
Christmas Lights Animation

Requirements and Research Document (Concept of Operations)

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Revision History

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1.0 Overview

The overview should take the form of an executive summary. Give the reader a feel for the purpose of the document, what is contained in the document, and an idea of the purpose for the system or product.

1.1 Scope

What scope does this document cover? This document would contain stakeholder information, initial user stories, requirements, proof of concept results, and various research task results.

1.2 Purpose of the System

What is the purpose of the system or product?

2.0 Stakeholder Information

This section would provide the basic description of all of the stakeholders for the project. Who has an interest in the successful and/or unsuccessful completion of this project?

2.1 Customer or End User (Product Owner)

Who? What role will they play in the project? Will this person or group manage and prioritize the product backlog? Who will they interact with on the team to drive product backlog priorities if not done directly?

2.2 Management or Instructor (Scrum Master)

Who? What role will they play in the project? Will the Scrum Master drive the Sprint Meetings?

2.3 Investors

Are there any? Who? What role will they play?

2.4 Developers | Testers

Who? Is there a defined project manager, developer, tester, designer, architect, etc.?

3.0 Business Need

Use this section to define what business need exist and how this software will meet and/or exceed that business need.

4.0 Requirements and Design Constraints

Use this section to discuss what requirements exist that deal with meeting the business need. These requirements might equate to design constraints which can take the form of system, network, and/or user constraints. Examples: Windows Server only, iOS only, slow network constraints, or no offline, local storage capabilities.

4.1 System Requirements

What are they? How will they impact the potential design? Are there alternatives?

4.2 Network Requirements

What are they?

4.3 Development Environment Requirements

What are they? Is the system supposed to be cross-platform?

4.4 Project Management Methodology

The stakeholders might restrict how the project implementation will be managed. There may be constraints on when design meetings will take place. There might be restrictions on how often progress reports need to be provided and to whom.

What system will be used to keep track of the backlogs and sprint status?

Will all parties have access to the Sprint and Product Backlogs?

How many Sprints will encompass this particular project?

How long are the Sprint Cycles?

Are there restrictions on source control?

5.0 User Stories

This section can really be seen as the guts of the document. This section should be the result of discussions with the stakeholders with regard to the actual functional requirements of the software. It is the user stories that will be used in the work breakdown structure to build tasks to fill the product backlog for implementation through the sprints.

This section should contain sub-sections to define and potentially provide a breakdown of larger user stories into smaller user stories.

5.1 User Story #1

User story #1 discussed.

5.1.1 User Story #1 Breakdown

Does the first user story need some division into smaller, consumable parts by the reader? This does not need to go to the level of actual task definition and may not be required.

5.2 User Story #2

User story #2 discussed.

5.3 User Story #3

User story #3 discussed.

6.0 Research or Proof of Concept Results

This section is reserved for the discussion centered on any research that needed to take place before full system design. The research efforts may have led to the need to actually provide a proof of concept for approval by the stakeholders. The proof of concept might even go to the extent of a user interface design or mockups.

Appendix I: Supporting Material

This document might contain references or supporting material which should be documented and discussed in appendices. This material may have been provided by the stakeholders or it may be material garnered from research tasks.