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Project Name

Test Strategy

Revision History

DATE	AUTHOR	DESCRIPTION
08/09/2023	Priyanka Gorai	Test strategy for Deep Thought website Login

Table of Contents

- 1.Scope
- 2.Test Approach
- 3.Test Environment
- 4.Testing Type
- 5.Testing tools
6. Hardware- Software Configuration
7. Reporting

1. SCOPE

The testing will be performed on the Deep Thought web application which includes the following functionality:

- Login and User authentication

2. TEST APPROACH

The testing approach for the Deep Thought web application will include the following steps:

- **Test planning:** Reviewing the requirements and develop a test plan that outlines the testing scope, objectives, and timelines specific to the web application.
- **Test design:** Developing test cases and test scenarios based on the requirements. Test data will be identified, and test environments will be set up.
- **Test execution:** The test cases will be executed using manual and automated testing techniques. Along with, report and track defects, and retest fixed defects.
- **Test reporting:** Preparing test reports that summarize the testing progress, the number of defects, and the overall quality of the web application.

3. TESTING TYPE:

- **Functional testing:** This type of testing ensures that the application functions correctly according to the requirements. It includes the testing of user login and authentication.
- **Compatibility testing:** This type of testing checks if the web application functions correctly across different browsers.

4. TEST ENVIRONMENT

1. Set up a local NodeJS environment. Using a newer node version is recommended
2. Installation of TestCafe globally from NPM (Node package Manager).

5. TESTING TOOLS

- Test automation tools
- Test data management tools

6. HARDWARE - SOFTWARE CONFIGURATION

The testing will be conducted on the web application across the following hardware and software configurations :

- **Operating systems:** Windows
- **Browsers:** Chrome, Firefox, Edge

7. REPORTING

The testing team will prepare and provide the following reports for the web application:

- **Test Cases Execution Report:** Provides information on the execution of test cases, including:
 - Pass/fail status
 - Test case IDs
 - Associated defects or issues encountered during testing
- **Defect Report:** Contains details about the defects or issues discovered during testing, including:
 - Description
 - Severity
 - Priority
 - Steps to reproduce
 - Current status (open, resolved, closed)
- **Test Summary Report:** Offers an overview of the testing activities conducted, including:
 - Number of test cases executed
 - Pass/fail rates
 - Test coverage achieved
 - Overall assessment of the application's quality
- **Test Progress Report:** Tracks the progress of testing activities throughout the project, including:

- Planned versus actual test execution
 - Remaining work
 - Milestones achieved
 - Risks or issues encountered
- **Test Coverage Report:** Provides insights into the extent of testing coverage achieved, including:
 - Areas of the application tested
 - Types of testing performed
 - Gaps or areas requiring additional testing