Software Requirements Specification

for

Computer Manufacturing Company

Version 1.0 approved

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1. Introduction

1.1 Purpose

The purpose of this computer company to have a quality check on the products which are getting manufactured. If there are any faulty components then error should be logged by quality assurance engineer. Trouble shooter replace the components and register this thing in system.

1.2 Product Scope

With trouble shooter the company will able to replace the components with are faulty or rejected by the quality assurance engineer and provided the best system to its customer result into good customer relation and developing a good brand name.

2. Description

2.1 Product Perspective

The product will check for the systems which are assembled and got rejected by the their default function or not matched to the standards to which it was expected to work by quality assurance engineer and list will be maintained for parts that were replace to match the functioning

2.2 Product Functions

Malfunctioning and Rejection
1. The products which are assembled will be checked for its functioning
2. If the product doesn't match the standard gets rejected
3. If there is some malfunctioning of the product got assembled then get rejected
4. Rejected products will be checked and trouble shooter will replace the components
5. Actions taken will be registered in the system

2.3 User Classes and Characteristics

There are in total 3 classes
1. Assembler
*   It assembles the product which have 'n' number of combinations depending upon various hardware specification*
2. Quality Assurance Engineer
*   He is the one to sets the bench mark for the product to be function if a product not work in the desired way it gets rejected.*
3. Trouble Shooter
*   Products rejected by quality assurance engineer get corrected by the changing the parts which doesn't work properly and the action taken for replacement of components are registered in the system.*

2.4 Assumptions and Dependencies

The following assumptions are made
1. *During assembling of product assembly lines work properly without any failure*
2. *Employee having proper communication among themselves during working hours*

3. External Interface Requirements

3.1 User Interfaces

The user interface is required by the Quality Assurance Engineer for logging the systems which are not upto the benchmark.
1. *GUI*

3.2 Hardware Interfaces

1. *Bandwidth of the system so as to facilitate queries of multiple engineers at a given time.*
2. *A Broadband connection to request application and information form the server.*

3.3 Software Interfaces

1. *Oracle Database server.*
2. *Nginx Server for web hosting.*
3. *RedHat 8 Linux Operating System for all the Servers*

3.4 Communications Interfaces

1. *HTTPS / HTTP*

4. Functional Requirements

4.1 Product Functioning

The product which are assembled by the assembler will be checked by the quality assurance engineer in al aspects that whether the assembly of product is done correctly whether the product matches the bench mark test and so on.

4.2 Trouble Shooter

Trouble shooter is used to replace the part of the product which doesn't work properly or not matching the bench mark used by the quality assurance engineer for its evaluation.

4.3 Listing

When the products get rejected and send for re-assembling to the trouble shooter and list is created for the things getting replaced and this is stored in the system which can be used for analyses

5. Other Nonfunctional Requirements

5.1 Performance Requirements

This is the major concern where the administrator will able to check whether the assembler performance is good or not such as how many products are being rejected for not assembling the components properly.

5.2 Safety Requirements

While working in the assembly line the workers safety must been kept in mind.
The data stored in the company systems and server should not be compromised and access by outsider at any cost.

5.3 Security Requirements

Each of the employee will be given their login credentials which will be helpful for the company that no 3rd person can access the data and the employee can access the data which are only available for them and no internal data breaching should be done.

6. Other Requirements

Server to store the information related to complete assembling process.
Good connectivity between the different sub departments.