, and audio about venues of interest they visit within Puerto Rico. Although uDiscover works very well, the process of maintaining the application up-to-date is very tedious. Administrators from each venue have to contact WLG employees every time they wish to make a change about the information that appears to uDiscover users regarding their venue. To address this problem, the uManage solution was proposed. uManage is a system that will work as a portal in which venue administrators can update uDiscover information regarding their venue by themselves, in a fast and easy way, taking away the inconvenience of having to contact WLG constantly.

11:30 AM - 11:45 AM
Group Picture

11:45 AM - 12:30 PM
Project Demonstrations in Stefani Building 123