Software Requirements Specification

Introduced By: SE2018G09

First edition

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# 1. Introduction

## 1.1. Executive Summary

This software system will be a Web Software which will offer a punch of great a lot of things, so lets now be more specified and knows more details on our project

Simply our project is an electronic website in which you can find and read everything and latest news in electronic devices, also the user is allowed to Sign up on our website to receive notifications about the latest news and updates, also if he wants to make a favorite list, he can do that and save it on his email in our website, also the user can compare between two different devices so if he wants to knows which of them is better than the other to buy it or just for knowledge we will make him able to do so, our website should provide something like tips to help the user using different devices, and if he wants to know some information about that device on our website.

## 1.2. Document Overview

The next section of this document will talk about System description and goes in details about the user interface and the system and modules, after that we will held each point in the system description and talk briefly on it to understand it well, And we will start with System users in which we will talk about user description in detail and understand everything in it, then we will talk about our second point which is System modules which we will held Module description in it and talk briefly about it.

The third section we will talk about is system functions which have punch of points inside it

Then we will talk about System models and talk about two different things:

1- case diagram 2- sequence diagram

Then we will move on to the Non-functional Requirements in which we have a lot of things inside it which we will discuss in detail, it contains all the requirements needed in our system illustrated Like:

1- Security 2- usability 3- Performance …etc

For sure we all knows the importance of those requirements and how we need those things being applied on our website to make it more flexible

Another section we will discuss in that document Is the Domain requirements which is very important for any developer to understand what is needed in that website

Then the last section we will discuss is System interface which includes different interfaces like:

1- Communication interfaces 2- Hardware interfaces if required And any other interface required in the project

# System Description

## Introduction

Provide detailed system description.

Use block or context diagram to illustrate the system architecture.

## Users

Provide a list of system users with brief explanations.

## Modules

Provide a list modules with brief explanations.

# 

# System Users

## User Description

Provide user role description in details.

# 

# System Modules

## Module Description

Provide module description.

Use block or context diagram to illustrate external and sub-modules.

Use activity diagram, state machine diagram, data flow diagrams to illustrate module operations.

# System Functions

## [FR\_M] Module Functions

### [FR\_M\_N] Module Function

**Description**: Provide function description.

**Inputs**: Provide function inputs.

**Outputs**: Provide function description.

**Pre-conditions**: Provide function required conditions to work.

**Post-conditions**: Provide new conditions after work.

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**Post-conditions**: Provide new conditions after work.

# System Models

<Make only mandatory diagram to illustrate overall system interaction or to explain complex scenarios>

## Use Case Diagrams

Show use case diagram.

Provide brief explanation of the diagram.

## Sequence Diagrams

Show sequence diagram.

Provide brief explanation of the diagram.

# Non-Functional Requirements

## [2.1] <Security> Requirements

### [2.1.1] <Security> Requirement

The system must be secure in storing passwords in Database, so Hashing the Passwords is required.

## [2.2] <Usability> Requirements

### [2.2.1] <Usability> Requirement

System should be usable for all kind of people to make Shopping easier to them , so Items should be viewed in organized way. Also You must make comparing between items very clear to the visitor.

## [2.3] <Performance> Requirements

### [2.3.1] <Performance> Requirement

You should treat with the load on the website to make the server always working and avoiding the server dropping . It is expected that the number of visitors will be average in the range :

(1500-3000)visitor daily .

## [2.4] <Technology> Requirements

### [2.4.1]< Technology> Requirements

The customer wants this website to performed in python – Django , so you need to setup an IDE for python and Supports Django .

### [2.4.2]<IDE>Requirements

We suggests to work by Pycharm IDE . It’s an excellent IDE having a lot of features and easy to use .

### [2.4.3]<Python>Environment

You also need to setup Python environment on your Computer ,so we suggests Python 3.7.

It is the latest version until now.

### [2.4.4]<Deployment>Requirement

Also you need website for your deployment to deploy your python – Django website. We suggests pythonanywhere as Deployment way for python.

## [2.5] <Development> Requirements

### [2.5.1]<Development > Language

You should be aware of Python language to do this website.

### [2.5.2]<Web Development>Framework

You must learn how to use Django to make this website , so choose any source and learn quickly .

## [2.6] <Delivery> Requirements

This project must be delivered before the end of January.

Deliver it by include the source code of all the Phases of this project.

# Domain Requirements

## [DR\_X] <Domain> Requirements

### [DR\_X\_Y] <domain> Requirement

Explain <domain> requirement or constrain.

# System Interfaces

## User Interfaces

### Module Screens

List of module screens.

## Communication Interfaces

## Hardware Interfaces

## Other Interfaces