Test Cases: Check functionality of addPost

Test Scenario	Test Case	Test Data	Expected Result	Test Result	Pass or Fail
Check functionality of addPost	Test Case 1: Valid Input	Title: "Valid Title 123", Body: 300 characters, Tags: ["java", "python"], Type: "Easy", Emergency: "Ordinary"	Post is valid	Post is valid	Pass
	Test Case 2: Valid Input (Difficult)	Title: "Another Valid Title", Body: 250 characters, Tags: ["code", "python"], Type: "Difficult", Emergency: "Highly Needed"	Post is invalid	Post is invalid	Pass
	Test Case 3: Invalid Title Length	Title: "Short", Body > 250 characters, Tags: ["java", "code"], Type: "Easy", Emergency: "Ordinary"	Post is invalid	Post is invalid	Pass
	Test Case 4: Invalid Title Length (empty title)	Title: "", Body > 250 characters, Tags: ["development", "tutorial"], Type: "Difficult", Emergency: "Highly Needed"	Post is invalid	Post is invalid	Pass
	Test Case 5: Invalid Body Length	Title: "Valid Title", Body: "Too short", Tags: ["java", "code"], Type: "Easy", Emergency: "Ordinary"	Post is invalid	Post is invalid	Pass
	Test Case 6: Invalid Tags	Title: "Valid Title", Body > 250 characters, Tags: ["j", "p"], Type: "Easy", Emergency: "Ordinary"	Post is invalid	Post is invalid	Pass
	Test Case 7: Invalid Tags (long tag)	Title: "Another Valid Title", Body > 250 characters, Tags: ["singlelonginvalidtag"], Type: "Difficult",	Post is invalid	Post is invalid	Pass

		Emergency: "Highly Needed"			
	Test Case 8: Invalid Post Type and Emergency Combination	Title: "Valid Title", Body > 250 characters, Tags: ["java", "code"], Type: "Easy", Emergency: "Immediately Needed"	Post is invalid	Post is invalid	Pass
	Test Case 9: Invalid Title Characters	Title: "12345@Title", Body > 250 characters, Tags: ["java", "code"], Type: "Easy", Emergency: "Ordinary"	Post is invalid	Post is invalid	Pass

Test Cases: Check functionality of addComment

Test Scenario	Test Case	Test Data	Expected Result	Test Result	Pass or Fail
Check functionality of addComment	Test Case 1: Valid Comment	Comment: "This is a valid comment.", Post Type: "Easy"	Comment is valid	Comment is valid	Pass
	Test Case 2: Invalid Short Comment	Comment: "Not valid.", Post Type: "Difficult"	Comment is invalid	Comment is invalid	Pass
	Test Case 3: Exceeding Comment Count	Four comments for "Easy", Five comments for "Difficult"	Last comment for each should fail	Last comment for each fails	Pass
	Test Case 4: Comment Length Invalid	Comment: "Too short", Post Type: "Easy"	Comment is invalid	Comment is invalid	Pass
	Test Case 5: Comment First Character Case Invalid	Comment: "this starts with lowercase, hence invalid.", Post Type: "Easy"	Comment is invalid	Comment is invalid	Pass
	Test Case 6: Words in Comment Out of Bounds	Comment: "Word1 Word2 … Word11", Post Type: "Easy"	Comment is invalid	Comment is invalid	Pass
	Test Case 7: Empty Comment	Comment: "", Post Type: "Easy"	Comment is invalid	Comment is invalid	Pass

User Stories

User Story 1: Question Asking

As a registered user, I want to ask questions on the platform so that I can receive answers from other knowledgeable users.

Acceptance Criteria:

1. The system allows the user to input a question with a title and detailed description.
2. The user can add tags relevant to the question for better categorization.
3. The system confirms the submission and displays the question on the user's profile and relevant search results.

User Story 2: Answering Questions

As a user, I want to answer questions posted by others so that I can share my knowledge and gain reputation points.

Acceptance Criteria:

1. Users can find questions through browsing or searching tags/categories.
2. The system allows users to post answers directly beneath the question.
3. Each answer can be edited or deleted by its author within 24 hours of posting.

User Story 3: Voting on Content

As a user, I want to vote on questions and answers so that useful content is more visible to the community.

Acceptance Criteria:

1. Each question and answer has upvote and downvote buttons.
2. The total vote count adjusts immediately after a user votes.
3. Users cannot vote on their own questions or answers.

User Story 4: User Registration and Membership

As a new visitor, I want to register for an account so that I can participate in asking questions, answering, and voting.

Acceptance Criteria:

1. The registration page requires username, email, and password.
2. After registration, the user receives an email confirmation link.
3. The system offers different membership types during registration, each with specific privileges.

User Story 5: Moderation of Content

As an administrator, I want to delete irrelevant or inappropriate posts so that the platform remains useful and respectful.

Acceptance Criteria:

1. Administrators can view reports of inappropriate content from users.
2. Administrators can delete any post, with an option to notify the original poster.
3. The system logs all administrative actions for auditing purposes.