Software requirement specification (SRS) document template



Review history



Approval history

Project name: Date: Version:

By: Kevin Tran



Revision history

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1

Introduction

Describe the purpose of the document.

* 1. Product scope

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

The main objective of my robot is to navigate a maze successfully and provide a basic UI while doing so, which will inform users of its current state. It is designed to be used in an industrial environment, navigating a warehouse without colliding into any obstacles.

* 1. Product value

Describe how the audience will find value in the product.

The value of the robot will come in the automation of repetitive tasks such as stocking a warehouse and the ease of programming and use which will be

* 1. Intended audience

Write who the product is intended to serve.

* 1. Intended use

Describe how will the intended audience use this product.

* 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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