CSCI 5308: Advance Topics in Software Development, Winter 2022

Document Type: Build Documentation

Submitted By: Group 17

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Build Documentation

The project repo is at - https://git.cs.dal.ca/courses/2022-winter/csci-5308/group17

Steps to build the project on local machine:

Prerequisites:

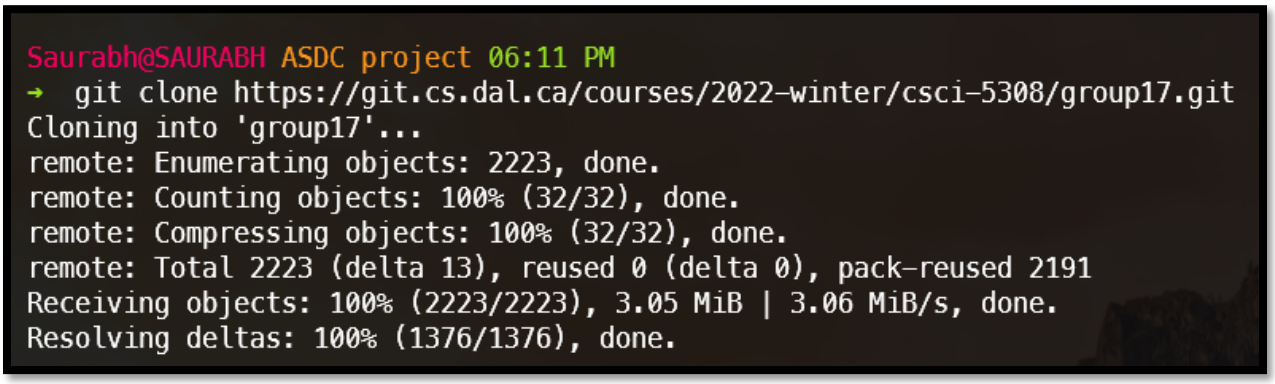
- Node 16.14.0 (download from https://nodejs.org/download/release/v16.14.0/).
- Make sure Node is added to the PATH variable of the system.

Step 1: Installing yarn globally

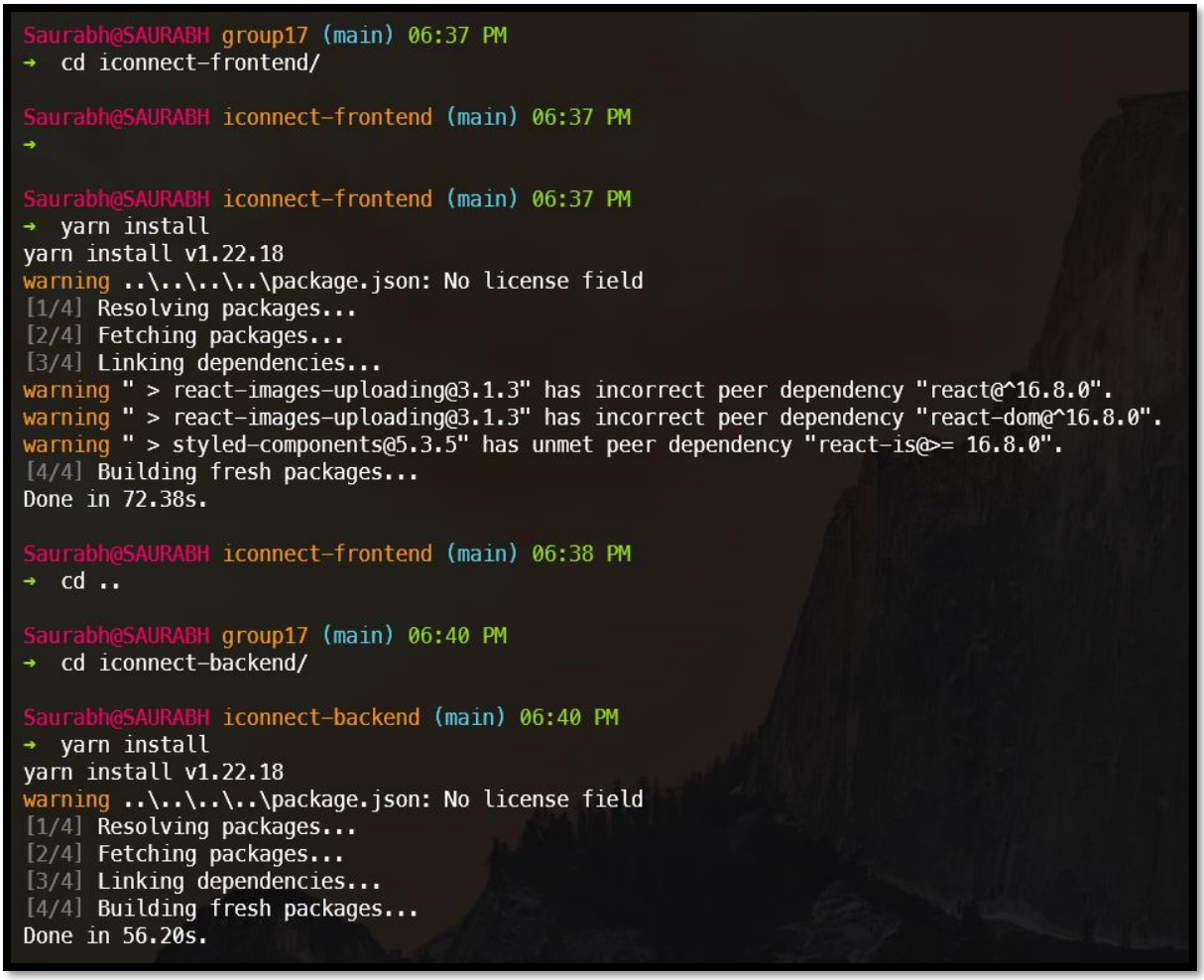
- Open any shell and run the command:
  ➜ npm i -g yarn

Step 2: Clone the project repo

- Navigate to a suitable folder on your machine
- Clone the repo using either the HTTPS or SSH url using the command:
  ➜ git clone https://git.cs.dal.ca/courses/2022-winter/csci-5308/group17.git



- By default, the **main** branch is checked



Step 3: Change directory to the root of the project

- After cloning the repo, use the command:
  → cd group17/

Step 4: Installing node_modules for frontend and backend

- Change directory to iconnect-frontend
  Run the command **→ yarn install**

- Change back to the parent directory and go to iconnect-backend
  Run the command **→ yarn install**

  This installs all the required node_modules (dependencies) for running the project.

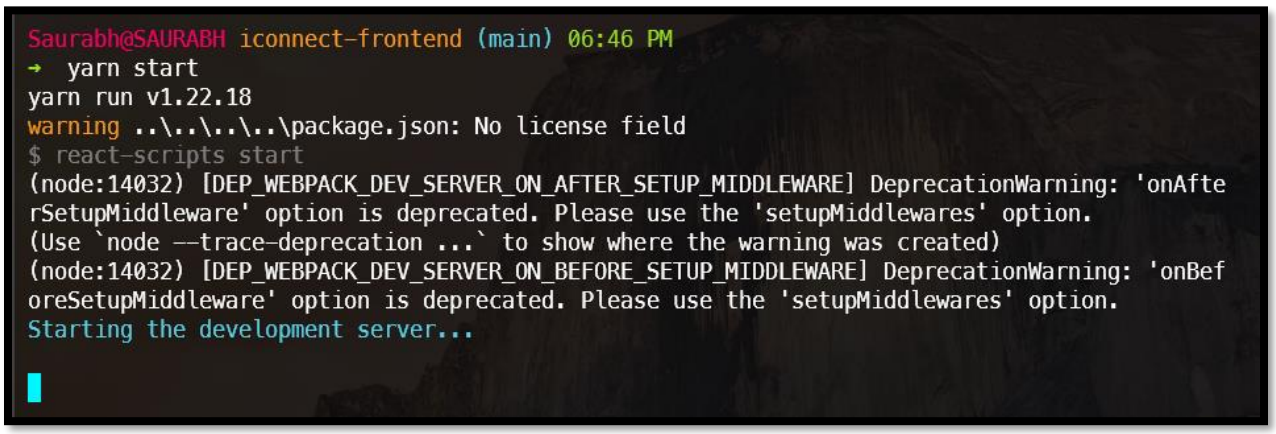
Step 5: Start backend development server

- From the root directory, change directory to iconnect-backend/ and run the command:
  → yarn start

- This starts the backend node server on the local 3200 port

Step 6: Start frontend development server

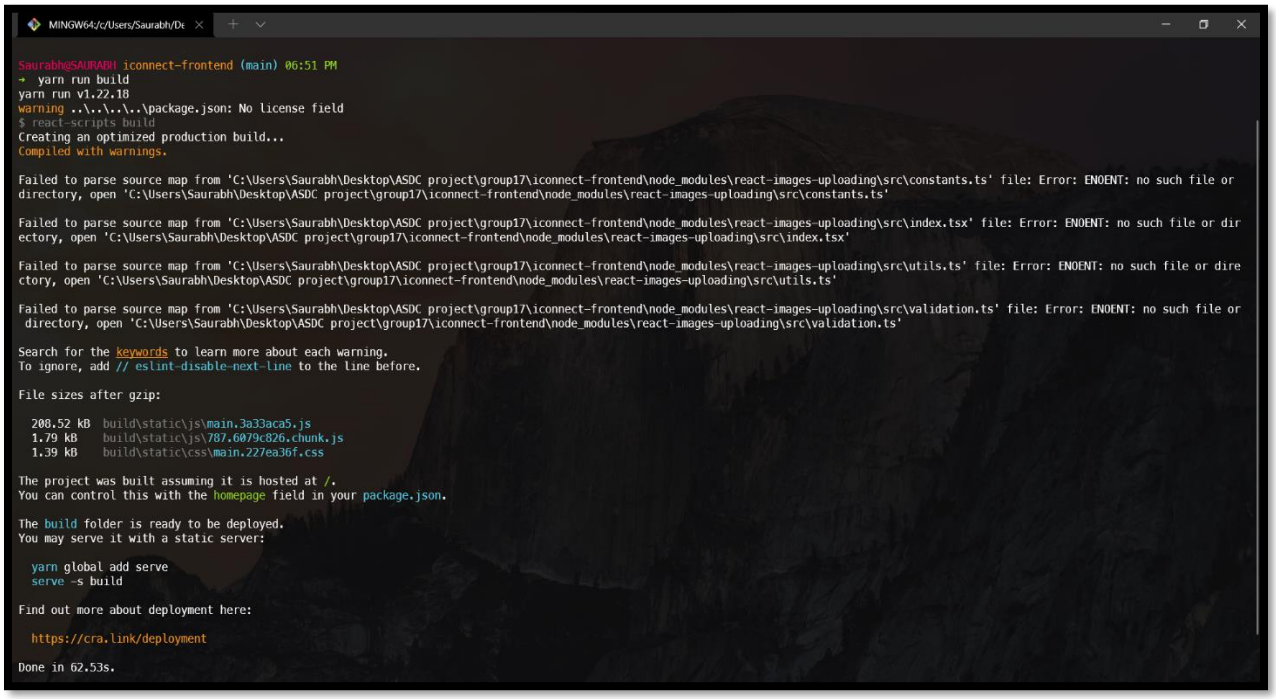
- From the root directory, change directory to iconnect-frontend/ and run the command:
  → yarn start



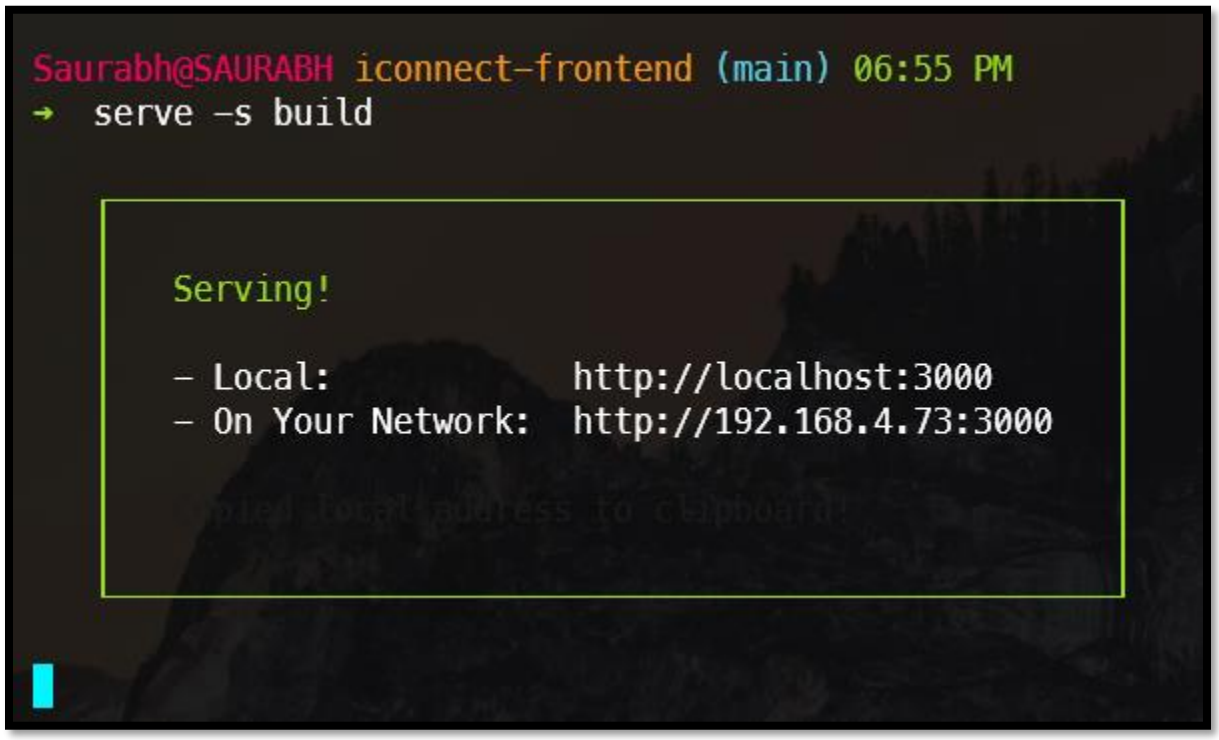
- This starts the frontend react app on port 3000
- It will open your default browser with the homepage up

Step 7: Build and serve the frontend in case you want to run the production app

- In case you want to product an optimized build to serve
- Install the “serve” node package using the command “**npm i -g serve**”
- Then change directory to iconnect-frontend/ and run the command **”yarn run build**”



- This creates a production ready build of the app which can be served from the local machine using the command:
  - ➔ “**serve -s build**”

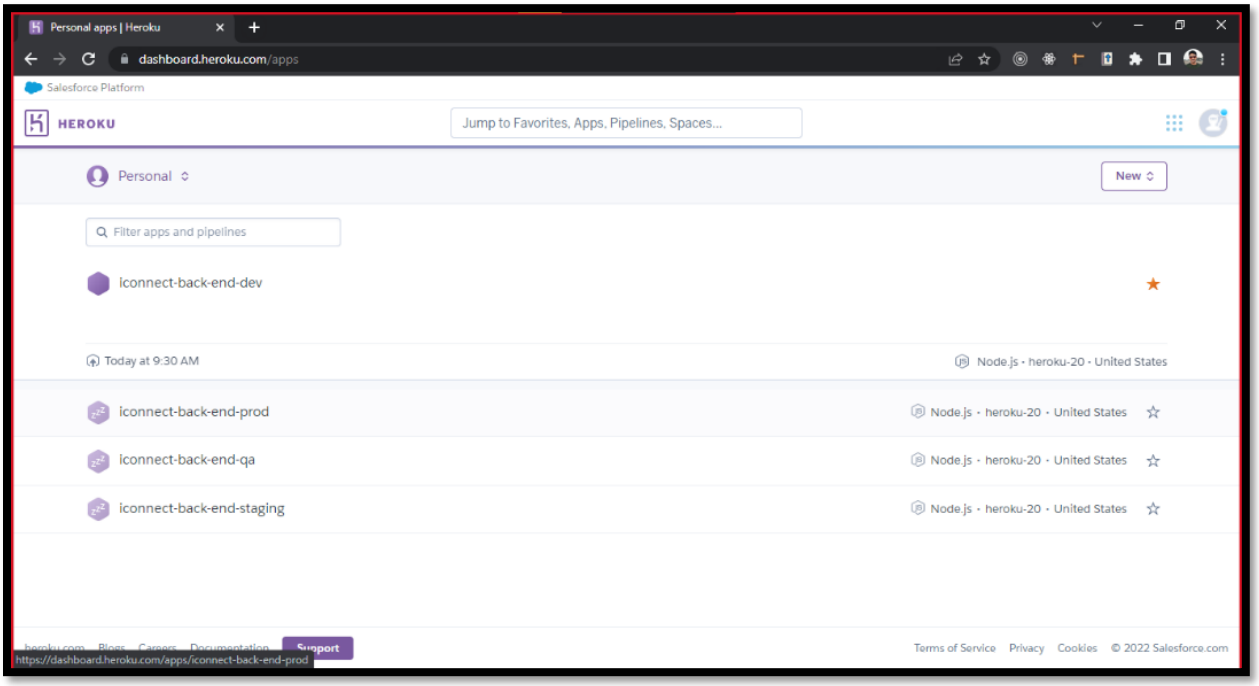


- The production build uses the backend server

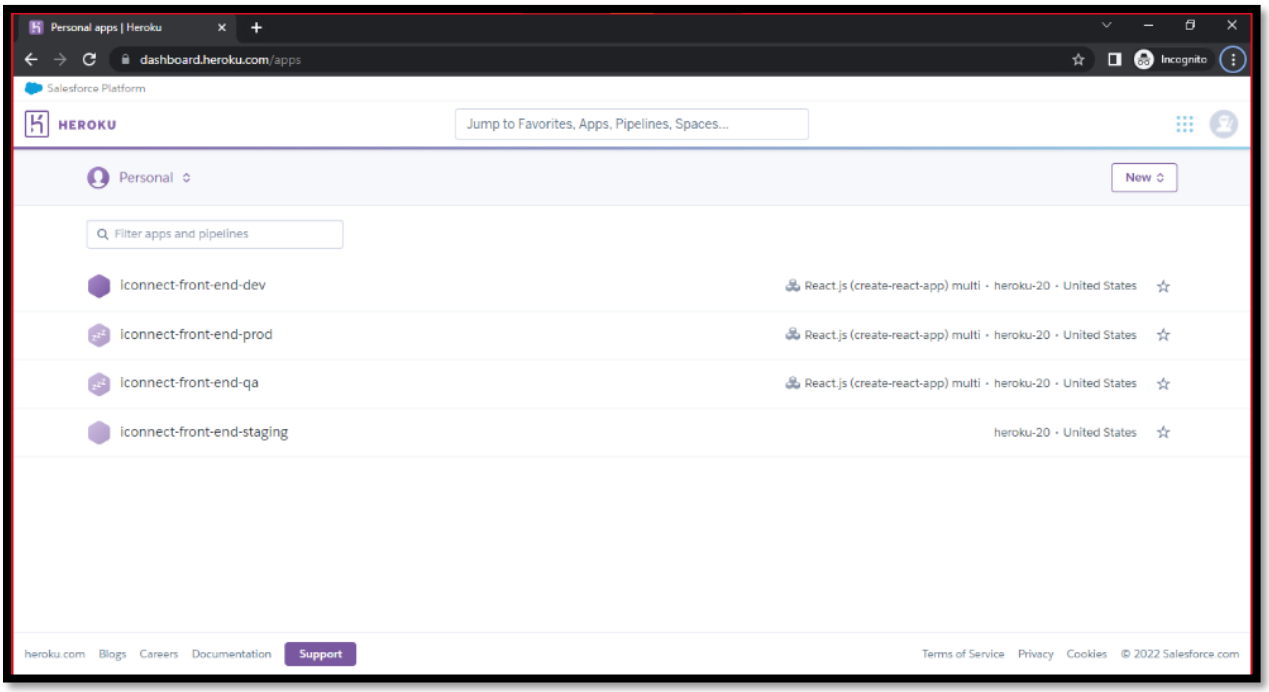
Deployment in the production environment

- There are 8 production environments set (4 for backend and 4 for frontend)
- Backend and frontend both have their own “dev”, “qa”, “stage”, and “prod” environment.
- The deployment environments match the branch names in our repo. (main branch deploys to prod env)

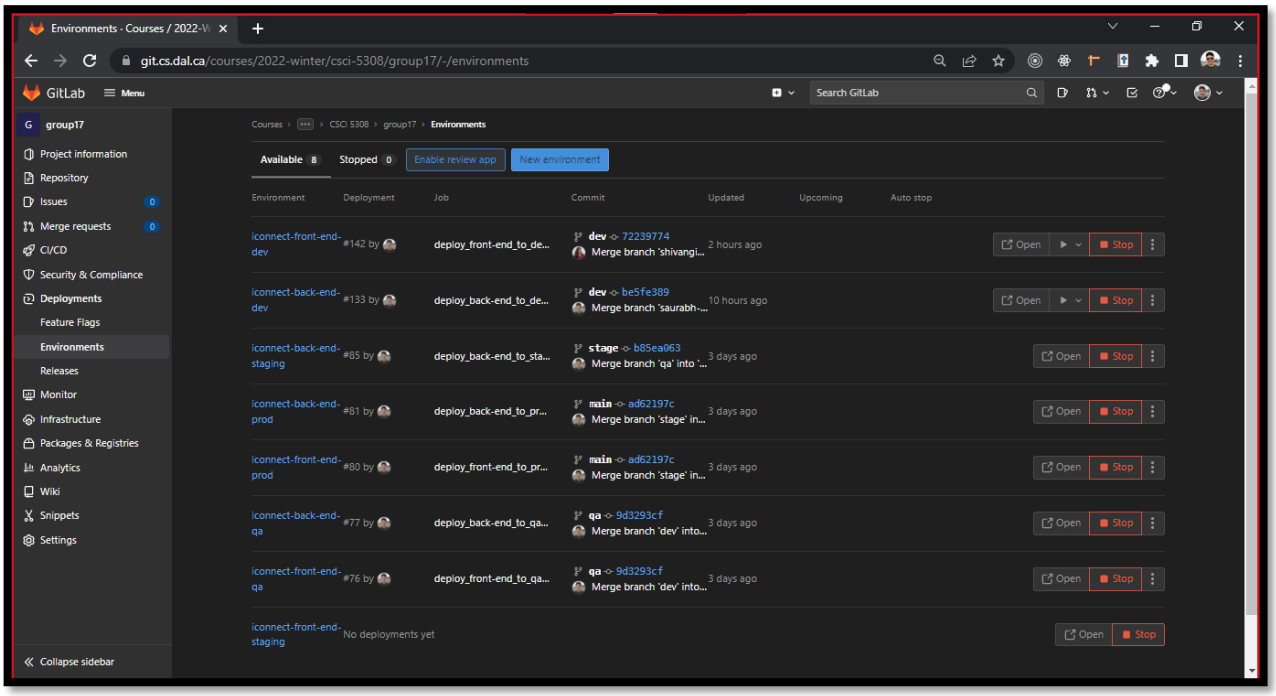
Heroku environments (backend)



Heroku environments (frontend)



Deployment environments in GitLab (for ease of access to the Heroku apps)



Final Production URL:

https://iconnect-front-end-prod.herokuapp.com/login