

# Project 2 Plan – Team 17

Revision 1

## 1 Introduction

The goal of this project is to create an android application to manage a rewards system for the VIP customers of a coffee shop. This application will enable special VIP customers to accrue points for each purchase. The reward points will be used to enable the VIP customers to receive product discounts and other rewards. Additionally, VIP customers will have the ability to pre-order new dessert offerings. The application will allow the coffee shop manager to generate reports for pre-orders and VIP customer purchases. We will be following the Unified Software Process to plan and implement this project.

## 2 Process Description

- **Inception:** In this phase, the project team will create a vision for the end product, decide on project scope, and make a business case for the product.
  - **Entrance Criteria:** This phase starts when the project team is assigned the project. The project team will require a description of the required project
  - **Exit Criteria:** The phase ends when all stakeholders have agreed on a project vision, scope, use-case model, project plan, and risk assessment. This step may also produce an early prototype of the application.
- **Elaboration:** In this step, the project design details and architecture start to form. The elaboration activities should target the prominent risk areas highlighted in the risk assessment document produced in the inception phase.
  - **Entrance Criteria:** The elaboration phase requires the initial document produced in the inception phase - especially the risk assessment and use-case model.
  - **Exit Criteria:** The elaboration phase will be considered complete when all stakeholders agree on a newly revised use-case model, a software architecture document, software design, risk assessment, test cases, and a revised project plan. At the end of this phase, there should an executable prototype of the software. This prototype can demonstrate a limited set of functionality, but it's functionality should be targeted to mitigate risks that were highlighted in the risk assessment.
- **Construction:** The primary focus of the construction phase is to build the application.
  - **Entrance Criteria:** The work completed in the construction phase will be based on the documents that were created and revised in the elaboration phase - most importantly, the design, architecture, and use-case models. If the prototype created during the elaboration phase closely matches the agreed upon design and architecture, than it can be used as a starting point for the application development.
  - **Exit Criteria:** The main product of the construction phase will be an executable alpha/beta build of the software application. There should also be a completed use-case model with traceability information included.

- **Transition:** The goal of the transition phase is to roll the software out to its end users.
  - **Entrance Criteria:** The transition phase requires a completed alpha/beta build of the software application.
  - **Exit Criteria:** This phase should produce a high-quality, fully validated and refined final version of the software application.

### 3 Team

- **Team Members:**
  - Sunitha Dasari
  - Christopher Shultz
  - Elena Zlatopolsky
  - Josh Killingsworth
- **Roles:**
  - **Project Manager:** The project manager will facilitate meetings and project planning. They will be responsible for making sure project components are delegated to team members and are being completed on schedule. The project manager will confirm that all required files are completed, checked into GIT repository, and submitted to T-Square before assignment deadline.
  - **Development Lead:** The development lead will take on the primary responsibility for software development. The activities of the development lead will include both software development and delegation of development activities to the appropriate team members. To comply with waterfall process, they should ensure that all requirements have been completed before software development begins. The development lead will also ensure that all software files have been checked into the final repository revision.
  - **QA Manager:** The QA manager is responsible for software quality. Their primary job will involve developing test cases and delegating test case development whenever necessary. The QA manager will make sure all test cases pass successfully and they are finished by the assignment deadline and included in final repository.
  - **Documentation Lead:** The documentation lead will be responsible for writing quality documentation and delegating documentation duties whenever necessary. They will also ensure that all documentation has been assembled and included in final repository revision.
  - **Developer:** All developers will be responsible for some portion of the software development. They will write software in accordance with the requirements document and fix errors that are found in the testing phase of the project.

- **Role Assignment Matrix:**

	Project Manager	Development Lead	QA Manager	Documentation Lead	Developer
Sunitha Dasari			X		X
Christopher Shultz				X	X
Elena Zlatopolsky		X			X
Josh Killingsworth	X				X

#### 4 Time Estimates and Project Schedule

- **Total Estimates:**

- Total Effort Hours: Estimated 105 hours between all project resources

- Scheduling and Detailed Assignments::

Activity	Effort Hours	Start Date	Hard Due Date	Lead
<b>Inception</b>				
Vision Document	2	6/22/2014	6/29/2014	Elena
Initial use-case Model	4	6/22/2014	6/29/2014	Sunitha
Initial risk assessment	4	6/22/2014	6/29/2014	Chris
Initial Project plan	4	6/22/2014	6/29/2014	Chris
Optional prototype	4	6/22/2014	6/29/2014	Josh
<b>Elaboration:</b>				
Almost complete use-case model	2	6/30/2014	7/6/2014	Sunitha
Supplementary requirements	4	6/30/2014	7/6/2014	Josh
Software architecture	8	6/30/2014	7/6/2014	Josh
Initial design model	2	6/30/2014	7/6/2014	Sunitha
Test cases	8	6/30/2014	7/6/2014	Elena
Executable prototype	4	6/30/2014	7/6/2014	Elena/Josh
Revised risk assessment	2	6/30/2014	7/6/2014	Chris
Revised project plan	2	6/30/2014	7/6/2014	Chris
Preliminary user manual	4	6/30/2014	7/6/2014	Elena

<b>Construction:</b>				
Complete use case model	4	7/7/2014	7/13/2014	Eleana
Traceability information for a couple of use cases	2	7/7/2014	7/13/2014	Josh
Alpha/beta software		7/7/2014	7/13/2014	Full Team
(Possibly partial) system test results	4	7/7/2014	7/13/2014	Josh
User manual	4	7/7/2014	7/13/2014	Elena
<b>Transition:</b>				
Final Development	24	7/14/2014	7/20/2014	All
Submit Project	1	7/14/2014	7/20/2014	Chris
System testing	8	7/14/2014	7/20/2014	Sunitha
Traceability information on all test cases	4	7/14/2014	7/20/2014	Josh