

TEST PLAN

<<Example HR>>

Abstract

This document provides an overview of the project and the product test strategy, a list of

testing deliverables and plan for development

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**VERSION HISTORY**

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# INTRODUCTION

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Guru99 Bank.

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.

# TEST STRATEGY

## Test Identifier

| **Items** | **Links** |
| --- | --- |
| PRD |  |
| Spec |  |
| Customer Needs |  |

## Scope of Testing

* + 1. **Feature to be tested**

All the feature of Example HR website which were defined :

| **Module Name** | **Applicable Roles** | **Description** |
| --- | --- | --- |
| **Leave Request** | Manager  Staff | **Manager:** A manager can view any request from staff who under his supervision and can approve it  **Staff:** A staff only can send request to the direct manager |
| **Performance Review** | Manager Customer | **Manager:** A manager can view and update all performance review from staff who under his supervision  **Staff:** A staff can only see and update their own performance review |

## Feature not to be tested

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

* + - * Hardware Interfaces
      * Software Interfaces
      * Database logical
      * Communications Interfaces
      * Website Security and Performance

## Test Type

In the project Example HR Website, there are 3 types of testing that 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 tested

## Risk and Issues

| **Risk** | **Mitigation** |
| --- | --- |
| **Team members lack the required skills for website testing.** | Plan **training course** to skill up your members |
| **The project schedule is too tight; it's hard to complete this project on time** | Set **Test Priority** for each of the test activities. |
| **Test Manager has poor management skill** | Plan leadership training for manager |
| **A lack of cooperation negatively affects your employees' productivity** | **Encourage** each team member in his task, **and inspire** them to greater efforts. |
| **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 Logistics

## Who will test?

The project should use at least 4 testers to finish it ontime

## When will the test occur?

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

* Software is available for testing
* Test Specification is created
* Test Environment is built
* Enough human resource for testing

# TEST OBJECTIVE

The test objectives are to **verify** the Functionality of Example HR Website, the project should focus on testing the **HR operation** such as leave request, performance review, etc. to **guarantee** all these operations can work **normally** in a real business environment.

# TEST CRITERIA

## Suspension Criteria

If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

## 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 **80%,** achieving the pass rate is **mandatory**.

# RESOURCE PLANNING

## System Resource

## Human Resource

| **No.** | **Member** | **Tasks** |
| --- | --- | --- |
| **1.** | Test Manager | Manage the whole project Define project directions  Acquire appropriate resources |
| **2.** | Test | Identifying and describing appropriate test techniques/tools/automation architecture  Verify and assess the Test Approach  Execute the tests, Log results, Report the defects. Outsourced members |
| **3.** | Developer in Test | Implement the test cases, test program, test suite etc. |
| **4.** | Test Administrator | Builds up and ensures test environment and assets are managed and maintained  Support Tester to use the test environment for test execution |
| **5.** | SQA members | Take in charge of quality assurance  Check to confirm whether the testing process is meeting specified requirements |

# TEST ENVIRONMENT

The test will be executed based on this environment :

| **No.** | **Environment** | **Descriptions** |
| --- | --- | --- |
| **1** | Browsers | Chrome, Firefox, Internet Explorer |
| **2** | Device | Windows and Mac |

# SCHEDULE & ESTIMATION

## All project task and estimation

| **Task** | **Members** | **Estimate effort** |
| --- | --- | --- |
| **Create the test specification** | Test Designer | 170 man-hour |
| **Perform Test Execution** | Tester, Test Administrator | 80 man-hour |
| **Test Report** | Tester | 10 man-hour |
| **Test Delivery** |  | 20 man-hour |
| **Total** |  | **280 man-hour** |

## Schedule to complete these tasks

# TEST DELIVERABLES

Test deliverables are provided as below

## Before testing phase

* Test plans document.
* Test cases documents
* Test Design specifications.

## During the testing

* Test Tool
* Simulators.
* Test Data
* Test Trace-ability Matrix
* Error logs and execution logs.

## After the testing cycles is over

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

## Release notes