ISYS3413 – Assignment 4

Section 1: Test Cases

Test Cases	Test Data	Expected Result	Test Result	Pass/Fail
testAddValidPost()	Post post	True	True	Pass
testInvalidPostTitle()	String postTitle = "Short"	False	False	Pass
testInvalidPostBody-Length()	String postBody = "Short body"	False	False	Pass
testInvalidPostType()	String postType = "Invalid Type"	False	False	Pass
testInvalidPostTagsEasy()	String postType = Easy String postTags[] = {"tag1", "tag2", "tag3", "tag4"}	False	False	Pass
testInvalidPostBody-ForDifficult()	String postType = "Very Difficult" String postBody = "Short body"	False	False	Pass
testInvalidPostEmergency-StatusForEasy()	String postType = "Easy" String postEmergencyStatus = "Immediately Needed"	False	False	Pass
testInvalidPostEmergency-StatusForDifficultTypes()	String postType = "Very Difficult" String postEmergencyStatus = "Ordinary"	False	False	Pass
testAddValidComment()	String comment = "This is a valid comment."	True	True	Pass
testInvalidComment-Length()	String shortComment = "Too short" String longComment = "This coment actually has way too many words to be valid."	False	False	Pass

testInvalidCommentFirstCharacter()	String comment = "this is an invalid comment."	False	False	Pass
testTooManyComments()	5x post.addComment("This is a valid comment"), 1x string "This should fail."	False	False	Pass
testTooManyCommentsForEasyOrdinary	String postType = "Easy" String postEmergencyStatus = "Ordinary" 3x comments added – "This is a valid comment." 1x comment added "This should fail."	False	False	Pass
testInvalidCommentSpecialCharacterFirstCharacter	String comment = "@Incalid comment with special character."	False	False	Pass

Section 2: User Stories

User Story 1: Create New Post

- As a user, I want to create a new post so that I can share information and seek help.

Acceptance Criteria:

- **Post creation:** a post can be created with a title, body, tags, type, and emergency status.
- **Validation:** the system validates the post title, body, length, type, tags, and emergency status before allowing the post to be created.
- **File writing:** upon successful creation, the post details are written to 'post.txt'

User Story 2: Add Comments to a Post

- As a user, I want to add comments to a post so that I can engage in discussions, help others, and provide feedback.

Acceptance Criteria:

- **Comment Creation**: A comment can be added to a post with the appropriate length and first character validation.
- **Validation**: The system ensures comments meet the word count and first character requirements before adding them.
- **File Writing**: Upon successful addition, the comment details are written to comment.txt.

User Story 3: View All Posts

- As a user, I want to view all posts so that I can read existing information and responses.

Acceptance Criteria:

- **Display Posts**: The system retrieves and displays all posts from post.txt.
- **Post Details**: Each post displayed includes the title, body, tags, type, and emergency status.
- **Sorting**: Posts can be sorted by different criteria such as date created, type, or emergency status.

User Story 4: Edit an Existing Post

- As a user, I want to edit an existing post so that I can update or correct information.

Acceptance Criteria:

- **Post Selection**: The system allows the user to select a post to edit from the list of posts.
- **Validation**: The system validates the updated post details (title, body, tags, type, and emergency status) before saving changes.
- **File Update**: Upon successful validation, the updated post details are written back to post.txt.

User Story 5: Delete a Post

- As a user, I want to delete a post so that I can remove outdated or irrelevant information.

Acceptance Criteria:

- **Post Selection**: The system allows the user to select a post to delete from the list of posts.
- **Confirmation**: The system prompts the user for confirmation before deleting the post.
- **File Update**: Upon confirmation, the post is removed from post.txt and the file is updated accordingly.