iBudget

Project Proposal
written by Churk Leung

Approvers:
- V. Dineva   VD   2/13/2012
- L. Assayah   LA   2/13/2012
- Q. Pham   QCP   2/13/2012
- V. Velev   VV   2/13/2012
- J. Reimels   JR   2/13/2012

1. Overview

iBudget is a financial web application. It will combine data that is exported from any financial institution, such as Banks, Credit Cards, Loan companies, and others, and display them in a user-friendly dashboard. The following features will be available to yours.

- Custom categorization of expenses and earnings
- Budget Planning, able to set spending limits for particular categories
- Charts and graphs of spending distributions
- User preferences
- Secure logins
- Ability to import CSV data from any financial institutions, and able to custom map each field.

2. Goals and Scope

1. We must create a database system that is able to handle and scale with large amount of financial data
2. Create User Login
3. Create a user interface where user can custom map fields to their imports
4. Create a processor that will ingest CSV data and insert them into the database
5. Create a MVC structure so we can clearly and precisely develop on
6. Create dashboard that shows expending and earn of each category
7. Create charts and graphs for better visualization and understand of data

3. Schedule

Week 1.
    Brain storm and think of a project that may be suitable as a 1-semester class project.

Speak to classmate to form a group for group project.
Setup Google Code page to source control the project and track bugs, tasks, and enhancements

Week 2.
Talk to all members of the team and agree upon a single idea as the group project.
Identify roles for each member of the team.

Week 3.
Draft proposal plan
Draft Software Configuration Management Plan (SCMP)
Draft Software Quality Assurance Plan (SQAP)
Draft Software Project Management Plan (SPMP)

Week 4.
Analyze major financial institution exports so we can understand what we need to store
Start Database Design
Set up development environment

Week 5.
Set up MVC structure using PHP, Smarty Template Framework, and MySQL
Start development on User Login and User Preferences

Week 6.
Create custom user interface for field mapping
Create user interface to create user customize categories

Week 7.
Start development on data translation
Start working on dashboard
Start working on Graphs and Charts

Week 8.
Develop test units
Start Testing and discover bugs

Week 9.
Maintain phase begin

4. Risk Management

We have a clearly defined requirement, and we have a very short time to complete this project, we are utilizing the waterfall method in creating this project. The risk of this would be over ambitious amount of features. Another risk could be the database schema is not robust enough to handle any future enhancements. Most likely we would not have this problem.