Software Requirements Specification for ProgName: subtitle describing software

Team #, Team Name

Student 1 name

Student 2 name

Student 3 name

Student 4 name

October 2, 2024

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Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

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1.1 User Business

Insert your content here.

1.2 Goals of the Project

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2 Stakeholders

2.1 Client

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2.4 Hands-On Users of the Project

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2.5 Personas

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2.6 Priorities Assigned to Users

2.7 User Participation

Insert your content here.

2.8 Maintenance Users and Service Technicians

Insert your content here.

3 Mandated Constraints

3.1 Solution Constraints

Insert your content here.

3.2 Implementation Environment of the Current System

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6.4 Specifying a Business Use Case (BUC)

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7 Business Data Model and Data Dictionary

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7.2 Data Dictionary

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8.2 Product Use Case Table

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9 Functional Requirements

9.1 Functional Requirements

10 Look and Feel Requirements

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12 Performance Requirements

12.1 Speed and Latency Requirements

12.2 Safety-Critical Requirements

Insert your content here.

12.3 Precision or Accuracy Requirements

Insert your content here.

12.4 Robustness or Fault-Tolerance Requirements

Insert your content here.

12.5 Capacity Requirements

Insert your content here.

12.6 Scalability or Extensibility Requirements

Insert your content here.

12.7 Longevity Requirements

Insert your content here.

13 Operational and Environmental Requirements

13.1 Expected Physical Environment

Insert your content here.

13.2 Wider Environment Requirements

13.3 Requirements for Interfacing with Adjacent Systems

Insert your content here.

13.4 Productization Requirements

Insert your content here.

13.5 Release Requirements

Insert your content here.

14 Maintainability and Support Requirements

14.1 Maintenance Requirements

- MS-MTN1. A deployment of the system should take no more than 30 minutes (not including testing, and building time)
- MS-MTN2. The build time of the system should be no longer than 10 minutes (no including testing time)
- MS-MTN3. All automated tests should be able to run in under 10 minutes
- MS-MTN4. The system should have rigourous unit testing, line coverage should be $\xi = 95\%$, branch coverage should be $\xi = 90\%$
- MS-MTN5. All core functionalities of the system (i.e. Functional Requirements), should have both automated end-to-end and unit testing corresponding to them
- MS-MTN6. The project must be able to be maintained by its users, as original developers will not be maintaining it after April 2, 2025

14.2 Supportability Requirements

MS-SUP1. The application should have user facing documentation on how to use the core functionalities of the system (i.e. functionalities described in functional requirements)

- MS-SUP2. The application should have documentation for all API's for future maintainers
- MS-SUP3. The application should have documentation of internal functions and abstraction for future maintainers
- MS-SUP4. The application should have documentation on deployment, so users can deploy this application for themselves

14.3 Adaptability Requirements

- MS-ADP1. The application must be able to run on at least Google Chrome
- MS-ADP2. The application must be able to run on tablets, smartphones, and laptops
- MS-ADP3. The application must be able to run on Android, IOS, and Windows 10

15 Security Requirements

15.1 Access Requirements

Insert your content here.

15.2 Integrity Requirements

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15.3 Privacy Requirements

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23 Costs

Insert your content here.

24 User Documentation and Training

24.1 User Documentation Requirements

Insert your content here.

24.2 Training Requirements

Insert your content here.

25 Waiting Room

Insert your content here.

26 Ideas for Solution

Appendix — Reflection

The information in this section will be used to evaluate the team members on the graduate attribute of Lifelong Learning. Please answer the following questions:

- 1. What knowledge and skills will the team collectively need to acquire to successfully complete this capstone project? Examples of possible knowledge to acquire include domain specific knowledge from the domain of your application, or software engineering knowledge, mechatronics knowledge or computer science knowledge. Skills may be related to technology, or writing, or presentation, or team management, etc. You should look to identify at least one item for each team member.
- 2. For each of the knowledge areas and skills identified in the previous question, what are at least two approaches to acquiring the knowledge or mastering the skill? Of the identified approaches, which will each team member pursue, and why did they make this choice?