Software Requirements Specification
For
Idea Engine

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Version 1.0

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Revision History

Version	Date	Name	Description
1.0	9/22/2014	R.Johnson	Initial publish

1 Introduction

1.1 Overview

Commerce bank development team often coordinates with local universities and colleges to create technologies that give students experience in the software life cycle. A great way to learn this technical process is to work through a project with real-life requirements.

In order to be effective, commerce employees need a focal point to collect project ideas, refine the project details, and then send the project into production.

This document provides information specific to the requirements of the project. The assumed audience is any party involved in the development of this application. Developers, customers, and stake holders.

The requirements listed serve as a baseline. Once released, any requirements changes must be made through a structured configuration management process.

1.2 Goals and Objectives

The basic goal of this project is to create an application that allows project ideas to be managed orderly and systematically.

1. The system will provided a single point of collaborative thought and idea brainstorming.

2. A collective list of submitted project ideas in various stages will be provided to all users of the system.

3. Each project contains the details and necessary information to carry out the project into production

4. A single point of administration will allow for effective control and quality assurance.

1.3 Scope

Our scope is confined to providing the unique abilities for all categories of users to use the product as it is intended.
An important consideration is how security is provided. Commerce authenticates users with their domain controller given a user's permission groups in Active Directory, so this is outside of our scope.

1.4 Definitions

1. Contributor - any Commerce domain user that wants to see a list of submitted idea, submit their own idea, or subscribe for notifications to any project.

2. Ambassador - an independent coordinator between a project idea and a school.

3. Admin - a user that has full control of all features within the system.

4. School - A set list of universities teamed with Commerce Bank. Schools are not a user of this system.

5. Idea - A loosely put together collection of thoughts submitted by a contributor. Once an idea has been revised to the point it is accepted and ready to be assigned, it will become a project.

6. Project - An idea that has become assigned to an Ambassador.

7. Use Case - describes a unique situation within the application, and the possible user scenarios within that situation.

8. Role - categories of users that share similar characteristics.

2 General Design Constraints

2.1 Product Environment

Commerce Bank IT systems will house this application on their servers. The DBMS and compiled application are nested by Commerce. The system is accessed via a web interface to users on the intranet. The data maintained by this application is stored in a SQL database.

2.2 User Characteristics

- All system users will access the web interface from their domain account. It is assumed all domain users who access this system will have a general knowledge of navigating web sites. The majority of the users are non-technical.

- Contributor - any user of this system, including Ambassadors and Admins.

- Ambassador - generally technical and will need little training to use this application

- Admin - generally technical and will need little training to use all the features of the system.

2.3 Mandated Constraints

- The system will be developed using the ASP.NET framework.

- MVC will be used to control data flow to the interface

- C# will be the programming language used by the View Controllers.

3   Nonfunctional Requirements

3.1   Operational Requirements

Interaction with the system will be on a visual web interface. The hardware interaction with this application will use I/O only (keyboard and mouse).

3.2   Performance Requirements

This is a small-scale application, so performance costs are not high. The cost of maintainability is currently unknown.

3.3   Security Requirements

Security is provided by Commerce domain controller/out of the scope of our project.

3.4   Other Quality Attributes

- The system is a web interface, so assuming the application server is online, the application will be available.

- Each project submitted will have a revision history that shows information about changes/revisions to a project/idea.

3.5   Documentation and Training

A comprehensive user guide will be created. The web interface will be designed such that most users of this application will have an intuitive feel to use the features. The only additional training users can expect is the user guide.

3.6   External Interface

External interfaces may be user interfaces or software interfaces.

3.6.1 User Interface

The external interface will provide a professional look. The important features will be highlighted and easy to find quickly. A measurement of this can be done, and it is expected that 95% of users will use 80% of the features within 20 second without prior training.

3.6.2 Software Interface

The software interface is a web browser. Commerce currently support Internet Explorer 9 and above.

Any external DBMS is outside of our scope.

Functional Requirements

3.7 Use Case: UC001

Description: View a list of submitted projects.
Value = high
Cost =

Title:	As an idea contributor, I want to view a list of submitted projects.
Use case ID:	UC001 S1
Actor:	Contributor
Description:	This use case describes the medium where project ideas can be submitted

Basic Flow:

1. This use case begins when a contributor arrives at a landing page.

2. The user can view a list of submitted projects in a table.

Alternate Flows:

Exceptions:

1. No exceptions here

Open issues:

1. No known issues.

3.8 Use Case: UC002

Description: Contributor submits an idea and receives acknowledgement.
Value =
Cost =

Title:	As an idea contributor, I want to submit an idea and receive acknowledgement.
Use case ID:	UC002 S2
Actor:	Contributor
Description:	This use case describes how project ideas can be submitted
Basic Flow:	

Basic Flow:

1. This use case begins when a contributor is at the landing page

2. The user sees the submission area and enters the required criteria

    a. Required – Text Field - Title (X characters)

    b. Required – Text Field - Summary

    c. Required – Text Field – Business Use

    d. Optional – Button - Upload a File

    e. Optional – Checkbox - Subscribe to this project for notifications

3. The contributor submits the idea

4. The contributor receives instant notice of submitted/not submitted.

Alternate Flows:

1. A submission might have had an error in the submission. The user can try again.

Exceptions:

1. No exceptions here

Open issues:

1. We need to determine file types to be uploaded and max file sizes for upload.

2. Limit to .doc,.docx, .pdf, .txt, .ppt, .pptx, .msg

3.9 Use Case: UC003

Description: Contributor edits own idea/project submissions.
Value =
Cost =

Title:	As an idea contributor, I want to edit my own idea submissions.
Use case ID:	UC003 S3
Actor:	Contributor
Description:	This use case describes what happens when the user wants to edit information on an idea after it has been submitted.

Basic Flow:

1. This use case begins when a contributor clicks the submit button on the submission form

2. The list of projects is updated with all submitted ideas/projects

3. The contributor finds his submission and takes steps to edit the project.

4. The contributor gives a description (comment) of the update.

5. The contributor saves the update.

Alternate Flows:

1. A user may exit the editing task before saving. The updates will not save.

Exceptions:

1. No exceptions

Open issues:

1. No open issues

3.10 Use Case: UC004

Description: Contributor filters view to projects they've submitted
Value =
Cost =

Title:	As an idea contributor, I want to filter my view to projects I've submitted.
Use case ID:	UC004 S4
Actor:	Contributor
Description:	This use case describes what happens once contributor has submitted at least one project.
Basic Flow:	
1. This use case begins when a contributor has submitted an idea. 2. A table on the landing page updates to show the user's submitted project idea. 3. A filtering option is shown to with an option 'View Projects Submitted by Me'. 4. The user chooses the filtered option, and the table updates to show projects submitted by that particular contributor.	
Alternate Flows:	
1. No alternate flows	
Exceptions:	
1. No known exceptions	
Open issues:	
1. Maybe there is a refresh button that queries the table results?	

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