

User Manual: System Setup and Running Instructions

Prerequisites

Before running the project, ensure the following are installed on your system:

- **Node.js** (version 16 or higher recommended)
[Download here](#)
- **Yarn** package manager
Install via npm:

```
npm install --global yarn
```

Installation & Setup Instructions

1. Clone the Repository

Clone the project repository:

```
git clone https://github.com/COS301-SE-2025/EL0-Learning.git
```

2. Install Backend Dependencies

From the project **root directory** (../COS301-SE-2025/EL0-Learning), run:

```
npm install
```

3. Install Frontend Dependencies

```
cd frontend  
yarn install
```

Running the Project

1. Start the Backend Server

From the **root directory**, run:

```
node backend/src/server.js
```

2. Build and Run the Frontend

Navigate to the frontend directory:

```
cd frontend
yarn build      # Builds the frontend for production
yarn run dev    # Starts the frontend in development mode
```

Your frontend app will run on <http://localhost:8080>, click on this provided link at this step in your preferred web browser.

Troubleshooting Tips

- Make sure all environment variables are correctly set in `.env` files (both frontend and backend if applicable).

If you face issues with `yarn`, try deleting `node_modules` and `yarn.lock`, then reinstall:

```
rm -rf node_modules yarn.lock
yarn install
```

Final Notes

Once both servers are running:

- The frontend should communicate with the backend at the expected base URL.
- Ensure CORS is properly configured on the backend to accept frontend requests.
- Database and external services (e.g., Supabase) must also be properly initialized.