Ask – n - Know

Software Test Plan and Test Case Design

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| Ask-n-Know  Software Test Plan and Test Case Design Report |

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# Test Planning

## 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.

## Test Item to be Tested

**Name:** Ask-n-Know

**Type:** Web Application

**Version:** 1.0

## Brief Description of “Ask-n-Know”

Ask-n-Know is a platform of gaining and shearing knowledge. It is a website where questions are asked and answered edited, and organized by its community of users in the form of opinions.

**Main concerns of the project is:**

* Registration of Administrator
* Registration of General User
* Authentication of Administrator and Registered User
* Profile management
* Notification Management
* Asking Question
* Approving Question
* Searching Question
* Answering Question
* Up voting or down voting of the answer
* Managing question data

## Features to be Tested

The following features of the software will be tested:

1. Authentication:
2. Activity management:
3. Question management
4. User management
5. Notification

## Features not to be Tested

The following features of the software will not be tested:

1. Mailing system

## Testing 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.

## Test Deliverables

Our deliverable documents are:

1. **Test plan:** We have attached following points with the test plan:

* Introduction
* Test item to be tested
* Brief description of Ask-n-Know
* Features to be tested
* Features not to be tested
* Approach
* Item Pass and Fail Criteria
* Test deliverables
* Testing tasks
* Responsibilities
* Scheduling
* Risks and contingencies
* Testing costs

1. **Test case specifications:** We have attached 31 test cases within our project scope. A test case specification has:

* Test case Specification Identifier
* Purpose
* Special Environmental
* Special Procedural Requirements
* Inter-case Dependencies
* Input Specifications
* Test Procedure
* Output Specifications

## Testing Tasks

**Preparing and setting up system environment**: Before executing the test cases, there requires to prepare the server which will be a local XAMPP server with an associated database.

**Tasks for test case**: The features will be divided into five testing modules. Those are:

1. Testing Authentication: refers to Administrator and registered users’ registration, login and password reset process testing
2. Testing Activity management: refers to testing of searching question, sorting process of questions according to most voted, highest answer, lowest answer and date, and approving or ignoring question and request for being Administrator.
3. Testing Question management: refers to testing of adding question, answering question, updating question and voting questions.
4. Testing user management: refers to updating users’ information testing of registered user.
5. Testing notification: is the testing of notification to Administrator and registered user.

## 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 |

## 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.

# Test Case Designing

## Test Cases Design

There are five subsystem of “Ask-n-Know” system. All test cases are designed with the each subsystems’ module. The five sub systems are:

1. Authentication
2. Activity Management
3. Question Management
4. User Management
5. Notification

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Figure 1: Use case diagram - 1: Subsystems of Ask-n-Know

### Authentication Subsystem

|  |  |  |
| --- | --- | --- |
| Functionality | Use case in SRS | Test case ID |
| Login the system | 1.1.1 | T-0001, T-0002, T-0003, T-0004, T-0005 |
| User registration | 1.1 | T-0006, T-0007, T-0008, T-0008, T-0009, T-0010, T-0011 |
| Logout | 1.1.1 | T-0012 |
| Administration request | 1.1.2 | T-0013 |

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Figure 2: Use case diagram - 1.1: Authentication

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Figure 3: Use case diagram - 1.1.1: Authentication

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Figure 4: Use case diagram - 1.1.2: Authentication

#### Test Specification of Authentication

Table 1: Test specification of T-0001

|  |  |
| --- | --- |
| Test case specification identifier | T-0001 |
| Purpose | To check the functionality of ‘Login the system’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Enter email address in 50 characters as given below and password at least 6 character and at most 15 character in the respected field:  jubayer@yahoo.com asd123#  atiq\_123@gmail.com n\*124#17  smkolife@gmail.com sm0923tblk |
| Test procedures | Click on the ‘login button’ then insert credentials in the respected fields. |
| Output specifications | “Successfully logged in” message will be shown in a prompt. |

Table 2: Test specification of T-0002

|  |  |
| --- | --- |
| Test case specification identifier | T-0002 |
| Purpose | To check the functionality of ‘Login the system’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Enter email address in 50 characters as given below and password at least 6 character and at most 15 character in the respected field: (user not in database)  shamim@yahoo.com a5673#kl  tahmid5@gmail.com n\*124#17  olife7864@gmail.com sm092hguy |
| Test procedures | Click on the ‘login button’ then insert credentials in the respected fields. |
| Output specifications | “Wrong email or password” message will be shown in a prompt. |

Table 3: Test specification of T-0003

|  |  |
| --- | --- |
| Test case specification identifier | T-0003 |
| Purpose | To check the functionality of ‘Login the system’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Enter email address in 50 characters as given below and password at least 6 character and at most 15 character in the respected field: (with wrong password)  jubayer@yahoo.com asdjhjlkj#  atiq\_123@gmail.com n\*12kljop6  smkolife@gmail.com password |
| Test procedures | Click on the ‘login button’ then insert credentials in the respected fields. |
| Output specifications | “Wrong email or password” message will be shown in a prompt. |

Table 4: Test specification of T-0004

|  |  |
| --- | --- |
| Test case specification identifier | T-0004 |
| Purpose | To check the functionality of ‘Login the system’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Enter only email address not the password:  jubayer@yahoo.com  atiq\_123@gmail.com  smkolife@gmail.com |
| Test procedures | Click on the ‘login button’ then insert credentials in the respected fields. |
| Output specifications | “Please fill all the required fields” message will be shown in a prompt. |

Table 5: Test specification of T-0005

|  |  |
| --- | --- |
| Test case specification identifier | T-0005 |
| Purpose | To check the functionality of ‘Login the system’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Enter only password not the email:  a5673#kl  n\*124#17  sm092hguy |
| Test procedures | Click on the ‘login button’ then insert credentials in the respected fields. |
| Output specifications | “Please fill all the required fields” message will be shown in a prompt. |

Table 6: Test specification of T-0007

|  |  |
| --- | --- |
| Test case specification identifier | T-0006 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Full Name = ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?)  Email = [a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$  Password = ^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$ (at least 6 characters and at most 15 characters).  Confirm password = Same as password. |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields. |
| Output specifications | “Account created successfully” message will be shown in a prompt. |

Table 7: Test specification of T-0007

|  |  |
| --- | --- |
| Test case specification identifier | T-0007 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | **Full Name != ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?)**  Email = [a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$  Password = ^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$ (at least 6 characters and at most 15 characters).  Confirm password = Same as password. |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields and click on create account button. |
| Output specifications | Show name field with red border and make create account button inactive. |

Table 8: Test specification of T-0008

|  |  |
| --- | --- |
| Test case specification identifier | T-0008 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Full Name = ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?)  **Email != [a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3**}**$**  Password = ^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$ (at least 6 characters and at most 15 characters).  Confirm password = Same as password. |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields and click on create account button. |
| Output specifications | Show email field with red border and make create account button inactive. |

Table 9: Test specification of T-0009

|  |  |
| --- | --- |
| Test case specification identifier | T-0009 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Full Name = ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?)  Email = [a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$  **Password != ^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$ (at least 6 characters and at most 15 characters).**  Confirm password = Same as password. |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields and click on create account button. |
| Output specifications | Show password field with red border and make create account button inactive and show password requirements in message. |

Table 10: Test specification of T-0010

|  |  |
| --- | --- |
| Test case specification identifier | T-0010 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Full Name = ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?)  Email = [a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$  Password = ^(?=.\*[A-Za-z])(?=.\*\d)[A-Za-z\d]{8,}$ (at least 6 characters and at most 15 characters).  **Confirm password != Password.** |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields and click on create account button. |
| Output specifications | Show confirm password field with red border and make create account button inactive. |

Table 11: Test specification of T-0011

|  |  |
| --- | --- |
| Test case specification identifier | T-0011 |
| Purpose | To check the functionality of ‘User registration’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Email that previously used. |
| Test procedures | Click sign up button enter Full name, Email, Password and Confirm password in the respected fields and click on create account button. |
| Output specifications | “This email address is already for creating another user account” will be prompt. |

Table 12: Test specification of T-0012

|  |  |
| --- | --- |
| Test case specification identifier | T-0012 |
| Purpose | To check the functionality of ‘Log out’ |
| Test items needed | Refer Usecase-1.1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as Registered user or an Administrator. |
| Inter case dependencies | T-0001 the user should be logged in previously. |
| Input specifications |  |
| Test procedures | Click on “Log out” Button. |
| Output specifications | “Logout successful” message will be shown. |

Table 13: Test specification of T-0013

|  |  |
| --- | --- |
| Test case specification identifier | T-0013 |
| Purpose | To check the functionality of ‘Administration request’ |
| Test items needed | Refer Usecase-1.1.2 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly. |
| Special procedural requirements | The user should be logged in as a registered user and not an Administrator. |
| Inter case dependencies | T-0001 must be execute to be successfully login. |
| Input specifications |  |
| Test procedures | Click on “Request for being Administrator” button in User account page. |
| Output specifications | “Request has been sent” message will be shown and on “Request for being Administrator” button will be inactive and a notification will be sent to the admin. |

### Activity Management Subsystem

|  |  |  |
| --- | --- | --- |
| Functionality | Use case in SRS | Test case ID |
| Searching Question | 1.2.1 | T-0014 |
| Sorting Question | 1.2.2 | T-0015, T-0016, T-0008, T-0017, T-0018 |
| Approve Administration Request | 1.2.3 | T-0019 |
| Deny Administration Request | 1.2.3 | T-0020 |

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Figure 5: Use case diagram - 1.2 – Activity Management

Table 14: Test specification of T-0014

|  |  |
| --- | --- |
| Test case specification identifier | T-0014 |
| Purpose | To check the functionality of ‘Searching Question’ |
| Test items needed | Refer Usecase-1.2.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be matched should be in running condition. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications | Text at most 500 characters |
| Test procedures | Insert text in search box and press search icon beside the search box. |
| Output specifications | List of the matching questions |

Table 15: Test specification of T-0015

|  |  |
| --- | --- |
| Test case specification identifier | T-0015 |
| Purpose | To check the functionality of ‘Sorting Question’ |
| Test items needed | Refer Usecase-1.2.2 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications |  |
| Test procedures | Click on “Most voted” button in question page |
| Output specifications | Show questions sorted by most vote. |

Table 16: Test specification of T-0016

|  |  |
| --- | --- |
| Test case specification identifier | T-0016 |
| Purpose | To check the functionality of ‘Sorting Question’ |
| Test items needed | Refer Usecase-1.2.2 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications |  |
| Test procedures | Click on “Most Answered” button in question page |
| Output specifications | Show questions sorted by most answer frequency. |

Table 17: Test specification of T-0017

|  |  |
| --- | --- |
| Test case specification identifier | T-0017 |
| Purpose | To check the functionality of ‘Sorting Question’ |
| Test items needed | Refer Usecase-1.2.2 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications |  |
| Test procedures | Click on “Unanswered” button in question page |
| Output specifications | Show questions those are not answered yet. |

Table 18: Test specification of T-0018

|  |  |
| --- | --- |
| Test case specification identifier | T-0018 |
| Purpose | To check the functionality of ‘Sorting Question’ |
| Test items needed | Refer Usecase-1.2.2 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided. |
| Special procedural requirements |  |
| Inter case dependencies |  |
| Input specifications |  |
| Test procedures | Click on “Unanswered” button in question page |
| Output specifications | Show questions those are not answered yet. |

Table 19: Test specification of T-0019

|  |  |
| --- | --- |
| Test case specification identifier | T-0019 |
| Purpose | To check the functionality of ‘Approve Administrator Request’ |
| Test items needed | Refer Usecase-1.2.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided and insert data in the database. |
| Special procedural requirements | There should be request from registered user for being Administrator. And user should be logged in as an Administrator. |
| Inter case dependencies | T-0001 is required for Administrator’s Logging in and T-0013 is required for Administration request. |
| Input specifications |  |
| Test procedures | Click “Approve” button on request page. |
| Output specifications | “Request Approved” message will be shown and the user who requested will become new Administrator and will get a notification of approval. |

Table 20: Test specification of T-0020

|  |  |
| --- | --- |
| Test case specification identifier | T-0020 |
| Purpose | To check the functionality of ‘Deny Administrator Request’ |
| Test items needed | Refer Usecase-1.2.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be provided and insert data in the database. |
| Special procedural requirements | There should be request from registered user for being Administrator. And user should be logged in as an Administrator. |
| Inter case dependencies | T-0001 is required for Administrator’s Logging in and T-0013 is required for Administration request. |
| Input specifications |  |
| Test procedures | Click “Deny” button on request page. |
| Output specifications | “Request Denied” message will be shown. |

### Question Management Subsystem

|  |  |  |
| --- | --- | --- |
| Functionality | Use case in SRS | Test case ID |
| Asking Question | 1.3.3 | T-0021, T-0022 |
| Delete Question | 1.3 | T-0023 |
| Update Question | 1.3 | T-0024 |
| Up vote Question | 1.3.5 | T-0025 |
| Down vote Question | 1.3.5 | T-0026 |
| Answer Question | 1.3.4 | T-0027 |

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Figure 6: Use case diagram - 1.3- Question Management

Table 21: Test specification of T-0021

|  |  |
| --- | --- |
| Test case specification identifier | T-0021 |
| Purpose | To check the functionality of ‘Asking Question’ |
| Test items needed | Refer Usecase-1.3.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted data in the database. |
| Special procedural requirements | User has to be logged in. |
| Inter case dependencies | T-0001 for being a logged in user. |
| Input specifications | Question should be at least 3 characters and at most 200 characters, Category should be at most 50 characters and description should be at most 500 characters. |
| Test procedures | Click on “Add new question” add then insert Question, category and description. Then click on “add” button. |
| Output specifications | “Question has been added” message will be shown. |

Table 22: Test specification of T-0022

|  |  |
| --- | --- |
| Test case specification identifier | T-0022 |
| Purpose | To check the functionality of ‘Asking Question’ |
| Test items needed | Refer Usecase-1.3.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which the data will be inserted data in the database. |
| Special procedural requirements | User has to be logged in. |
| Inter case dependencies | T-0001 for being a logged in user. |
| Input specifications |  |
| Test procedures | Click on “Add new question” add then insert Question, category and description. No text in question field. Then click on “add” button. |
| Output specifications | “add” button will be in active and question field will be viewed with red border. |

Table 23: Test specification of T-0023

|  |  |
| --- | --- |
| Test case specification identifier | T-0023 |
| Purpose | To check the functionality of ‘Delete Question’ |
| Test items needed | Refer Usecase-1.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as the owner of the question or being an Administrator. |
| Inter case dependencies | T-0001 for being a logged in user and user who add the question or an Administrator |
| Input specifications |  |
| Test procedures | Click on “delete” beside the question on the question list button the click on “confirm” button. |
| Output specifications | A pop up will provide a “confirm” button. If confirmed button is clicked the “Question has been deleted” message will be shown. |

Table 24: Test specification of T-0024

|  |  |
| --- | --- |
| Test case specification identifier | T-0024 |
| Purpose | To check the functionality of ‘Update Question’ |
| Test items needed | Refer Usecase-1.3 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as the owner of the question. |
| Inter case dependencies | T-0001 for being a logged in user and user who add the question |
| Input specifications | Question should be at least 3 characters and at most 200 characters, Category should be at most 50 characters and description should be at most 500 characters. |
| Test procedures | Click on “update” beside the question on the question list button the click on “save” button. |
| Output specifications | A pop up will provide a “confirm” button. If confirmed button is clicked the “Question has been deleted” message will be shown. |

Table 25: Test specification of T-0025

|  |  |
| --- | --- |
| Test case specification identifier | T-0025 |
| Purpose | To check the functionality of ‘Up vote Question’ |
| Test items needed | Refer Usecase-1.3.5 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in |
| Inter case dependencies | T-0001 for being a logged in user |
| Input specifications |  |
| Test procedures | Click on “Like” icon if it is active. |
| Output specifications | “Vote has been added” message will be shown and the “Like icon” will be inactivated. If the “Dislike” icon was inactivated then that will be active. |

Table 26: Test specification of T-0026

|  |  |
| --- | --- |
| Test case specification identifier | T-0026 |
| Purpose | To check the functionality of ‘Down vote Question’ |
| Test items needed | Refer Usecase-1.3.5 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as a registered user or as an Administrator. |
| Inter case dependencies | T-0001 for being a logged in user |
| Input specifications |  |
| Test procedures | Click on “Dislike” icon if it is active. |
| Output specifications | “Down vote has been added” message will be shown and the “Dislike icon” will be inactivated. If the “Like” icon was inactivated then that will be active. |

Table 27: Test specification of T-0027

|  |  |
| --- | --- |
| Test case specification identifier | T-0012 |
| Purpose | To check the functionality of ‘Answering Question’ |
| Test items needed | Refer Usecase-1.3.4 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as a registered user or as an Administrator. |
| Inter case dependencies | T-0001 to be a logged in user |
| Input specifications | Alphanumeric characters At least 1 and at most 500 characters. |
| Test procedures | Add text into the textbox below the question’s and press “Add Answer” button. |
| Output specifications | “Answer successfully added” message will be shown. |

### User Account Management Subsystem

|  |  |  |
| --- | --- | --- |
| Functionality | Use case in SRS | Test case ID |
| Update user account | 1.1 | T-0028, T-0029 |

Table 28: Test specification of T-0028

|  |  |
| --- | --- |
| Test case specification identifier | T-0028 |
| Purpose | To check the functionality of ‘Update user account’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as a registered user or as an Administrator and should be the owner of the account. |
| Inter case dependencies | T-0001 to be a logged in user |
| Input specifications | Full Name = ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?) |
| Test procedures | Click on the “Profile button” then click on the update button the insert full name on the required text field then click save button. |
| Output specifications | “User name updated successfully” message will be shown. |

Table 29: Test specification of T-0029

|  |  |
| --- | --- |
| Test case specification identifier | T-0029 |
| Purpose | To check the functionality of ‘Update user account’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as a registered user or as an Administrator and should be the owner of the account. |
| Inter case dependencies | T-0001 to be a logged in user |
| Input specifications | Full Name != ^([a-zA-Z]{2,}\s[a-zA-z]{1,}'?-?[a-zA-Z]{2,}\s?([a-zA-Z]{1,})?) |
| Test procedures | Click on the “Profile button” then click on the update button the insert full name on the required text field. |
| Output specifications | Save button will be inactive and the full name text fields’ border will be red in color. |

### Notification Subsystem

|  |  |  |
| --- | --- | --- |
| Functionality | Use case in SRS | Test case ID |
| Notification to approve as Administrator | 1.1 | T-0030 |
| Notification of Administrative approval | 1.1 | T-0031 |

Table 30: Test specification of T-0030

|  |  |
| --- | --- |
| Test case specification identifier | T-0012 |
| Purpose | To check the functionality of ‘Notification to approve as Administrator’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as an Administrator. |
| Inter case dependencies | T-0001 to be a logged in user |
| Input specifications |  |
| Test procedures | Click on “Bell” icon. |
| Output specifications | The list of requested user will be shown for approval or denial. |

Table 31: Test specification of T-0031

|  |  |
| --- | --- |
| Test case specification identifier | T-0012 |
| Purpose | To check the functionality of ‘Notification of Administrative approval’ |
| Test items needed | Refer Usecase-1.1 in SRS |
| Special environment | Internet should be in working condition. Database software through which will update data in the database. |
| Special procedural requirements | User has to be logged in as Registered user. |
| Inter case dependencies | T-0001 to be a logged in user |
| Input specifications |  |
| Test procedures | Click on “Bell” icon. |
| Output specifications | “Your request for being an Administrator has been accepted” message will be shown. |