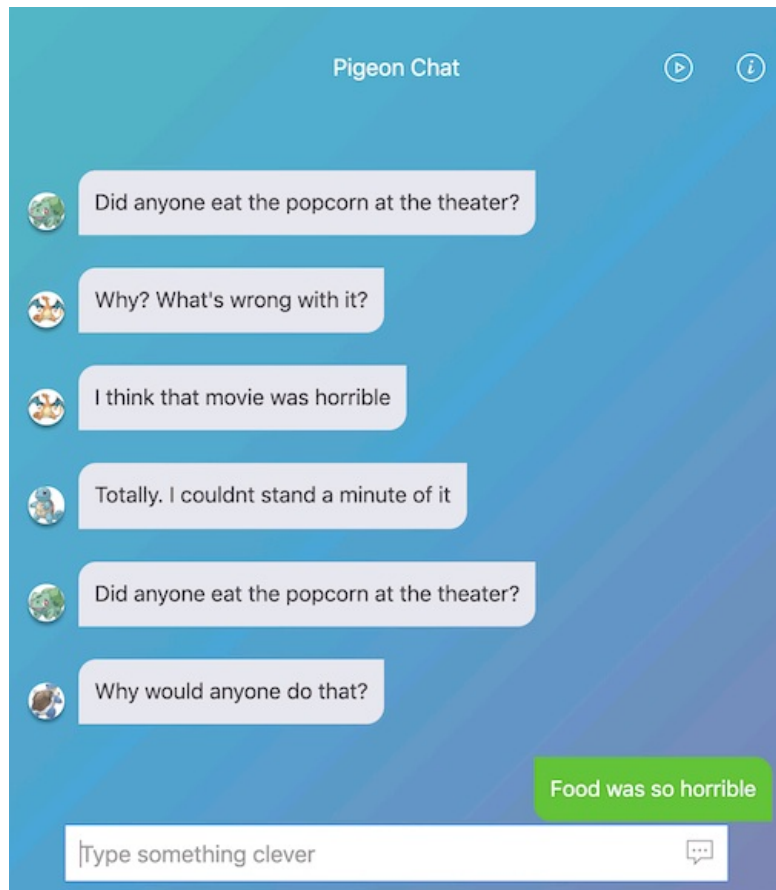


Pigeon Chat UI



Main user workflows:

- User login
- Displays all existing messages in the chatroom
- Add new message(s) by typing in the message box and hitting "enter" or the submit button
- Visualize other users' info by clicking on the info icon on the top right corner
- Return to chat screen from info screen by hitting the back button on the top left
- Localization between English and Chinese

Feature details

- Hover-over other users' icons to see expanded view of icons
- Immediately upon adding a new message, a small loading icon will appear on the right side of the new message
- Loading icon will disappear once message is added successfully (simulated) on the server side
- Hitting the play button will add multiple messages from other users
- Use the English/Chinese buttons on the login screen to toggle languages
- Use the <> button on the top right side of the chat screen to toggle languages

Technical decisions and caveats

- Given the time constraint, uikit design system was adopted to provide basic icons and styling
- API error handling was not implemented (see comments in messageApi, userInfoApi, or authenticationApi)
- State is maintained in local storage via redux-persist library, mainly to persist logged in user info

Next steps

- Testing
 - Unit testing of React components as well as redux actions/reducers etc
 - UI automation tests with Selenium
- UI/UX Features
 - Improve transition between chat and info screens, potentially with TransitionGroup
 - Implement retry mechanism for unsuccessful attempts to add new messages (ex. no connection)

- Visual indicator (ex. "..." in iMessage) while user is typing in the message box
- Tech Improvements
 - Refactor language localeUtilities to be more configurable and scalable to accomodate more languages
 - Implement error handling for both globally (ex. default popup) and locally within components (ex. error banner)

To install

Clone this repo with

```
git clone git clone git clone https://github.com/bcfchen/pigeon.git
```

cd into the pigeon/client folder and install npm packages by:

```
npm install
```

To run

Check that you're in the pigeon/client folder and run the project by

```
npm start
```

The page should automatically open up in your browser at

```
localhost:3000/chat
```

Main libraries & services used

- React/Redux
- uikit for design system and icons
- PropTypes for component property type checking
- react-i18next for localization