



**EXPENSE**

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**TRACK**

***TEST PLAN***

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## VERSION HISTORY

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| Version | Date       | Remarks                         | Author       |
|---------|------------|---------------------------------|--------------|
| 1.0.1   | 01/01/2021 | Test plan create                | Oren S.Rauch |
| 1.0.2   | 08/01/2021 | Added required doc to test plan | Oren S.Rauch |
|         |            |                                 |              |

# 1. INTRODUCTION

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

The plan identifies 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.

## 1.1 OBJECTIVE OF THE TEST PLAN

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The test objectives are to **verify** the Functionality of website Expense Track, the project should focus on testing the **application operation** such as Add expense, visualize reports, and Expense reports...etc. to **guarantee** all this operation can work **normally** in real business environment.

## 2. TEST STRATEGY

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### 2.1 SCOPE OF TESTING

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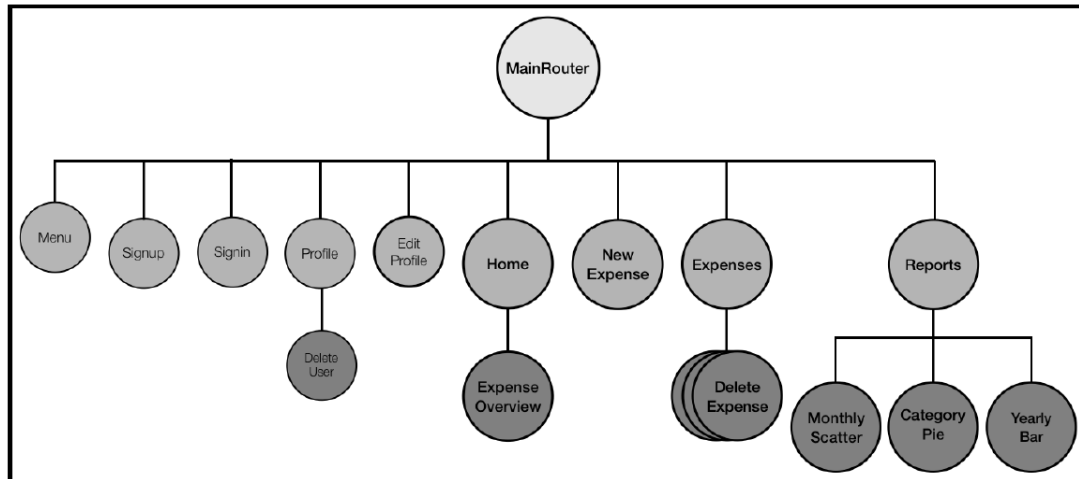
### 2.2 FEATURE TO BE TESTED

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All the feature of Expense Track application which were defined in software requirement specs need to be Tested, [SRS Document here](#)

| Module Name       | Applicable Roles | Description   |
|-------------------|------------------|---|
| Create New User   | User             | User can have the ability to Sign Up a new account.<br>He can view and edit only his account only.  |
| Edit User Account | User             | User can edit his account details.<br>User can DELTE his account.   |
| Add Expense       | User             | User can add new expense with expense content details.<br>User can EDIT his expenses details, name, amount, etc...                                      |
| Reports           | User             | User can view and query his expenses with visualized data.<br><br>Reports will present 3 visualized options, Monthly Scatter, Category Pie, Yearly Bar. |
| Expenses          | User             | User can view and edit all of his expense's history inputs.   |

### Feature structure Diagram



## 2.3 FEATURE NOT TO BE TESTED

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

- Database logical
- Website Security
- Hardware Interfaces

## 2.4 TEST TYPE

In the project Expense Track, there're 4 types of testing should be conducted.

- **Integration Testing** (Individual software modules are combined and tested as a group)
- **System Testing**: Conducted on a **complete, integrated** system to evaluate the system's compliance with its specified requirements
- **API testing**: Test all the APIs create for the software under test.
- **Performance Testing**:

## 2.5 RISK AND ISSUES

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## 2.6 TEST LOGISTICS

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### 2.6.1 WHO WILL TEST

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The project testing will be conducted by the Testing Team and Developers Team following the Agile model

### 2.6.2 WHEN WILL TEST OCCUR

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The tester will start the test execution when all the following inputs are ready

- Software is available for testing
- Test Plan child docs created (test cases, test scenarios, RTM, bug report)
- Test Environment is built
- Enough human resource for testing

## 3 TEST CRITERIA

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### 3.1 SUSPENSION CRITERIA

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- If the test team report that there are <**50%** of test cases **failed**, alert PM to suspend testing until the development team fixes all the failed cases.
- If the test team report that there are <**40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.
- Failed to conduct current phase required testing, require management meeting to gather human resource for testing support.

### 3.2 EXIT CRITERIA

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**Sprint exit criteria** 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 ~**85%**, achieving the pass rate is **mandatory**.
- **Coverage** rate is **100%**, achieving the pass rate is **mandatory**.

**Project exit criteria** as described in the **SDP** document, following the schedule of sprints deadlines and requirements as needed to give confidence in the project functionality and stability.



## 4 RESOURCE PLANNING

### 4.1 SYSTEM RESOURCE

| Req No. | Resources            | Description   |
|---------|----------------------|---|
| 1.      | Workstation          | Windows ^10, Ram 32GB, SSD 2GB dedicated  |
| 1.1     | Network              | Internet connection with the option to turn off anti-virus when needed.<br>Download speed at least 500 Mb/s<br>Upload speed at least 100 Mb/s |
| 2.      | Server               | Require dedicated running Database which install MongoDB compass  |
| 3.      | Test Management Tool | Jira with Xray plugin which sync with the project Github repo, all related excel documents  |
| 4.      | Automation Language  | Using JavaScript as main testing script language  |

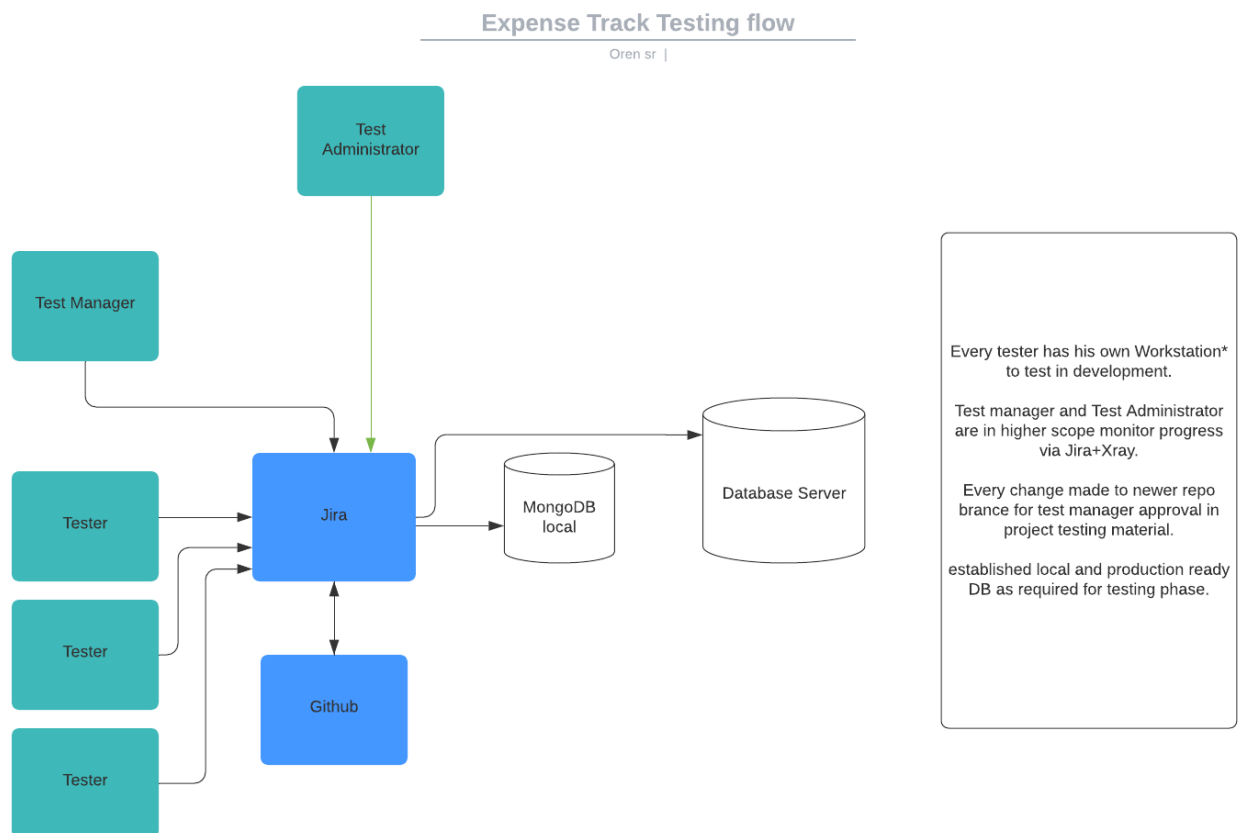
### 4.2 HUMAN RESOURCE

| No. | Position                  | Member                                 | Tasks  |
|-----|---------------------------|--|--|
| 1.  | Test Manager              | Employee A                             | Manage the whole project<br>Define project directions<br>Acquire appropriate resources   |
| 2.  | Tester                    | Employee B<br>Employee C<br>Employee D | Identifying and describing appropriate test techniques/tools/automation architecture<br>Verify and assess the Test Approach<br>Execute the tests, Log results, Report the defects.<br>Outsourced members |
| 2.  | Test Automation Developer | Employee C                             | Implement the test cases, test program, test suite etc.  |

|    |                           |                          |   |
|----|---------------------------|--------------------------|---|
| 3. | <b>Test Administrator</b> | Employee E               | Builds up and ensures test environment and assets are managed and maintained<br>Support Tester to use the test environment for test execution |
| 4. | <b>QA Tester</b>          | Employee D<br>Employee F | Take in charge of quality assurance<br>Check to confirm whether the testing process is meeting specified requirements                         |

## 5 TEST ENVIRONMENT

The Test Environment should be setup as figure below



## Expense Track

*Test Plan*

