CVWO assignment -- A0217443J Chang Chuan Hao

Basic Use Cases

- CRUD Tasks and Categories, each task belongs to a category to allow browse by category

Execution plan

Deployment:

- To be deployed on heroku, Rails back end as root dir "task-api", React root nested in rails dir as "task-app". Run "npm init –y" and "yarn install" to create package.json and yarn.lock for heroku to install react/yarn dependencies
- Development environment x64 windows 10 build 18363, might need npm install cross-env to resolve linux commands

Rails:

- Rails api with --api, React frontend nested within rails root
- generate models, controllers for Task, Category
- Task schema: {title: string, category: belongs_to, done: boolean}
- Category schema: {name: string, task: has_many}
- Communication with front end via jsonapi
- Reconfigure port to 4000 in puma.rb for easier deployment
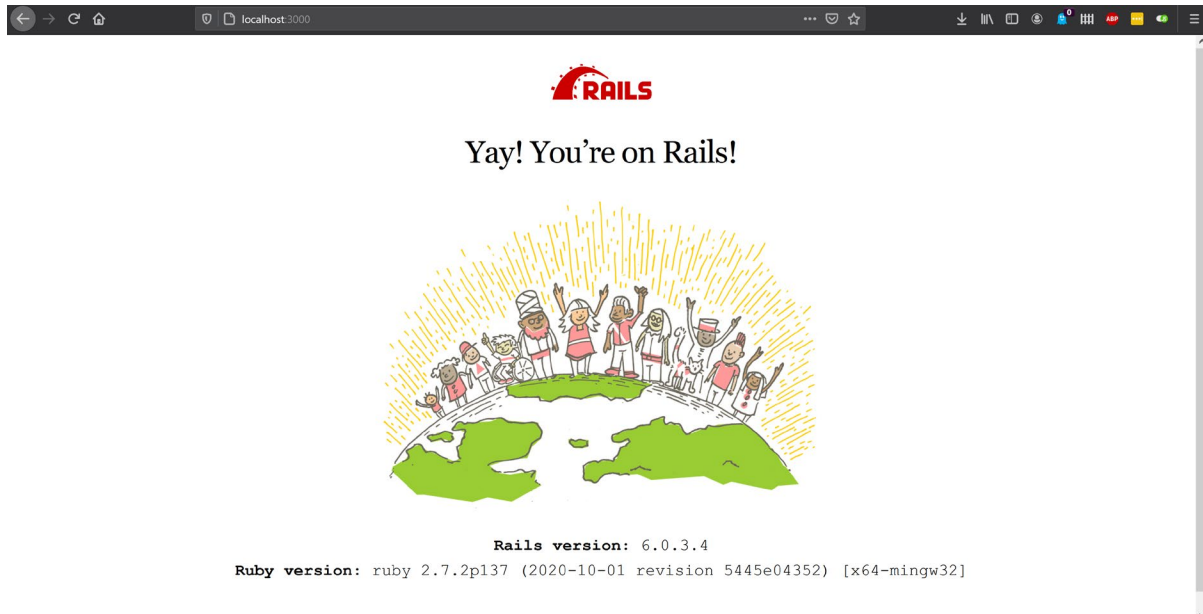
React:

- Initialize with create-react-app
- React-bootstrap to create Navbar elements
- React-router-dom to handle routing in react front end
- Axios to handle communication with backend
- Paths to be created:
    1. '/' root: welcome page
    2. '/categories' categories index: view all categories
    3. '/categories/new' and 'categories/update/:id' Create/Update category page
    4. '/categories/:id' Index of all tasks under category of id ":id"
    5. '/tasks/' Index of all tasks
    6. '/tasks/update/:id' and '/tasks/new' Create/Update task page

Errors

- psql fe_sendauth: no password supplied in "rails server"
    1. No solutions found, sql server changed to sqlite3 for development
- "Implement a tagging system to organise your tasks so that they are easy to search for" unclear – search as in regex/ransack vs category system?
    1. Interpreted as category system – common to-do apps do not include search functions but include category system
- "PORT not recognized error" in "heroku local –f Procfile.dev"
    1. npm install cross-env
    2. Procfile.dev: web: **cross-env** PORT=3000 yarn --cwd task-app start
- "cannot resolve module babel-loader" in "heroku local –f Procfile.dev"
    1. Tried "npm install babel-loader –save", FAILED
    2. "npm install" on admin cmd prompt, succeeded
- "yarn: not found" in heroku nodejs deployment
    1. "npm init –y"

2. "yarn install"
- Axios.then executing before rails back end completes request
   1. Seems to be solved by making onclick async with await on axios before redirecting

Proof of installation

Proof of final product

Task manager

Create new task

■ Test task   Edit   Delete

Task manager

Enter category name

Create   Cancel