

## CVWO Mid-Assignment

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### Use Case

(For all use cases below, the **System** is the Web Forum and the **Actor** is the User, unless otherwise specified)

Use case: UCo1 – Sign up an account

MSS

1. User requests to sign up an account.
2. User inputs sign up details.
3. Web Forum creates an account for User.  
Use case ends.

Extensions

- 2a. The account already exists.  
2a1. Web Forum shows an error message.  
Use case ends.

Use case: UCo2 – Log in an account

MSS

1. User requests to log into an account.
2. User inputs relevant account details.
3. Web Forum logs user in.  
Use case ends.

Extensions

- 2a. The account does not exist.  
2a1. Web Forum shows an error message.  
Use case ends.

Use case: UCo3 – Add a forum post

MSS

1. User adds a forum post.
2. Web Forum shows updated list of forum posts.  
Use case ends.

Use case: UCo4 – Delete a forum post

MSS

1. User deletes a forum post.
2. Web Forum shows updated list of forum posts.  
Use case ends.

Use case: UCo5 – Edit a forum post

MSS

1. User edits a forum post.
2. Web Forum edits the forum post.  
Use case ends.

Use case: UCo6 – Pin a forum post

MSS

1. User pins a forum post.
2. Web Forum shows the pinned forum posts at the top of the list.  
Use case ends.

Use case: UCo7 – Unpin a forum post

MSS

1. User unpins a forum post.
2. Web Forum returns forum post to default order shown in the list.  
Use case ends.

Use case: UCo8 – Reply to a forum post

MSS

1. User replies to a forum post.
2. Web Forum adds reply to the specified forum post.  
Use case ends.

Use case: UCo9 – Tag a forum post

MSS

1. User adds a tag to a forum post.
  2. Web Forum adds tag to the specified forum post.
- Use case ends.

Use case: UC10 – Untag a forum post

MSS

1. User removes a tag from a forum post.
  2. Web Forum removes the tag from the specified forum post.
- Use case ends.

Use case: UC11 – Search for a forum post

MSS

1. User searches for a forum post by tag.
  2. Web Forum shows list of forum posts with the specified tag.
- Use case ends.

### Plan

For the purposes of CVWO, I intend to use Ruby on Rails for backend development, integrating it with PostgreSQL for the database to be used.

For the frontend of the website, I will use React.js as the main framework to render my web pages. Before implementation, I would attempt to create a mock-up using Figma to better understand the design elements to be incorporated into the website.