# San Francisco State University

# CSC 648 - 848

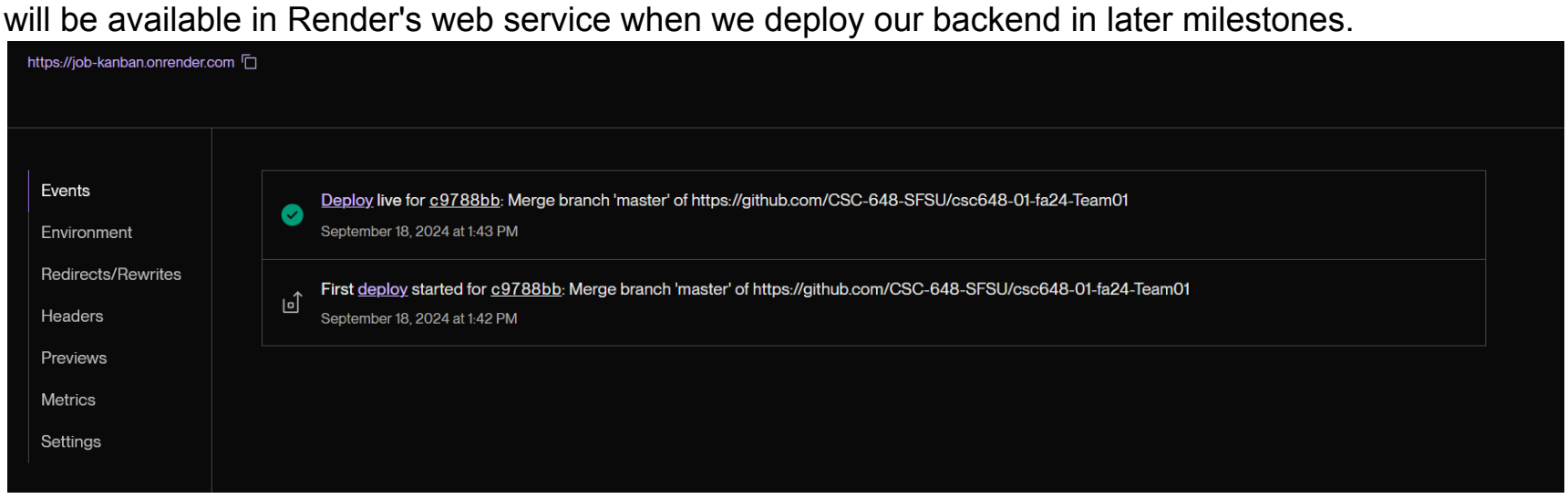
# Milestone 0 Submission Form

# 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** | 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.   |
| **Database URL** | Port: `5432`<br>Database name: `db_648psql`<br>Database username: `db_648psql_user`<br>Password: `rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ`<br><br>Database URL:<br>`postgresql://db_648psql_user:rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ@dpg-crl2k3aj1k6c73fksb00-a.oregon-postgres.render.com/db_648psql`<br><br>PSQL command:<br>`PGPASSWORD=rlpjmT5chmROqBKFHmDrx3zLbSA8RbuZ psql -h dpg-crl2k3aj1k6c73fksb00-a.oregon-postgres.render.com -U db_648psql_user db_648psql`<br><br>Render suspends free database instances after 72 hours of inactivity ( Please notify us if this happens) |

## 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 |
| **Programming Language** | TypeScript |
| **Web Application Framework** | Express |
| **IDE** | Visual Studio Code |

## Tech Stack Familiarity

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