

San Francisco State University

CSC 648 - 848

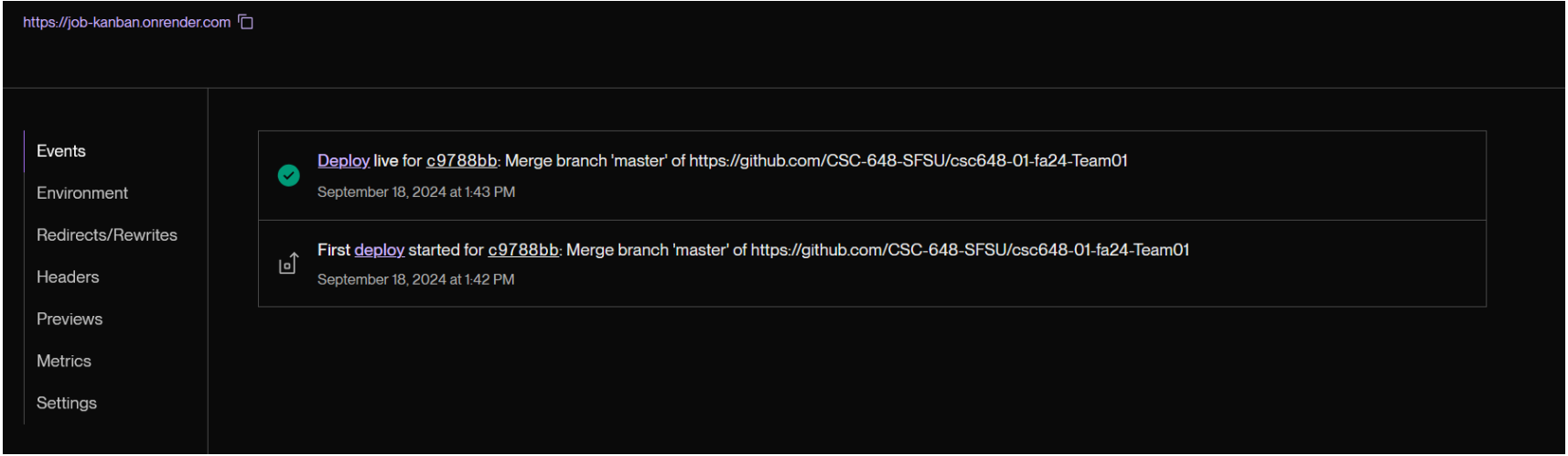
Milestone 0 Submission Form

Section 01 Team 01

Team members

Name	Role
Rishita Meharishi	Team Leader
Luai Almaznai	Frontend Lead
L Chow	Backend Lead
Zaw Win Tun	Scrum Master
Yee Yang	Github Master

Credentials

Website URL	https://job-kanban.onrender.com/
Cloud VM instance	<div><p>For Milestone 0, we used Render's free static site service, which does not provide SSH access. SSH will be available in Render's web service when we deploy our backend in later milestones.</p></div>
Database URL	<div><p>Port: 5432</p><p>Database name: db_648psql</p><p>Database username: db_648psql_user</p><p>Password: rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ</p><p>Database URL:</p><p>postgresql://db_648psql_user:rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ@dpg-cr12k3aj1k6c73fksb00-a.oregon-postgres.render.com/db_648psql</p><p>PSQL command:</p><p>PGPASSWORD=rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ psql -h dpg-cr12k3aj1k6c73fksb00-a.oregon-postgres.render.com -U db_648psql_user db_648psql</p><p>Render suspends free database instances after 72 hours of inactivity (Please notify us if this happens)</p></div>

Tech Stack

Server Host	Render Free Instance, 512 MB RAM, 0.5 CPU
Operating System	Ubuntu 22.04 LTS
Database	PostgreSQL 16.4
Web Server	Render
Frontend Framework	React
Frontend Design	Material UI
Server-Side Language	TypeScript
Web Application Framework	Express
IDE	Visual Studio Code

Tech Stack Familiarity

Tech stack <div></div>	Frontend Framework	Frontend Design	Backend Framework	Language	Database	Deployment
Name	React	Material UI	Express	TypeScript	PostgreSQL	Render
Rishita Meharishi	2	0	0	1	0	0
Luai Almaznai	1	0	0	1	0	0
L Chow	0	0	1	1	0	0
Zaw Win Tun	1	0	1	1	0	0
Yee Yang	2	0	4	1	4	5

Group Communication

Weekly Meeting Schedule	Monday 5:00 ~ 6:45 pm Wednesday 2:00 ~ 3:00 pm
Communication Channel	Text messages & Discord

Study Plan		
Tech stack	Who	Expected goal by the next 4 weeks
React	Rishita Luai Zaw	Weeks 1-2: learning React basics (components, JSX, props, and state). Build small projects (e.g., a to-do list) to practice. Weeks 3-4: begin reviewing routing (React Router) and component lifecycle methods. learning resource: https://react.dev/learn
Material UI	Rishita Luai Zaw	Week 1-2: Learn the basics of Material UI components (Buttons, Grids, etc.) and themes. Week 3-4: Integrate Material UI into React projects and explore advanced components like modals, and tooltips. learning resource: https://mui.com/material-ui/getting-started/usage/
TypeScript	Together	Week 1: Focus on understanding TypeScript basics, including types, interfaces, and generics. Weeks 2-3: Convert small JavaScript applications to TypeScript to practice. Week 4: Learn how to integrate TypeScript with React. learning resource: https://www.typescriptlang.org/docs/ https://www.typescriptlang.org/docs/handbook/intro.html
PostgreSQL	L Yee	Week 1: Review relational database concepts and practice basic SQL queries. Week 2: Learn PostgreSQL-specific features and install it locally. Week 3: Practice designing tables and relationships for a simple project. Week 4: Explore PostgreSQL functions and triggers. learning resource: https://www.postgresql.org/docs/ https://www.sqltutorial.org/
Render	L Yee	Week 1: Learn about cloud deployment concepts and CI/CD basics. Week 2: Review Render's documentation and deploy simple frontend and backend apps. Week 3: Practice automating deployments using GitHub Actions. Week 4: Test deployments and review best practices. learning resource: https://render.com/docs https://render.com/docs/deploying-apps
Express	L Yee	Week 1: Review Node.js basics, including modules and the event loop. Week 2: Explore Express fundamentals (routes, middleware, and error handling). Week 3: Build simple REST APIs and integrate them with a database. Week 4: Review authentication and authorization techniques using Express. learning resource: https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express_Nodejs/Introduction