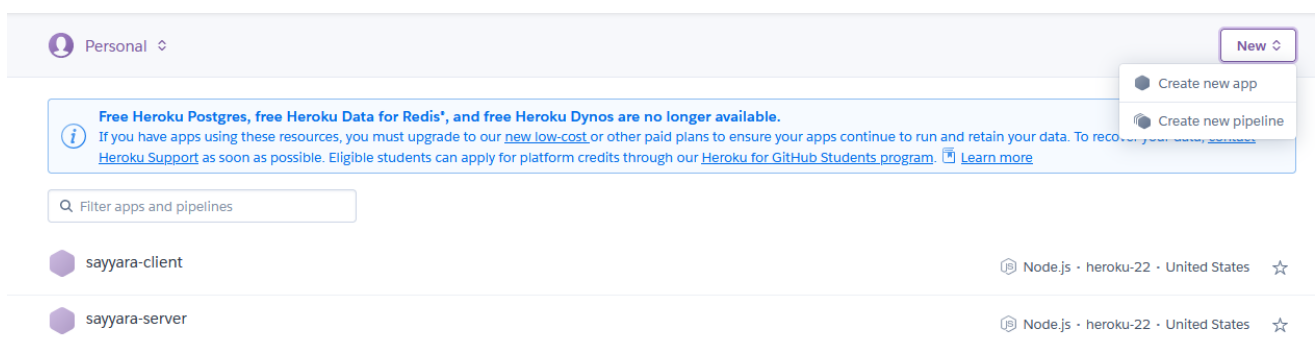# Deployment

This project during development was hosted on Heroku, so deployment instructions will be for that vendor.

As a disclaimer, use of other vendors may require adjustments to the project and deployment procedure.

Application

The frontend and backend portions of the application must be deployed in separate containers as they are completely independent of each other. To connect the two, ensure that `API_URL` in `./client/src/services/config/config.json` is set to the URL of the server container. In our case, it was `https://sayyara-server.herokuapp.com/` but yours may be different.

Since both the frontend and backend are in the same repo, a Procfile is required to specify which one to deploy.

When deploying the frontend the Procfile should contain the following:

```
web: npm run start:client
```

and for the backend:

```
web: npm run start:server
```

These reference the scripts in `package.json` located in the root directory.

Via GitHub

If the app's repo is hosted on GitHub, Heroku can directly deploy a specific branch of the repo through a GUI.

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more.

Choose a branch to deploy

⑂ main   ◇   **Deploy Branch**

Via CLI

The steps below assume you have Heroku CLI set up.

1. Adding Heroku remotes

```
git add remote add heroku-client [URL to Heroku client repo]
git add remote add heroku-server [URL to Heroku server repo]
```

2. Deployment

```
# Deploying the frontend
< Update the profile to contain web: npm run start:client >
git add .
git commit -m "updated Procfile"
git push heroku-client main

# Deploying the backend
< Update the profile to contain web: npm run start:server >
git add .
git commit -m "updated Procfile"
git push heroku-server main
```

Automated Deployment?

Since the frontend and backend are located in the same repo (due to course constraints), we found it difficult to automate the deployment process due to the presence of the Procfile. However, if split into separate repos, a GitHub actions file like this could work:

```
name: deploy_heroku
on:
  push:
    branches:
      - main
jobs:
  deploy_prod:
    runs-on: ubuntu-latest
```

```
    steps:
      - uses: actions/checkout@v3
      - uses: akhileshns/heroku-deploy@v3.12.12
        with:
          heroku_api_key: ${{secrets.HEROKU_API_KEY}}
          heroku_app_name: "YOUR APP's NAME"
          heroku_email: "YOUR EMAIL"
```

or setup automatic deployment through Heroku:

Automatic deploys

Enables a chosen branch to be automatically
deployed to this app.

> You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please
> follow the instructions here.

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this
branch is always in a deployable state and any tests have passed before you push. Learn more.

Choose a branch to deploy

    ⑂ main   ⇕

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Enable Automatic Deploys