CVWO Mid Submission Writeup

The aim of this to-do application is to keep track of tasks while maintaining user-friendliness.

Part 1A: Basic Use Cases

Login

Each application user will have their own account and password, which they will use to login into the application. A logged-in user will have unique privileges and available actions as compared to visitors who are not logged-in. Details on these actions are laid out below in each use case description.

Tasks

Tasks(also known as Microposts) are the main feature of this application.

Users may **create** new tasks, each with a text and recorded timestamp of creation. The new task will belong to them.

Users can **destroy** their own tasks when they are done with the tasks. Editing of tasks is currently not supported in our application.

Users

Users can **update** their passwords. Users can see other users via the **index** method. Tasks that belong to the users are displayed in reverse order of creation, which is done by a **show** action.

Groups

Users can **create** new groups when they create tasks that belong to one of them. Groups can be **updated**. Groups can be **destroyed** when there are no more tasks in that group.

Part 1B: Implementation

Model

Users has many tasks and groups. Groups has many tasks. Each of their models contains appropriate before filters and validations.

Controllers

Sessions, microposts, users will each have a controller. Users and groups cater to **create, update, destroy**. Sessions and Microposts cater to **create** and **destroy**.

Login

Logins are handled with a Session, which is **create**d when users login after passing the authentications and **destroyed** when users log out.

UI(Views)

The application uses CSS and Bootstrap for some basic UI customisation. Each GET request will have a view associated with it.

Extra templates which specifies layouts like footers and headers are available in a separate directory.

Part B: Execution Plan

Phase 1: Setting up and Planning

- Set up heroku
- Set up Github
- Task 1 on Tasks and Users
- Task 2 on Grouping of Tasks upon creation

Phase 2: Basic features

- Home page, signup page
- Login, sessions, and changing of password
- Sample user account
- Task implementation
- Group implementation

Phase 3: Tidying up design

- Styling of views and layouts
- Testing

Phase 4: Final Deployment to Heroku

Part C: Problems

1) I still have a weak understanding of Ruby on Rails(reading of API and why some code work the way they do) and how it ties in with HTML and CSS.

2) I have a problem deploying to Heroku for some reason and sometimes cloning and after self-testing, bundle installation during cloning of repositories causes a lot of command line error messages and requires a long time to solve them, some of them are still out there like outdated gems.

3) There is some confusion I have on a suitable model for Groups and what actions it's controller should support for the best user friendliness.