

System Guide

Commerce Bank Budgeting Application

Team #6
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CS451R
University of Missouri-Kansas City

System Installation

The Budgeting Application project was developed using Microsoft Visual Studio 2008 platform, and .NET 3.5. To begin the installation, Visual Studio 2008 must be installed on the computer being used as the first step. For students at the University of Missouri – Kansas City, a copy of Visual Studio 2008 can be downloaded from Dreamspark.

Now that the Visual Studio 2008 platform has been installed on your machine, the budgeting application can be downloaded from the Github repository <https://github.com/cs451/Spring2017Team6>. Access to the project repository may be requested from Eddie Burris (burris@umkc.edu)

Once a copy of the project has been exported to your local system, run the application through Visual Studio.

User Interface

The user interface is comprised of six pages, where a user can interact with and edit their budgeting decisions. We decided to implement our solution as a stand alone web application, which meant that there was some potential for repeated features from the Commerce Bank website. A detailed guide for the interface can be found in the User Guide document.

Models

The models for this application hold data that the application needs to know about so that the views can display the correct information. For example, the BadgesModelView has the variables badgeCount and totalBadgeCount, which are used to display the badge count on the badges page.

Views

The views encompass the actual displaying of information for the application. Any objects that need to be displayed are handled within the views section of the code. Anything from a badge to a budget goal is categorized in this section.

Models and the Database

The physical database is implemented using Microsoft SQL Server 2012. The program interacts with the database through a database abstraction layer, which is effectively a controller.

Each page also has its own controller, named after each parent page. These controllers handle the content that is displayed on each page by retrieving data from the database and altering it how necessary.

