

Actors

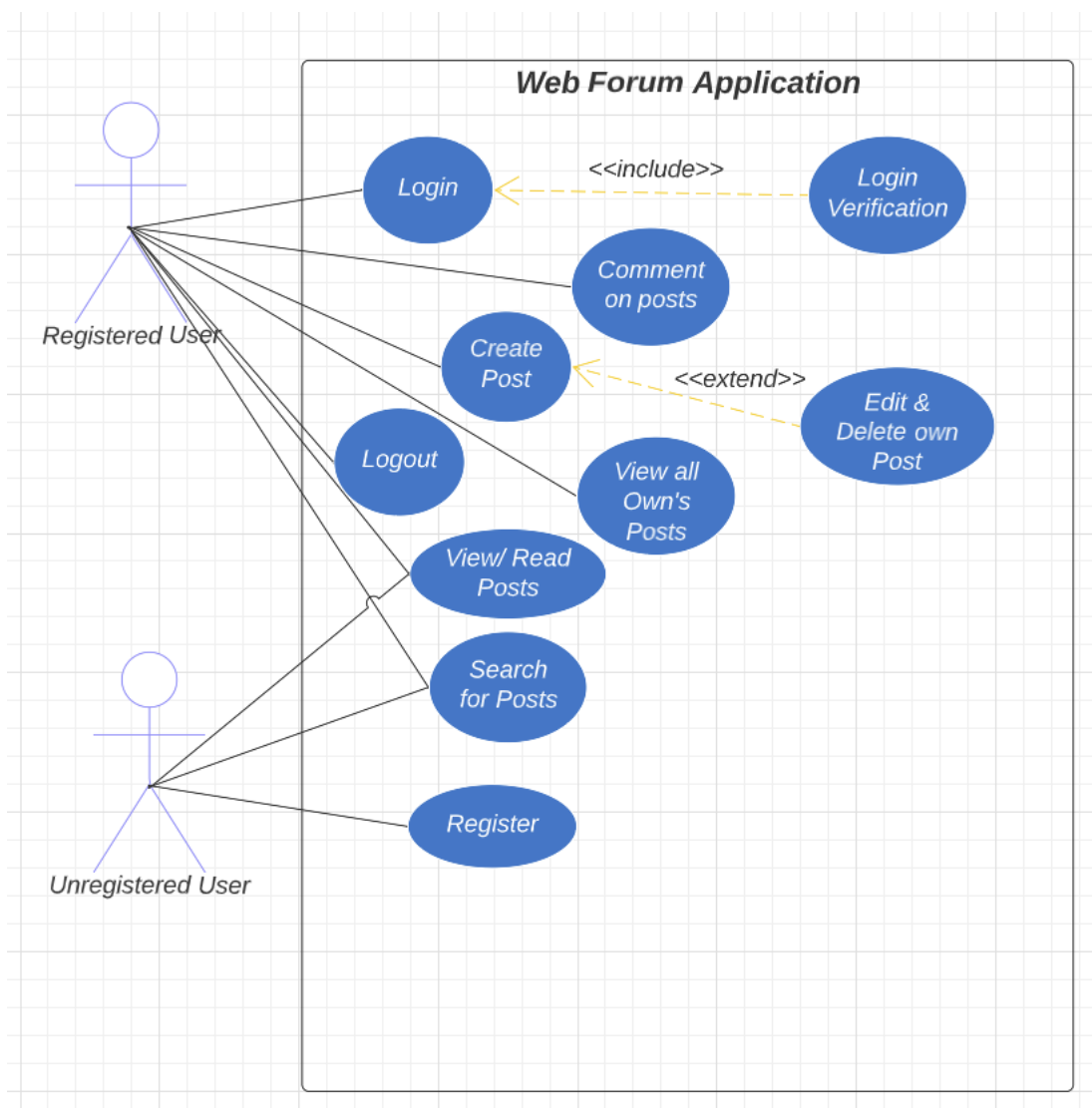
1. Users
 - a. Readers (Unregistered)
 - b. Authors / Commentors (Registered)

Use Cases

1. Register an Account
 - a. Actor: Unregistered Users
 - b. Basic Flow: A new User to the forum goes to the registration webpage and creates a new account they can log into thereafter.
2. Login
 - a. Actor: Registered Users
 - b. Basic Flow: Registered users key in login details into login page. After submission, server does login verification and logs the user in if the login details are valid.
3. Create A new Post
 - a. Actor: Logged-in (Registered) Users
 - b. Basic Flow: Users navigate to a page to create a new post.
 - i. Alternative Flow 1: If user is not logged in, they will be redirected to login/ registration page to login/register before proceeding
 - ii. Logged-in user will then reach a page where they can fill in the details of their new post (Title, Body, Tags) and submit the post on satisfaction
4. View/Read Posts
 - a. Actor: All users
 - b. Basic Flow: Users will be able to browse a list of forum posts. They can then click on a particular post to view the post individually in full.
5. Comment on Posts
 - a. Actor: Logged-in (Registered) Users
 - b. Basic Flow:
 - i. Alternative Flow 1: If users are not logged in, they will see a prompt to 'log-in to comment' at the bottom of an individual post (and its connected comments). Clicking on it redirects them to log in/register
 - ii. Logged-in users will be able to fill in a comments form at the bottom of an a post's page. On submit, their comment will be attached to the bottom of the post
6. Edit/Delete Post
 - a. Actor: (Logged-in) Author of particular Post
 - b. Basic Flow: Authors of Posts will be able to click on a delete icon on their posts, that irreversibly deletes the icon and all its corresponding comments. They will be prompted for the confirmation of an irreversible action.
7. Search for Posts
 - a. Actors: All users

- b. Basic Flow: All users will be able to search for posts via a searchbar on the main forum page. On submit, they will be returned a list of forum posts that includes the words in the search (in title, body, tags or authors)
- 8. View all Own's Posts
 - a. Actor: Logged-in (Registered) Users
 - b. Basic Flow: Logged-in users will be given an option to navigate to a page that displays a list of all their posts.
- 9. Logout
 - a. Actor: Logged-in (Registered) Users
 - b. Basic Flow: Logged-in users have the ability to navigate to a page to logout of their account.

Use Case Diagram



Implementation Details

Front-end: React Redux Typescript

Back-end: Rails RESTful API with JWT authentication and authorization

Database: PostgreSQL

Deployment Platform: Render or Heroku

Models: Posts (Belongs to User, Has many comments), Comments (Belongs to User, Post), Users (Has many Posts, Comments)