**Test plan**

**for**

**Coffeemaker**

Hanan Al-Deek

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1-introduction

* 1. Objectives

**Coffeemaker is a software application that uses java code to allow the user to insert number of services he want to do.**

**Coffeemaker is a software application is for Add a recipe ,Delete a recipe, Edit a recipe, Add inventory , Check inventory , Make coffee.**

**The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project .**

**The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.**

* 1. **Team members**

|  |  |
| --- | --- |
| **Resoures Name** | **Role** |
| **Hanan** | **Testing coffemaker** |

**2- Scope**

**All the feature of coffeemaker which were defined in software requirement specs are need to bested :**

**Add a recipe : create a new recipe , the user can choose a name of recipe , set recipe price ,determine the amount of coffe ,milk,suger and chocolate.**

**Delete a recipe : delete any recipe .**

**Edit recipe : also can edite the recipe .**

**Add inventory : add a unite of coffee, milk ,suger,chocolate and check if the inventory added successfully or not .**

**Make coffee : user allowed to select the recipe number he wants to buy and the price he wish to pay .**

**These feature are not be tested because they are not included in the software requirement specs**

* **User Interfaces**
* **Hardware Interfaces**
* **Software Interfaces**
* **Database logical**
* **Communications Interfaces**
* **Website Security and Performance**

3- Assumptions/Risks

3.1 Assumptions

* **Specifies the criteria that denote a successful completion of a test phase**
* **Run rate is mandatory to be 100% unless a clear reason is given.**
* **Pass rate is 80%, achieving the pass rate is mandatory**

**3.2 Risk**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| **Team member lack the required skills for software testing.** | **Plan training course to skill up your members** |
| **Wrong budget estimate and cost overruns** | **Establish the scope before beginning work, pay a lot of attention to project planning and constantly track and measure the progress** |
| **Test Manager has poor management skill** | **Plan leadership training** **for manager** |
| **delay in delivery of test items** | **increased night shift scheduling to meet the delivery date)** |
| **Non-availability of Independent Test environment and accessibility** | **Due to non availability of the environment, the schedule gets impacted and will lead to delayed start of Test execution.** |

**4-Approach**

**The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested.**

**4.1 Atumated testing**

**Automation Testing or Test Automation is a software testing technique that performs using special automated testing software tools to execute a test case suite.**

**Atumatied testing uses junit to validate and cover user request:**

* **Add a rescipe**
* **Delete a recipe**
* **Edit a recipe**
* **Add inventory**
* **Check inventory**
* **Make coffee**

**5- Test Environment**

**Database, operating system ,Hardware.**

**6-Test Tools**

**Eclipse IDE, JUnit library**

**7.1 Test schedule**

|  |  |
| --- | --- |
| **Task name** | **Effort** |
| Test planing | 2 day |
| Review requirement documents | 2 day |
| Create initial test estimate | 1 day |
| System testing | 8 day |
| **Create the test specification** | 6 day |
| **Perform Test Execution** | 3 day |
| **Test Delivery** | 1 day |

**7.2 Test Deliverables**

**Test deliverables are provided as below**

**Before testing phase**

* **Test plans.**
* **Test cases .**
* **Test Design specifications**.

**During the testing**

* **Test Tool Simulators.**
* **Test Data.**

**After the testing cycles is over**

* **Test Results/reports**
* **Defect Report**
* **Installation/ Test procedures guidelines**
* **Release notes**