University of Nebraska Omaha
ISQA 3900 - Web Application Development
Assignment 2 - Building an Integrated Multi-Table Web Application

Objectives

- Demonstrate basic HTML, Python skills in building a web application integrated with both a database and an external web services using an IDE (Integrated Development Environment).
- Demonstrate your ability to work with cloud-based systems and local applications and services.
- Gain an understanding of the value of the MVT (Model View Template) Framework
- Develop a MULTI-TABLE web/database application.
- Demonstrate best practice code management by using Git on your laptop and Github as a code repository.
- Demonstrate ability to build and execute functional test cases for an application.
- **See the 'Assign 2 - Tutorial - Maverick Food Services Tutorial-Part 1.docx' for a tour of the application and 'Assign 2 - Tutorial - Maverick Food Services Tutorial-Part 1.docx' for additional details.**

Introduction

Maverick Food Services is a fictitious organization which provides food services in a campus setting. The catering manager for the food services organization needs to keep track of customers in order to grow their profits by marketing to these customers and their colleagues. Some type of a database is needed to track customers and the products and services they acquire over time. This type of system is often called a customer information database or a customer relationship management database or CRM for short. In this assignment, you will build a CRM for the Maverick Food services organization. The application shell is provided which initiates the application, but the remaining functionality must be implemented and deployed to PythonAnywhere.

Deliverables for Assign 2:

1. After completing the tutorial posted with this assignment and completing the additional tasks defined in the tutorial, take screenshots of your running Maverick Food Service (MFS) Customer Relationship Management (CRM) Application and the admin page of the application running on your computer and save the screenshots to a file. The URL should be easily visible in the screenshots showing localhost (127.0.0.1).

2. Add a link to your MFS CRM application deployed to PythonAnywhere to the Word document.

3. Also push your application code to the Assign2 Github repo created for you for this class. The GitHub invitation for this assignment is posted to Canvas with this file.

4. Create an additional superuser in the application deployed to PythonAnywhere with the following credentials so I can login and use all features of the application:
   ID: instructor
   Email: svlasnik@unomaha.edu
   Password: maverick2

5. Create a Functional Test Cases Spreadsheet for this application based on the sample file provided with this assignment and include this file in your GitHub repo. See this Assignment on Canvas for a sample file that includes a template.

See Canvas for the grading Rubric for this assignment

Extra Credit Opportunity:

Earn up to 10 points extra credit by adding one additional feature to this application. Optional extra features include:

1. registering/signing up for the site
2. 'forgot and reset password' features with functioning e-mail notification
3. saving the customer report out as a pdf file
4. saving the customer report as an excel spreadsheet file (.csv format).

If you choose to implement features for extra credit as defined above, indicate in your doc file submitted with the assignment or in Canvas comments for the assignment the features you implemented.