

Software Requirements Specification for Software Engineering: Document Management System

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Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

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13.3 Requirements for Interfacing with Adjacent Systems

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13.4 Productization Requirements

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13.5 Release Requirements

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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 (not including testing time).

MS-MTN3. All automated tests should be able to run in under 10 minutes

MS-MTN4. The system should have rigorous unit testing, line coverage should be $\geq 95\%$, branch coverage should be $\geq 90\%$.

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 abstractions 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 and Microsoft Edge browsers.

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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17.2 Standards Compliance Requirements

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18 Open Issues

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19 Off-the-Shelf Solutions

19.1 Ready-Made Products

Currently there exist many document management systems (i.e. Google Docs, Sharepoint). However, They miss some of the clients major requirements. The city wants to be able to integrate with their work order management system to show the status of a work order that is associated with any given document, but existing solutions do not provide this capability. They also want to be able to verify that people were at a given site, when completing work, which again there isn't a ready made product to do.

19.2 Reusable Components

We can use Sharepoint as file storage, since the city wants Sharepoint and this system to be in sync, and storing the files in two seperate locations and then syncing them will introduce a lot of overhead. Instead, all files can just be stored on Sharepoint.

19.3 Products That Can Be Copied

N/A

20 New Problems

20.1 Effects on the Current Environment

Insert your content here.

20.2 Effects on the Installed Systems

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20.3 Potential User Problems

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25 Waiting Room

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26 Ideas for Solution

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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?