

Project Title

Sprint Number

Date

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CS 396

Fall 2024

Project Technical Documentation

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1 Introduction

1.1 Project Overview

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1.2 Project Scope

Text goes here.

1.3 Technical Requirements

1.3.1 Functional Requirements

Mandatory Functional Requirements
Req 1
Req 2
Req 3
Extended Functional Requirements
Ext. Req 1
Ext. Req 2
Ext. Req 3

Text goes here.

1.3.2 Non-Functional Requirements

Mandatory Non-Functional Requirements
Req 1
Req 2
Req 3
Extended Non-Functional Requirements
Ext. Req 1
Ext. Req 2
Ext. Req 3

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2 Project Modeling and Design

2.1 System Architecture

2.2 Defined Microservices

2.3 Development Considerations

3 Implementation Approach

3.1 Software Process Model

3.2 Key Algorithms and Techniques Used

3.3 Microservices and Docker Usage

3.4 Container Network Communication Setup and Testing

3.5 Infrastructure as Code approach

4 Software Testing and Results

4.1 Software Testing with Visualized Results

Test Plan Identifier:

Introduction:

Test item:

Features to test/not to test:

Approach:

Test deliverables:

Item pass/fail criteria:

Environmental needs:

Responsibilities:

Staffing and training needs:

Schedule:

Risks and Mitigation:

Approvals:

5 Conclusion

Text goes here.

6 Appendix

6.1 Software Product Build Instructions

Text goes here.

6.2 Software Product User Guide

Text goes here.

6.3 Source Code with Comments

Text goes here.