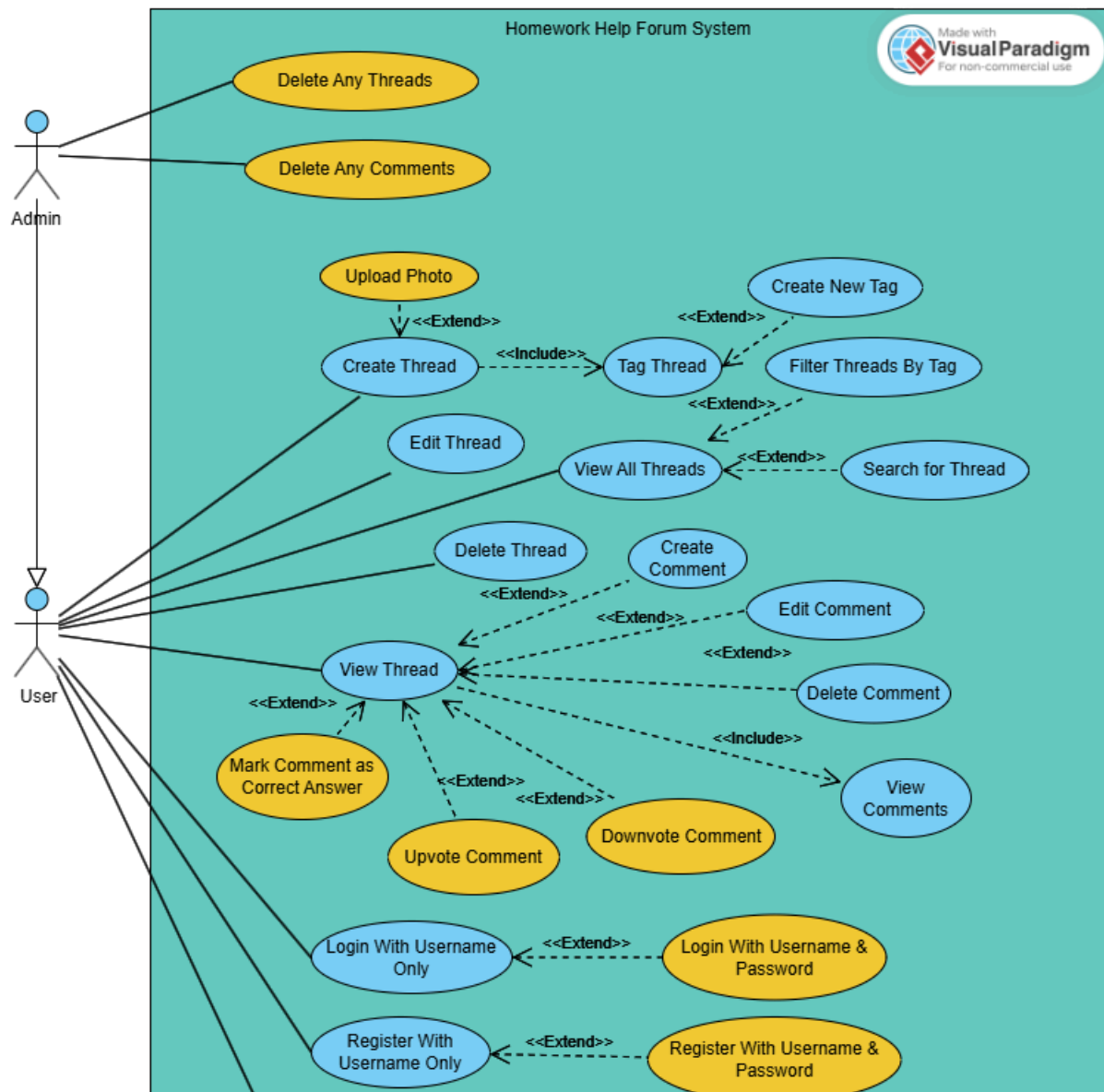


CVWO ASSIGNMENT WEB FORUM - Homework Help (HWH)

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Use Case Diagram



Use Case Specifications

Thread Related Use Cases

Use Case Specification #1:

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|---------------------|---|
| Name of Use Case | Create Thread |
| Brief Description | To allow a user to create a thread to ask for help. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case.- User must have filled up all the details of the thread.- User must have completed the Tag Thread use case.- User must click on the submit button on the Create Thread page to create the thread. |
| Post-conditions | <ul style="list-style-type: none">- Thread is posted on the forum with the timestamp, author's username, thread title and thread tag. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none">1. User wants to make a thread to ask for help.2. System checks if the user is logged in. A1: User is not logged in3. User inputs the thread title and thread description and completes the Tag Thread use case to tag the thread. A2: User uploads a Photo A3: User creates a new Tag4. User clicks the submit button.5. System checks if the user has filled in all the thread details. A4: User does not input some thread details6. System creates the thread in the database.7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none">1. User is brought to the Login page. A2: User uploads a Photo <ol style="list-style-type: none">1. User completes the Upload Photo use case. A3: User creates a new tag <ol style="list-style-type: none">1. User completes the Create Tag use case. A4: User does not input some thread details <ol style="list-style-type: none">1. An alert is displayed to notify the user of the missing thread details.2. User returns to step 3 of Expected Flow. |
| Error Flow | E1: The server is down <ol style="list-style-type: none">1. An alert is displayed to notify the user that the server is down.2. User returns to step 3 of Expected Flow. |

Use Case Specification #2:

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| Name of Use Case | Tag Thread |
| Brief Description | To allow a user to assign a tag to a thread. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case.- User must have started the Create Thread use case. |
| Post-conditions | <ul style="list-style-type: none">- Thread is tagged with the selected tag. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none">1. User must tag a thread with a tag.2. System checks if the user is logged in. A1: User is not logged in3. User views all existing tags. A1: User creates a new tag4. User selects an appropriate tag and tags it to their to-be-created thread.5. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none">1. User is brought to the Login page. A2: User creates a new tag <ol style="list-style-type: none">1. User completes the Create Tag use case. |
| Error Flow | E1: The server is down <ol style="list-style-type: none">1. An alert is displayed to notify the user that the server is down.2. Back to Create Thread use case. |

Use Case Specification #3:

| | |
|---------------------|--|
| Name of Use Case | Create Tag |
| Brief Description | To allow a user to create a new tag. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case.- User must have started the Create Thread use case.- User must have started the Tag Thread use case.- User must click on the submit button on the Create Tag modal pop-up to create the new tag. |
| Post-conditions | <ul style="list-style-type: none">- New tag is created in the database. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none">1. User wants to create a new tag for their thread.2. System checks if the user is logged in. A1: User is not logged in |

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| | <ol style="list-style-type: none"> 3. User inputs the new name of the tag they wish to create. 4. User clicks the submit button. 5. System checks if the tag name field is empty. A2: User does not input a valid tag name 6. System creates the new tag in the database. 7. User is brought back to the Create Thread page. 8. An alert is shown to notify the user to refresh the Create Thread page to view the newly created tag. 9. End of Use Case. |
| Alternate Flow | <p>A1: User is not logged in</p> <ol style="list-style-type: none"> 1. User is brought to the Login page. <p>A2: User does not input a valid tag name</p> <ol style="list-style-type: none"> 1. An alert is displayed to inform the user to change the tag name to a valid one. |
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to Create Thread use case. |

Use Case Specification #4:

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| Name of Use Case | Upload Photo |
| Brief Description | To allow a user to upload a photo in their thread. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must have started the Create Thread use case. - User must click on the submit button in the Create Thread page to upload the photo with the rest of the thread details. |
| Post-conditions | <ul style="list-style-type: none"> - The photo is uploaded into the database with the thread data. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to upload a photo in their thread post for discussion. 2. System checks if the user is logged in. A1: User is not logged in 3. User clicks the upload photo button which opens up a prompt for them to upload a photo. 4. User selects the photo from their file system and uploads it to the Create Thread page. 5. User clicks the submit button (in Create Thread Use Case). 6. System checks if the photo file size is too large. A2: Photo file size is too large 7. System uploads the photo to the media storage and the url link is saved in the database. 8. End of Use Case. |

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| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: Photo file size is too large <ol style="list-style-type: none"> 1. Photo is rejected and an alert is displayed to inform the user to upload a smaller sized photo. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to Create Thread use case. |

Use Case Specification #5:

| | |
|---------------------|--|
| Name of Use Case | Edit Thread |
| Brief Description | To allow a user to edit a thread that they have created. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must have created a thread by completing the Create Thread use case before. - User must click on the submit button to submit the updated thread details. |
| Post-conditions | <ul style="list-style-type: none"> - The thread details are updated with the new details. |
| Special Requirement | Only the author of the thread is allowed to edit the thread details. |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to edit a thread that they have created. 2. System checks if the user is logged in. A1: User is not logged in 3. User inputs the new thread text data. 4. User clicks the submit button. 5. System checks if the user has input any invalid or missing details. A2: Missing or invalid thread details 6. System updates the thread text details in the database. 7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: Missing or invalid thread details <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that there is missing or invalid data. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to step 3 of Expected Flow. |

Use Case Specification #6:

| | |
|---------------------|---|
| Name of Use Case | Delete Thread |
| Brief Description | To allow a user to delete a thread that they have created. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case.- User must have created a thread by completing the Create Thread use case before.- User must click on the delete button to delete the thread. |
| Post-conditions | <ul style="list-style-type: none">- The thread and its comments are deleted from the platform. |
| Special Requirement | Only the author of the thread is allowed to delete the thread. |
| Expected Flow | <ol style="list-style-type: none">1. User wants to delete a thread that they have created.2. System checks if the user is logged in. A1: User is not logged in3. User selects the thread they want to delete.4. User clicks the delete button.5. System confirms with the user if they want to delete the thread.6. User clicks on the confirm delete button. A2: User cancels the deletion process7. System deletes the thread and its comments from the database.8. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none">1. User is brought to the Login page. A2: User cancels the deletion process <ol style="list-style-type: none">1. User is brought back to the View Thread page. |
| Error Flow | E1: The server is down <ol style="list-style-type: none">1. An alert is displayed to notify the user that the server is down.2. Back to step 3 of Expected Flow. |

Use Case Specification #7:

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|---------------------|--|
| Name of Use Case | View All Threads |
| Brief Description | To allow a user to view all threads on the platform. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case. |
| Post-conditions | Nil |
| Special Requirement | Nil |

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| Expected Flow | <ol style="list-style-type: none"> 1. User wants to view all the threads on the platform. 2. System checks if the user is logged in. A1: User is not logged in 3. User navigates to the Home page. 4. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Replace the threads section with “Server not available” message. |

Use Case Specification #8:

| | |
|---------------------|---|
| Name of Use Case | Filter Thread by Tag |
| Brief Description | To allow a user to filter all threads on the platform by a specific tag. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must open the filter menu, select a tag and click on the filter button to filter threads by that tag. |
| Post-conditions | Nil |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to filter all the threads on the platform by a specific tag. 2. System checks if the user is logged in. A1: User is not logged in 3. User navigates to the Home page. 4. User opens up the filter menu. 5. User selects the specific tag they want to filter by. 6. User clicks the filter button to filter threads by the selected tag. A2: User did not select a tag. 7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: User did not select a tag <ol style="list-style-type: none"> 1. An alert is displayed to notify the user to select a tag to filter threads by. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Replace the threads section with “Server not available” |

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| | message. |
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Use Case Specification #9:

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| Name of Use Case | Search for Thread |
| Brief Description | To allow a user to search for a specific thread by title. |
| Actor | User |
| Pre-conditions | - User must be logged in by completing the Login use case. |
| Post-conditions | Nil |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to search for a specific thread by title. 2. System checks if the user is logged in. A1: User is not logged in 3. User navigates to the Home page. 4. User clicks on the search bar and inputs the title of the post they want to search for. A2: User did not enter any input in the search bar 5. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: User did not enter any input in the search bar <ol style="list-style-type: none"> 2. Nothing happens. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Replace the threads section with "Server not available" message. |

Use Case Specification #10:

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|---------------------|--|
| Name of Use Case | View Thread |
| Brief Description | To allow a user to view the details and comments of a specific thread. |
| Actor | User |
| Pre-conditions | - User must be logged in by completing the Login use case. |
| Post-conditions | Nil |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to view the details and comments of a specific thread. 2. System checks if the user is logged in. |

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| | <p>A1: User is not logged in</p> <ol style="list-style-type: none"> 3. User selects on a thread they want to view the details and comments of, from the Home page. 4. User is navigated to the View Thread page. 5. End of Use Case. |
| Alternate Flow | <p>A1: User is not logged in</p> <ol style="list-style-type: none"> 1. User is brought to the Login page. |
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Replace thread content with "Server not available" message. |

Use Case Specification #11:

| | |
|---------------------|--|
| Name of Use Case | Delete Any Thread |
| Brief Description | To allow an admin to delete any thread. |
| Actor | Admin |
| Pre-conditions | <ul style="list-style-type: none"> - Admin must be logged in by completing the Login use case. - Admin must click on the delete button to delete the thread. |
| Post-conditions | <ul style="list-style-type: none"> - The thread and its comments are deleted from the platform. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. Admin wants to delete a thread they deem inappropriate. 2. System checks if the user is logged in. A1: Admin is not logged in 3. Admin selects the thread they want to delete. 4. Admin clicks the delete button. 5. System confirms with the admin if they want to delete the thread. 6. Admin clicks on the confirm delete button. A2: Admin cancels the deletion process 7. System deletes the thread and its comments from the database. 8. End of Use Case. |
| Alternate Flow | <p>A1: Admin is not logged in</p> <ol style="list-style-type: none"> 1. Admin is brought to the Login page. <p>A2: Admin cancels the deletion process</p> <ol style="list-style-type: none"> 1. Admin is brought back to the View Thread page. |
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none"> 1. An alert is displayed to notify the admin that the server is down. 2. Back to View Thread use case. |

Comment Related Use Cases

Use Case Specification #12:

| | |
|---------------------|--|
| Name of Use Case | Create Comment |
| Brief Description | To allow a user to create a comment on a thread to provide help or to clarify about the thread. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case.- User must have filled up all the details of the comment.- User must click on the submit button on the Create Comment page to create the comment. |
| Post-conditions | <ul style="list-style-type: none">- Comment is posted on the thread with the timestamp and author's username. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none">1. User wants to make a comment on a thread to provide help or to clarify about the thread.2. System checks if the user is logged in. A1: User is not logged in3. User inputs the comment text.4. User clicks the submit button.5. System checks if the user has filled in all the comment details. A2: User does not input the comment text details6. System creates the comment for the thread in the database.7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none">1. User is brought to the Login page. A2: User does not input some thread details <ol style="list-style-type: none">1. An alert is displayed to notify the user of the missing thread details.2. User returns to step 3 of Expected Flow. |
| Error Flow | E1: The server is down <ol style="list-style-type: none">1. An alert is displayed to notify the user that the server is down.2. User returns to step 3 of Expected Flow. |

Use Case Specification #13:

| | |
|-------------------|--|
| Name of Use Case | Edit Comment |
| Brief Description | To allow a user to edit a comment that they have created. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none">- User must be logged in by completing the Login use case. |

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| | <ul style="list-style-type: none"> - User must have created a comment by completing the Create Comment use case before. - User must click on the submit button to submit the updated comment details. |
| Post-conditions | <ul style="list-style-type: none"> - The comment details are updated with the new details. |
| Special Requirement | Only the author of the comment is allowed to edit the comment details. |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to edit a comment that they have created. 2. System checks if the user is logged in. A1: User is not logged in 3. User inputs the new comment text data. 4. User clicks the submit button. 5. System checks if the user has input any invalid or missing details. A2: Missing or invalid comment details 6. System updates the comment text details in the database. 7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: Missing or invalid thread details <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that there is missing or invalid data. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to step 3 of Expected Flow. |

Use Case Specification #14:

| | |
|---------------------|---|
| Name of Use Case | Delete Comment |
| Brief Description | To allow a user to delete a comment that they have created. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must have created a comment by completing the Create Comment use case before. - User must click on the delete button to delete the comment. |
| Post-conditions | <ul style="list-style-type: none"> - The comment is deleted from the platform. |
| Special Requirement | Only the author of the comment is allowed to delete the comment. |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to delete a comment that they have created. 2. System checks if the user is logged in. A1: User is not logged in 3. User selects the comment they want to delete. |

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| | <ol style="list-style-type: none"> User clicks the delete button. System confirms with the user if they want to delete the comment. User clicks on the confirm delete button. <p>A2: User cancels the deletion process</p> <ol style="list-style-type: none"> System deletes the comment from the database. End of Use Case. |
| Alternate Flow | <p>A1: User is not logged in</p> <ol style="list-style-type: none"> User is brought to the Login page. <p>A2: User cancels the deletion process</p> <ol style="list-style-type: none"> User is brought back to the View Thread page. |
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none"> An alert is displayed to notify the user that the server is down. Back to step 3 of Expected Flow. |

Use Case Specification #15:

| | |
|---------------------|--|
| Name of Use Case | View Comments |
| Brief Description | To allow a user to view all comments for a specific thread. |
| Actor | User |
| Pre-conditions | - User must be logged in by completing the Login use case. |
| Post-conditions | Nil |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> User wants to view all comments for a specific thread. System checks if the user is logged in. <p>A1: User is not logged in</p> <ol style="list-style-type: none"> User selects a thread from the Home page. User is navigated to the View Thread page. End of Use Case. |
| Alternate Flow | <p>A1: User is not logged in</p> <ol style="list-style-type: none"> User is brought to the Login page. |
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none"> An alert is displayed to notify the user that the server is down. Replace the comments section with "Server not available" message. |

Use Case Specification #16:

| | |
|-------------------|--|
| Name of Use Case | Upvote Comment |
| Brief Description | To allow a user to upvote a comment on a thread. |

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|---------------------|---|
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must click on the upvote button on the View Thread page on a specific comment. |
| Post-conditions | <ul style="list-style-type: none"> - Comment's vote count is updated. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to upvote a comment on a thread. 2. System checks if the user is logged in. A1: User is not logged in 3. User clicks the upvote button on a specific comment. 4. System updates the comment's vote count in the database. 5. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. User returns to step 3 of Expected Flow. |

Use Case Specification #17:

| | |
|---------------------|---|
| Name of Use Case | Downvote Comment |
| Brief Description | To allow a user to downvote a comment on a thread. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must click on the downvote button on the View Thread page on a specific comment. |
| Post-conditions | <ul style="list-style-type: none"> - Comment's vote count is updated. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to upvote a comment on a thread. 2. System checks if the user is logged in. A1: User is not logged in 3. User clicks the downvote button on a specific comment. 4. System updates the comment's vote count in the database. 5. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. User returns to step 3 of Expected Flow. |

Use Case Specification #18:

| | |
|---------------------|--|
| Name of Use Case | Mark Comment as Correct |
| Brief Description | To allow a user to mark a comment as the correct answer to their thread question. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must be logged in by completing the Login use case. - User must have created a thread by completing the Create Thread use case before. - User must click on the mark as correct button to mark the comment as correct. |
| Post-conditions | <ul style="list-style-type: none"> - The comment details are updated with the new details. |
| Special Requirement | Only the author of the thread is allowed to mark comments as correct in the thread. |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to mark a comment as a correct answer in a thread they have created. 2. System checks if the user is logged in. A1: User is not logged in 3. User selects the comment they want to mark as correct. 4. User clicks the mark as correct button. 5. System checks if the comment has not been previously marked as correct. A2: Comment has already marked as correct 6. System updates the comment details in the database. 7. End of Use Case. |
| Alternate Flow | A1: User is not logged in <ol style="list-style-type: none"> 1. User is brought to the Login page. A2: Comment has already marked as correct <ol style="list-style-type: none"> 1. Comment will be then unmarked as correct |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to step 3 of Expected Flow. |

Use Case Specification #19:

| | |
|-------------------|---|
| Name of Use Case | Delete Any Comment |
| Brief Description | To allow an admin to delete any comment. |
| Actor | Admin |
| Pre-conditions | <ul style="list-style-type: none"> - Admin must be logged in by completing the Login use case. - Admin must click on the delete button to delete the comment. |
| Post-conditions | <ul style="list-style-type: none"> - The comment is deleted from the platform. |

| | |
|---------------------|---|
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> Admin wants to delete a comment they deem inappropriate. System checks if the user is logged in. A1: Admin is not logged in Admin selects the comment they want to delete. Admin clicks the delete button. System confirms with the admin if they want to delete the comment. Admin clicks on the confirm delete button. A2: Admin cancels the deletion process System deletes the comment from the database. End of Use Case. |
| Alternate Flow | A1: Admin is not logged in <ol style="list-style-type: none"> Admin is brought to the Login page. A2: Admin cancels the deletion process <ol style="list-style-type: none"> Admin is brought back to the View Thread page. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> An alert is displayed to notify the admin that the server is down. Back to View Thread use case. |

Authentication & User Related Use Cases

Use Case Specification #20:

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|---------------------|---|
| Name of Use Case | Login (Username Only) |
| Brief Description | To allow a user to login to their account. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> User must have already created an account by completing the Register (Username Only) use case. User must click on the login button to login to their account. |
| Post-conditions | <ul style="list-style-type: none"> The user is logged into the platform. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> User wants to login into the platform. User inputs their username into the username field. User clicks on the login button. A1: User does not input their username A2: User does not exist A3: User enters an invalid username System logs the user into the platform. End of Use Case. |

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| Alternate Flow | A1: User does not input their username 1. Nothing happens. A2: User does not exist 1. An alert is displayed to notify the user that their account does not exist and recommend them to register for one. A3: User enters an invalid username 1. An alert is displayed to notify the user of the invalid field. |
| Error Flow | E1: The server is down 1. An alert is displayed to notify the user that the server is down. 2. Back to step 2 of Expected Flow. |

Use Case Specification #21:

| | |
|---------------------|--|
| Name of Use Case | Login (Username and Password) |
| Brief Description | To allow a user to login to their account. |
| Actor | User |
| Pre-conditions | <ul style="list-style-type: none"> - User must have already created an account by completing the Register (Username and Password) use case. - User must click on the login button to login to their account. |
| Post-conditions | <ul style="list-style-type: none"> - The user is logged into the platform. |
| Special Requirement | Nil |
| Expected Flow | 1. User wants to login into the platform. 2. User inputs their username and password into the login fields. 3. User clicks on the login button. A1: Invalid or missing login fields A2: User does not exist 4. System logs the user into the platform. 5. End of Use Case. |
| Alternate Flow | A1: Invalid or missing login fields 1. An alert is displayed to notify the user of the invalid fields. A2: User does not exist 1. An alert is displayed to notify the user that their account does not exist and recommend them to register for one. |
| Error Flow | E1: The server is down 1. An alert is displayed to notify the user that the server is down. 2. Back to step 2 of Expected Flow. |

Use Case Specification #22:

| | |
|------------------|--------------------------|
| Name of Use Case | Register (Username Only) |
|------------------|--------------------------|

| | |
|---------------------|---|
| Brief Description | To allow a user to register a new account. |
| Actor | User |
| Pre-conditions | - User must click on the register button to register an account. |
| Post-conditions | - A new account is created for the user on the platform. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to register a new account on the platform. 2. User inputs their username into the username field. 3. User clicks on the register button. A1: Missing or Invalid fields 4. System creates an account for the user using the given username. 5. End of Use Case. |
| Alternate Flow | A1: Missing or Invalid fields <ol style="list-style-type: none"> 1. An alert is displayed to notify the user of the missing or invalid fields. |
| Error Flow | E1: The server is down <ol style="list-style-type: none"> 1. An alert is displayed to notify the user that the server is down. 2. Back to step 2 of Expected Flow. |

Use Case Specification #23:

| | |
|---------------------|---|
| Name of Use Case | Register (Username and Password) |
| Brief Description | To allow a user to login to their account. |
| Actor | User |
| Pre-conditions | - User must click on the register button to register an account. |
| Post-conditions | - A new account is created for the user on the platform. |
| Special Requirement | Nil |
| Expected Flow | <ol style="list-style-type: none"> 1. User wants to register a new account on the platform. 2. User inputs their username and password into the fields. 3. User clicks on the register button. A1: Missing or Invalid fields 4. System creates an account for the user using the given username and password. 5. End of Use Case. |
| Alternate Flow | A1: Missing or Invalid fields <ol style="list-style-type: none"> 1. An alert is displayed to notify the user of the missing or invalid fields. |

| | |
|------------|--|
| Error Flow | <p>E1: The server is down</p> <ol style="list-style-type: none">1. An alert is displayed to notify the user that the server is down.2. Back to step 2 of Expected Flow. |
|------------|--|