Semantic Versioning

A basic automated semantic version release that helps to release a new version with its release notes when code is pushed on main branch.

Given a version number MAJOR.MINOR.PATCH, increment the:

PATCH -> fix: version when you make backward compatible bug fixes.
MINOR -> feat: version when you add functionality in a backward compatible manner.
MAJOR -> BREAKING CHANGE: version when you make incompatible API changes.

Commit convention for main branch:

fix: bug fix description for a patch release.
feat: new feature description for a minor release.
BREAKING CHANGE: description of breaking change for a major release.

Example: `git commit -m "fix: YOUR MESSAGE"`

Other useful conventions:

```
1. Documentation:
    docs: update documentation
    docs: add README.md

2. Testing:
    test: add unit tests
    test: update integration tests

3.Refactoring:
    refactor: simplify code
    refactor: rename variable for clarity

4. Chore:
    chore: run linter
    chore: update dependencies

5. Style:
    style: fix formatting issues
    style: update CSS styling

6. Build:
    build: configure webpack settings
    build: update build scripts

7. Performance:
    perf: improve algorithm efficiency
    perf: optimize database queries

8. Dependency Management:
    deps: update third-party library
    deps: bump version of dependency

9. Localization/Internationalization:
    i18n: translate error messages
    i18n: add support for French

10. Security:
    security: fix security vulnerability
    security: update dependency to address security issue
```

React Native Expo Dockerization

This solution is slightly different from the usual, as all the libraries/dependencies are on your local host. The Docker container provides a runtime environment. *Do not add any files in the 'node_modules' directory to '.gitignore'.*

Preparation

1. Install and run Docker Desktop from Docker Get Started.
2. Install the Expo Go app on your phone from Expo Client.
3. Obtain your ip address. **Note:** *Do not use a browser to search for your IP address, as it might give you an incorrect result.*

- Open Terminal and enter the following command:
  Windows:

  ```
  $ ipconfig
  ```

  Linux:

  ```
  $ ifconfig
  ```

  MacOS:

  ```
  $ ipconfig getifaddr en0
  ```

- Example output: `10.237.206.64` (This is a UofS-Secure private address.).

Run Docker Container

1. In the directory `term-project-2024-team-1/front-end`, run the following command:

```
$ docker-compose up --build
```

Opening the Front-End

Your Phone and computer should be connected to the same Network (LAN).

1. Open a web browser and enter the following URL: `exp://10.237.206.64:8081`. *(Replace `10.237.206.64` with the IP address you obtained earlier.)*
2. This should automatically open the Expo Go app and start loading the front-end.