

Test Plan Report

Analyze the product

The purpose of this website is to provide job seekers to build their own resumes. This product will be created and run with MangoDB using the TypeScript language on top of the basic JavaScript front-end architecture.

Develop Test Strategy

- Define Scope of Testing
 1. "in scope"
 - a. Normal jump of front-end interface.
 - b. Normal implementation of each function.
 - c. The middleware is functioning properly.
 - d. Normal connection and reasonable data structure of the database.
 - e. Proper operation of the backend server.
 2. "out of scope."(Don't consider)
 - a. Site load.
 - b. Whether the function of the website is strong.
- Identify Testing Type

Unit Test	◦ Test the smallest piece of verifiable software in the application
API Testing	◦ Test the API 's created for the application
Integration Test	◦ Individual software modules are combined and tested as a group
System Test	◦ Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements
Install/uninstall Testing	◦ Focuses on what customers will need to do to install / uninstall and set up/remove the new software successfully
Agile Testing	◦ Testing the system using Agile methodology

We will be mainly responsible for **unit testing** and **API testing**. When the website is complete, we will carry out a system test on the whole system.

Unit testing is to test whether each method can run successfully.

API testing in order to test the performance of each page of this website.

- Document Risk & Issues

Risk	Mitigation
Team member 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 activity.
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

- Create Test Logistics

Every developer should unit test the feature once it's done. API testing when doing business with other developers. Record and conclusion are given after each test.

Test Criteria

- 1. Make sure that each function works successfully
- 2. Every test must be guaranteed to pass(at least p2).
- 3. Only if the test passes can we proceed to the next step

Test Evaluation

Test Metrics	emergency level
p0	This problem is very urgent and will affect the operation of the entire system. Need to be dealt with immediately.
p1	There will be problems that must be dealt with and need to be resolved within three days.
p2	The test problem does not affect normal use, but some components may have display problems.
pass	Pass all tests and meet the expected results.