Test Plan Identifier: TP\_001

Introduction

Test plan, a dynamic documentation that describe the testing scope and activities of a software. This document also includes the approach, resources and schedule of intended test activities. It identifies amongst others test items, the features to be tested, the testing tasks, who will do each task, degree of tester independence, the test environment, the test design techniques and entry and exit criteria to be used, and the rationale for their choice, and any risks requiring contingency planning. It is a record of the test planning process.

Project Summary

Ask-n-Know is a platform of gaining and shearing knowledge. It is a website where questions are asked, answered and voted. For asking question user should be signed up in the system providing her/his username, email and password and logged in providing the username and password that was given during being signed up. A registered user can ask, answer and vote the question as well as the answer for the question. Register user can also down vote for question and answer. General users can view the question list and question. They also can search question based on question title and category. Sorting the question list according to most voted, highest answered, unanswered, date is also allowed for the general user. All the facilities that the general users gets the registered users also get the same.

Test Item to be tested

Name: Ask-n-Know

Type: Web Application

Version: 1.0

Features to be tested

User Registration / Sign up

Logging in to the System

Logging out from the System

Viewing Question List

Searching Questions

Sorting Question List

Asking Question

Viewing Questions

Voting Questions

Voting Answers

Viewing User Profile

Features not to be tested

Account Recovery: In requirements there was no such requirements.

Email Verification was not the part of this testing plan

Approach

As Ask-n-Know is a website, XAMPP server will be used for testing it in localhost. To test the system properly current version of XAMPP 7.0 which supports PHP 7.0 is required for Windows operating system. Black Box testing will be used for testing each features those are divided into modules based on the functionalities. Robustness Testing will be used for preparing the test cases. The specifications that were acquired from the SRS will be used to specify test cases’ input.

Item Pass/Fail Criteria

As it was not enough time for developing the Ask-n-Know, it will be considered that if 85% of the prepared tested cases pass, then we can consider the project as a whole to pass. But Test cases of Asking Questions and Answering Questions must be passed otherwise, it will never be acceptable.

Suspension Criteria and Resumption Requirements

Suspension Criteria

Answering Questions

Voting Question

Resumption Requirements

Signing Up and logging in

Test Deliverables

Test plan: We have attached following points with the test plan:

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Project Summary

Test items to be tested

Features to be tested

Features not to be tested

Approach

Item Pass/Fail Criteria

Suspension Criteria and Resumption Requirements

Test Deliverables

Testing Tasks

Environmental Needs

Responsibilities

Staffing and Training Needs

Scheduling

Risks and Contingencies

Testing Costs

Approval

Testing Tasks

User Registration / Sign up: To check whether the user can sign up to the system providing username, email and password.

Logging in to the System: To check the authentication procedure works for logging in to the system using username and password.

Logging out from the System: To check that the user can log out from the system.

Viewing Question List: To test the viewing system of the question.

Searching Questions: To test question searching system with question title and category.

Sorting Question List: To test question sorting procedure.

Asking Question: To check if the general user as well as the registered user can ask question properly.

Viewing Questions: To check that all kinds of user can view all answer given to a question with the username of the provider of the answer.

Voting Questions: To check that only the registered user can up vote and down vote for questions properly.

Voting Answers: To check that only the registered user can up vote and down vote for answer properly.

Viewing User Profile: To check the user as well as other can view user profile properly or not.

Environmental Needs

Operating System: Windows 10, 8, 7

Web Server: XAMPP 7.0

Testing Tools: Selenium

IDE: Eclipse

Responsibilities

Our team consists of three members. So, all of us have high responsibilities in this project.

|  |  |
| --- | --- |
| Member | Responsibilities |
| Abdullah Al Jubayer | Preparing test cases for Authentication  Preparing test cases for Activity management  Preparing test plan |
| Atiq Ahammed | Preparing test cases for Question management  Preparing test cases for user management  Providing environmental need |
| S. M. Khayrul Islam | Preparing test cases for Notification  Executing test case  Preparing test plan |

Staffing and Training Needs

Ability to install XAMPP and experience to host website using XAMPP

Basic knowledge about website and web application

Experience of using Selenium and basic programming knowledge of using selenium

Scheduling

Time estimation to perform testing task:

|  |  |
| --- | --- |
| Test Task | Estimated time (day) |
| Defining team responsibilities | 1 |
| Defining test plan | 3 |
| Preparing test case | 5 |
| Executing test case | 1 |
| Preparing report | 2 |

Risks and Contingencies

For some risks of this project there are some changes and consequences in the plan:

Time shortage: There was lack of time to prepare the test plan and test case specifications.

Test case amount: The number of tests performed has been reduced.

Defect amount: The number of acceptable defects has been increased for less test case and limited scope.

Testing cost

Cost of planning and designing the tests of this project is very small since it is a small academic project.

Cost to support the environment: Since it is a web-based software, we need internet connection to support the environment. So, the cost to maintain internet connection in order to continue the testing.

Cost of executing the tests: We did not need any executing test cost.

Cost of recording and analyzing the test results: In the testing procedure, we have prepared a test case specification and also a test plan for this PGDIT Automation system. So, it requires a good amount of cost for preparing the document and delivering the document.

Approval

Nadia Nahar

Lecturer

Institute of Information Technology

University of Dhaka

Test design specification

|  |  |  |
| --- | --- | --- |
| Serial Number | Functionality | Test Case ID |
| 1 | Sign up | T0001, T0002, T0003, T0004, T0005, T0006 |
| 2 | Logging in to the System | T0007, T0008 |
| 3 | Logging out from the System | T0009 |
| 4 | Viewing Question List | T0010, T0011, T0012 |
| 5 | Searching Questions | T0013, T0014 |
| 6 | Sorting Question List | T0015, T0016 |
| 7 | Asking Question | T0017, T0018, T0019, T0020, T0021 |
| 8 | Viewing Questions | T0022, T0023 |
| 9 | Answering Questions | T0025, T0026, T0027 |
| 10 | Voting Questions | T0028, T0029 |
| 11 | Voting Answers | T0030, T0031 |
| 12 | Viewing User Profile | T0032, T0033 |