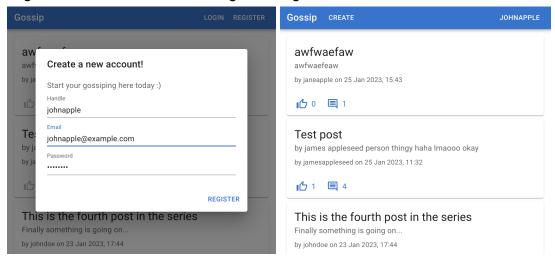
## CVWO Winter Assignment AY 2022/23

Gossip with Go Final Write-up

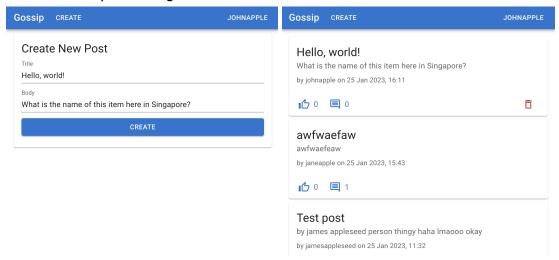
Koh Chan Hong A0254616A

## Usage

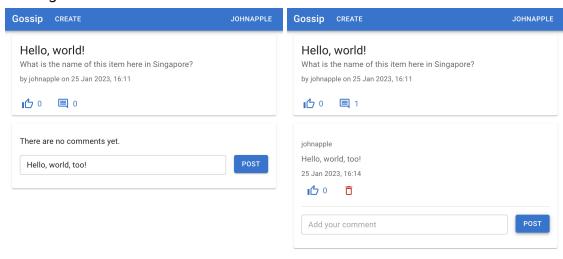
1. Register for a new account using the "Register" button.



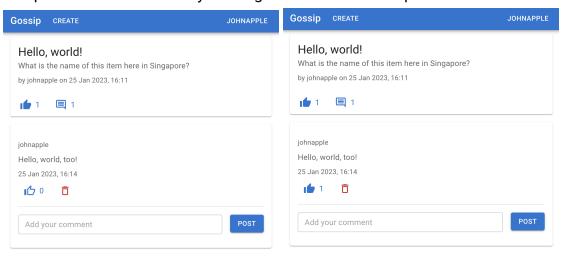
2. Create a new post using the "Create" button.



3. Comment on posts by clicking on the comment icon, entering your comment body and then clicking "Post".



4. Like posts and comments by clicking the like icon on the post or comment.



## Accomplishments

- Deployed to the <u>Fly platform</u> at <u>gossip-web.fly.dev</u> and <u>gossip-api.fly.dev</u>, which I have never done before. Learned how to use the command-line interface <u>flyctl</u> to deploy, modify and redeploy the cloud services.
- Used Docker to define how to build frontend. Multi-stage Dockerfile using the node image to first build the frontend to a static site then a nginx image to serve the files when the container is spun up.
- Designed code structure for Go program. Used cmd directory to represent executables which then call into the internal directory which contains the (HTTP) handler and database code for the business logic.
- Worked with <u>Material UI</u> library to quickly prototype the user interface with (future) theme and design system capabilities. Worked with <u>React Query</u> for networking-related code.

## **Future Improvements**

- Did not manage to develop a lot of the features laid out in my execution plan. This was due to a combination of mismanagement of time and underestimation of the duration to build each feature. A non-exhaustive list of missing features is as follows:
  - Media support (e.g. user avatars, images in posts)
  - Editing of posts and comments
  - Tree-based structure for comments (similar to Reddit; reply to parent comments)
  - Ability to view and manipulate (for privileged users) thread history
  - Allow administrators to add and remove moderators
- Should have done some planning of the user interface design before starting to build the app.
  Ended up trying to design and build the user interface while figuring out state management which got confusing and complicated quickly.