**HOMEWORK LESSON 12**

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**Level 1 :**

[**https://angelikakr.testrail.io/index.php?/suites/view/4&group\_by=cases:section\_id&group\_order=asc&display\_deleted\_cases=0**](https://angelikakr.testrail.io/index.php?/suites/view/4&group_by=cases:section_id&group_order=asc&display_deleted_cases=0)

**Level 2 :**

[**https://angelikabr.atlassian.net/jira/software/projects/HL1/boards/4/backlog?selectedIssue=HL1-3**](https://angelikabr.atlassian.net/jira/software/projects/HL1/boards/4/backlog?selectedIssue=HL1-3)

**Level 3**

**CAT APP**

**Test Strategy**

**Revision History**

| Date | Version | Author | Description |
| --- | --- | --- | --- |
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# **1. Scope**

The scope of this Test Strategy will be limited to the test detailed in the table below. Reviewers of this document should be the stakeholders of the project who will also participate in the approval processTesting will cover the following areas and the precise details of each test within will be defined later in the test strategy.

| Unit Testing | Development created during feature design to ensure that each part of the code developed in a component delivers the desired output |
| --- | --- |
| Integration Testing | Development created during feature design to ensure that each part of the code developed in a component delivers the desired output |
| Functional Testing | Verify the functionality of operation |

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# **2. Test Approach**

**Test Objectives**

The objectives of the test strategy can be summarized in 3 simple points as shown below

DEFECTS: Finding and preventing defects which may get created by the programmer while developing the software.

QUALITY: Gaining confidence in and providing information about the level of quality.

CUSTOMERS: To make sure that the end result meets the business and user requirements.

**Test Methodology**

This test strategy will explain how we will achieve our objectives set out above within theCat Application while adhering to Agile Testing

We will cover different types of functional testing ithing this test strategy . The various levels of testing can be summarized as

level 1 unit tests

level 2 integration tests

level 3 functional tests

**Test Process**

For this project, we need to have a defined process towards testing. Testing which the test team undertake will composed primarily of manual testing

The high level process which user stories pass through is defined as the following:

* The feature is defined by PO
* Within a feature review session, it is broken down into stories
* The Story gets acceptance criteria
* The Story passes into refinement to be story pointed
* It is then added to sprint backlog
* In Sprint Planning, the QA team creates tasks for stories
* QA then writes test cases which are peer reviewed within QA
* QA executes the test cases

Generally, the process for testing a user story once it has been declared "Done" by development will involve the following steps:

1. QA Review the AC on the story
2. Based on the AC, QA will create manual test cases (either through the feature file or otherwise). There should also be some creative test cases which moves outside the AC.
3. QA will execute the manual tests on the deployed instance.

**Roles and responsibilities**

Integration Testing

* Owners

*Test Team* consisting of any additional team members where available.

* Implementation Approach

We will use integration testing to verify API calls using Postman

* Tools/Techniques

We will usePostman for API calls

Functional Testing

* Owners

*Test Team* consisting of any additional team members where available.

* Implementation Approach

We will use manual testing techniques

* Tools/Techniques

We will use Testrail, Jira

Unit Testing

* Owners

*Development team*

* Implementation Approach

We will use whitebox

Tools/Techniques

We will use development IDE

**3.** **Test Environment**

IOS : latest release

Browsers: Chrome, Safari

Set up required : install built on mobile device

Android: latest release

Browsers: Chrome, Safari

Set up required : install built on mobile device

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# **4.** **Testing Tools**

We will use test rail to manage the test case repository and test execution records

We will use jira to manage agile scrum process

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# **5.** **Release Control**

Initially our first release will be called v.1.0

Any future release will follow the form v.2.0, v.3.0 etc

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# **6.** **Risk Analysis**

The risks in this project would be the following

1. Build failure
2. Environment offline

In order to mitigate these risks we will have a regression plan and monitoring of an environment

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# **7.** **Review and Approvals**

| Version | Approvers |
| --- | --- |
| v.1.0 | Project Manager, Development team, QA |