Software requirement specification (SRS) document template



Review history



Approval history

Project name: Date: Version:

By: Leo Projceski



Revision history

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1

Introduction

Describe the purpose of the document.

The purpose of this document is to provide an in-depth overview of the Intelligent Navigation Device (IND) prototype.

* 1. Product scope

List the benefits, objectives, and goals of the product.

The objective of the Intelligent Navigation Device (IND) is to successfully solve a maze without colliding into any obstacles. The benefits of having an IND Prototype include safe navigation in industrial settings, precision maneuvering in complex environments with a high frequency of directional changes. The overall goal of the IND is to successfully complete set tasks in a given environment.

* 1. Product value

Describe how the audience will find value in the product.

The target audience will be sure to find immense value in the product due to its versatile usage opportunities. The IND Prototype can be applied to many factory settings to automize everyday tasks such as moving equipment, navigating isles, etc.

* 1. Intended audience

Write who the product is intended to serve.

The target audience are owners of industrial factory settings which would benefit from being able to automate processes in their factories.

* 1. Intended use

Describe how will the intended audience use this product.

The IND Prototype is intended to be used to automate factory related processes such as material handling, isle navigation and moving equipment among others.

* 1. General description

Give a summary of the functions the software would perform and the features to be included.

# Functional requirements



2

List the design requirements, graphics requirements, operating system requirements, and constraints of the product.

External interface requirements



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* 1. User interface requirements

Describe the logic behind the interactions between

the users and the software (screen layouts, style guides, etc).

* 1. Hardware interface requirements

List the supported devices the software is intended

to run on, the network requirements, and the communication protocols to be used.

* 1. Software interface requirements

Include the connections between your product and other software components, including frontend/backend framework, libraries, etc.

* 1. Communication interface requirements

List any requirements for the communication programs your product will use, like emails or embedded forms.

# Non-functional requirements



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* 1. Security

Include any privacy and data protection regulations that should be adhered to.

* 1. Capacity

Describe the current and future storage needs of your software.

* 1. Compatibility

List the minimum hardware requirements for your software.

* 1. Reliability

Calculate what the critical failure time of your product would be under normal usage.

* 1. Scalability

Calculate the highest workloads under which your software will still perform as expected.

* 1. Maintainability

Describe how continuous integration should be used to deploy features and bug fixes quickly.

* 1. Usability

Describe how easy it should be for end-users to use your software.

* 1. Other

List any additional non-functional requirements.

Definitions and acronyms



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