*[Provide a short overview of your project to entice readers to read your project portfolio]*

*[Team Name]*

Project Portfolio

*[Portfolio Due Date]*

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[Project portfolio template directives and placeholders (delineated by “[ ]” or “< >” and/or highlighted or optional sections not included) should be removed from the document prior to submission. Empty sections for inclusion in later submissions may remain in the document for early submissions.]

[IMPORTANT: All diagrams developed using Enterprise Architectures must include the following acknowledgement: “Thanks to SPARX Systems for LSU student and faculty use of Enterprise Architect for academic purposes”.]

# Introduction <Milestone #1: Proposal>

[*Provide a 1-2 paragraph description of the problem and proposed solution. You will want to include the technologies that are incorporated within your project design and implementation plan*.]

[*Include a figure that includes the logos of the technologies that your project employs*.]

Core Features:

* [Feature 1]
* [Feature 2]
* [etc.]

Viable Features:

* [Feature 1]
* [Feature 2]
* [etc.]

Stretch Features [optional]

* [Feature 1]
* [Feature 2]
* [etc.]

# The [Team Name] Team < Milestone #1: Proposal >

[*Provide the team structure. This should include the team member name, role(s), and responsibilities. If team members have different roles/responsibilities for different project milestones, these should be listed by milestone*. *This section should be provided during the Proposal phase, but it should be updated as roles change for different milestones. The team GitHub link should be included in this section.*]

# System Requirements < Milestone #1: Proposal >

## Requirements [optional]

[*A list of system requirements. This should include, at a minimum, the requirements imposed by the class project*.]

## Epics [optional]

[*A list of system epics. Epics are similar to user stories, but they are more broad; epics cannot be completed in a single sprint. Epics follow the same format as user stories.*]

### Epic #1

[*Epic Statement, using the following format:*

*As a \_\_\_\_\_\_\_\_\_\_, I want to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, so I can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(optional).*]

## User Stories

[*A list of 1-2 user stories; additional user stories are optional.* ]

### User Story #1

[*User Story Statement, using the following format:*

*As a \_\_\_\_\_\_\_\_\_\_, I want to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, so I can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(optional).*]

# Project Management

## Continuity of Operations Plan (COOP) < Milestone #1: Proposal >

[*The team should discuss how they plan on communicating and coordinating their efforts. This should include a contingency plan in case one or more team member is unable to meet in-person (e.g., COVID-19 quarantine) or suddenly becomes unavailable (temporarily, such as illness or injury, or permanently, such as dropping the class). The Continuity of Operations Plan is a paragraph or two capturing this discussion.*]

## Project Plan

### System Architecture Design and Development < Milestone #1: Proposal & Milestone 2: Architecture>

[Milestone 1 (Proposal): The Project Plan WBS provides a list of activities/tasks to be undertaken to complete Milestone 2 (Architecture). The WBS activity chart should include task dependencies, estimated level of effort, and expected start and completion dates.

Milestone 2 (Architecture): The WBS activity chart for the milestone should be updated to include actual level of effort and start and completion dates.]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Activity** | **Pre #** | **Estimated**  **Effort** | **Actual**  **Effort** | **Estimated**  **Start Date** | **Estimated**  **Finish Date** | **Actual**  **Start Date** | **Actual**  **Finish Date** |
|  |  |  |  |  |  |  |  |  |

### System Implementation <Milestone 2: Architecture & Milestone 3: System Implementation>

[Milestone 2 (Architecture): The Project Plan WBS provides a list of activities/tasks to be undertaken to complete Milestone 3 (System Implementation). The WBS activity chart should include task dependencies, estimated level of effort, and expected start and completion dates.

Milestone 3 (System Implementatin): The WBS activity chart for the milestone should be updated to include actual level of effort and start and completion dates.]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Activity** | **Pre #** | **Estimated**  **Effort** | **Actual**  **Effort** | **Estimated**  **Start Date** | **Estimated**  **Finish Date** | **Actual**  **Start Date** | **Actual**  **Finish Date** |
|  |  |  |  |  |  |  |  |  |

## Project Postmortem <Postmortem>

### Project Wins

[Provide a bulleted list of at least 3 positive aspects of the project.]

### Root Cause Analysis

[Provide a bulleted list of at least 3 negative aspects of the project. For each negative, provide the answer to the three successive “Why” questions. ]

### Lessons Learned

[For each negative aspect identified in the Root Cause Analysis, provide a mitigation strategy (i.e., what process should be introduced) to ensure that the problem is not repeated in subsequent projects.]

# System Design

[*Include a short (1-2 sentences) statement about system design*.]

## System Architecture <Milestone #2: System Architecture>

[*A short description of the system architecture.*]

### Component Design

[*Insert image of system architecture component diagram.*]

[*Architecture overview, to include user I/O, external data sources, and major system components.*]

### Data Flow

[*Insert image of system architecture data flow diagram.*]

[*Architecture data flow discussion: a high-level description of the data between both internal major components and external data sources.*]

## System Components <Milestone 3: System Implementation>

[*Include a component sub-section for each component in the architecture diagram. Each component subsection will include a class diagram*]

### Component [Component Name 1]

[*A short description of the component*.]

[*An EA class diagram of the component that includes method parameters.*]

### Component [Component Name 2]

[*A short description of the component*.]

[*An EA class diagram of the component that includes method parameters.*]

### Component [Component Name n]

[*A short description of the component*.]

[*An EA class diagram of the component that includes method parameters.*]

## Design Pattern <Milestone 3: System Implementation>

[*Class diagram of design pattern incorporated into the project. Pattern must be specific to the project and not a general design pattern class diagram. The project must include at least 2 design patterns covered in class.*]

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