**Project - Inception and Elaboration Phase Deliverables**

**Vision, Supplemental Specification, Glossary, Rapid Prototype, and Product Backlog**

The most important step in the software development process is to understand the problem to be solved. The “problem” is typically a set of “needs” of the client related to their business or organization. If you come up with a great solution that does not meet the needs of the client, your project will not be a success!

The **Vision** document is one of the early documents that we create in our software development methodology. It’s our opportunity to work with the client to establish a common vision and basic scope for the project. We can explore the client’s vision for the project, its feasibility within the time and resources that we have, make a rough estimate of cost and time complete the project, and decide whether or not we can move ahead with the project. This is an essential step in any project. Note that we are not trying to completely define the client’s needs (requirements) or the solution. This will evolve as we move forward with the project.

The **Supplemental Specification** and the **Glossary** support the Vision. The focus of the vision is primarily on functional requirements (the features seen by the user). The Supplemental Specification captures the “URPS+” non-functional requirements: Usability, Reliability, Performance, Supportability and any others (such as legal issues). The Glossary defines critical terminology, and can sometimes document the format of data.

This is a team assignment to work with the client to create a common vision and scope for the class project, and to create the initial product backlog. This will help assure that your project is a success and meets the needs of the client. Note that these are “living documents” and will evolve as the project progresses.

Please note that the audience for the Vision, Supplemental Specification and Glossary includes the software engineers on your team and the client. This means that these documents should be written so that the client can easily understand them (don’t overuse technical jargon or acronyms, for example).

**What I want You To Learn**

* Communicate with a client to elicit the vision and scope of the project
* Discover the problem to be solved, the key stakeholders, and the key goals for the project
* Work with your team to create a list of key features to address the client’s vision
* Write concise documents summarizing the project vision, supplemental specification, and glossary. The client must agree with the vision, so the document should be accessible to the client as well as your team members (and potential future team members)
* Create the initial product backlog by creating use cases and storyboards

**Early Deliverables**

Vision Outline [due 9/28]

Revision History

Introduction

Positioning

Problem Statement or Opportunity

Key stakeholders

Key goals for the users of the product

Product Overview

Solution envisioned

A single storyboard

Summary of key features

List key features

Supplemental Specification Outline (requirements elicitation) [due 10/05]

Revision History

Introduction

Other “URPS+” requirements - possibilities are: functions common across all modules, usability, reliability, supportability, interfaces, legal issues (ownership, copyright, fees, etc)

Glossary Outline [due 10/12]

Revision history

Definitions: Term, definition (could be customized to account for person markings)

Rapid Prototype [due 10/12]  
Addresses the single storyboard (not supplemental specifications)

Use Case Stories / Storyboards / Product Backlog [due 10/19]

Diagram your use cases in UML and create a storyboard for each use case.  
Estimate relative effort (story points). Try to breakdown the stories into sub-stories or tasks to be used for sprint planning.

**Team Responsibilities**

* **Scrum Master:** Be sure team members know their assignments to produce the deliverables; Submit your status report
* **Product Owner(s):** Be sure team members submit all code to GitHub and make sure the product is built regularly and tested regularly, communicate with client; Submit your status report
* **Product Deliverable Owner(s):** Collect and submit Vision, SS, and Glossary, Rapid Prototype, Use Cases, Storyboards, and Product Backlog to GitHub and Sakai; Submit your status report
* **Scrum Review Owner:** Plan scrum reviews for class, presentations to client on progress; Submit your status report

**Criteria for assignment**

1. All sections (see outline above) of the Vision are present
2. All sections of the Supplemental Specification and Glossary (see outlines above) are present
3. Vision: The revision history, introduction, positioning, product overview and key features are identified that demonstrates awareness of the client’s needs and vision.
4. Supplemental Specification: The revision history and additional URPS+ requirements are identified and demonstrate an awareness of non-functional requirements.
5. Glossary: The revision history and key terminology is defined.
6. Rapid Prototype: The product overview storyboard is implemented.
7. Use Cases, Storyboards, and product backlog are submitted to Sakai.
8. Stories clearly identify actors and actions/interactions between actors and the product.
9. The actions/interactions demonstrate an understanding of the client’s needs and vision.
10. The documents are appropriate for the client (should not contain excessive technical jargon, etc) and co-workers

**Rubric**

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| Criteria | Done Well | Needs Improvement |
| All sections of the Vision Document are present | All major sections, including revision history and subsections are included | Missing one or more sections |
| All sections of the Supplemental Specification are present and non-functional requirements are identified | Revision history, introduction, and non-functional requirements are identified | Missing one or more sections, or non-functional requirements need better identification |
| All sections of the Glossary are present and identifies language to be addressed | Revision history and definitions of terms to be covered are complete | Missing one or more sections, or missing language terms or definitions |
| In the Vision, the positioning, product overview and key features demonstrates awareness of the client’s needs | Positioning, overview, and key features are persuasively described indicating that you understand the client’s needs and vision | One or more sections need to be better developed to convince the client that we understand their needs and vision |
| Use cases and Storyboards in Sakai document the actors and interactions with the product | Use cases and Storyboards in Sakai clearly identify actors and interactions with the system will persuade the client that the product will meet their needs | Use cases and Storyboards in Sakai need to be better developed to convince the client that the product will meet their needs |
| The document is written appropriately for the client and co-workers | Language and background information are understandable by the client and by other engineering team members | Document could be more appropriate for the client and co-workers |

Note: Writing assignments must be grammatically correct, have complete sentences, and correct spelling. Poorly written papers, or papers submitted late are not graded.