Dept of Computer Science and Information Systems

BSc Final Year Project Form (2015/2016)

1. Proposal

The student should complete parts 1(a), 1(b) and 1(c) below, and then agree the maximum pocket values with the supervisor and put these in part 2(a) below. An electronic version of this form should be uploaded to the Final Year Project page on Moodle no later than **Monday 2nd November 2015**.

(a) Student details

Name:	**Module:** Project Information Systems and Management
Email:	Project Type 3 (BUCI026S6)

(b) Project details

Title: Pension Management System

Title:
Pension Management System

Objectives:

The objective of this project is to develop and implement a localised solution to address day-to-day challenges faced by the management company for pension funds using technology platforms.

Pension is the regular payment made during a person's retirement from an investment fund to which that person or their employer has contributed during their working life. (Oxford Advance Leaner's Dictionary)

Traditionally, administration of the pension fund has been mainly paper-based and the management company manually handles the process. This method keeps and maintains records of each customer in a physical filing cabinet and therefore inefficient to process account for new and existing customers, update customers accounts, and disburse their fund.

This project aims to design a web-based pension management system to manage pension processes both on the customer and pension managers' side. The pension management activities includes create/update of customers' information, crediting customers' account, if the customer is retired etc. while customers' activities include creating account, checking their balance online, making enquiries by sending mails, etc.

The proposed system will provide benefits as follows:

a) Web access to customers and pension managers
b) Customer information available on-the-go
c) All time availability of enquiry service
d) Increase the efficiency of the pension managers
e) Timely response to customer's needs
f) Reduce human error in the process
g) Reduce paper processing
h) Security

Description:

Database that will be used by this system will consist of several tables namely: Admin, Employee, Employer, Pensioner, Fund balance, Transaction etc.

Data Description Language (DDL) will be used to define the types of data in the database and their relationships.

The system will have a web based front-end layer for users to visualise and manipulate the data. The users will have a username and password to access the system.

Title:
Pension Management System

Method:

Analyse

This activity will include engaging users to define specific requirements, requirement gathering and analysis, analysis of the existing (As Is) processes.

Design

Inputs from the defined requirements will be translated into system's functions and operations, and will be described in detail, including screens layouts, logic, process diagrams, activity diagrams, entity relationships and data flow diagrams.

Build

The technology that will be used for the design and implementation are Hyper Text Markup Language (HTML), for writing static document to the web, Hypertext Preprocessor (PHP), for web applications design, MySQL Database, a relational database system (RDMS), for storage, update and retrieval of data, Cascading Style Sheet (CSS), for styling the webpage and a web server for running the system on the web.

Test

The code will be tested in unit testing and system testing will be performed. All defects identified will be resolved and closed.

Work plan:

- Agree scope and define requirements
- Specify functional design and produce design diagrams
- Write program code
- Perform unit testing
- Perform system testing
- Fix bug

College equipment required:

N/A

manual is added to the report.