MCA Final Year Project Setup Guide

Project Structure

ZIP File Name: `christo_mca_final_year_project-main.zip`
After extracting the zip file, you will find two main folders: - `front-end` -
`back-end`

Front-End (UI) Setup

Prerequisites

- Node.js installed

- npm (comes with Node.js)

- VS Code (recommended for editing and running the project)

Steps to Run UI

1. **Extract the ZIP file**
   Locate and extract `christo_mca_final_year_project-main.zip`.

2. **Open VS Code**

   - Option 1: Open VS Code first and then open the project folder.
   - Option 2: Navigate to the project folder and right-click > "Open with VS Code".

3. **Navigate to the `front-end` Folder**

   - Open the `front-end` folder in VS Code.

4. **Install Dependencies**

   - Open the terminal in VS Code (make sure it's in the `front-end` directory).

   - Run the following command:

     `npm install --force`

   - This command installs all the required packages listed in `package.json`. The process may take a few minutes depending on your internet speed.

     For installation guidance, refer to *"Set-up and Run Using Download as .zip"* (Pages 84–88) in the project documentation.

5. **Start the Front-End Server**

- Once the installation is complete, run:

  `npm run dev`

- The application will be available at `http://localhost:3001`.

6. **Access the Application**

   - Open your browser and visit `http://localhost:3001` to view the front-end of the application.

Back-End (Server) Setup

Prerequisites

- Node.js installed

- npm

- VS Code

- MongoDB Compass (For local database management)

  Refer to *"Setting Up MongoDB Compass"* (Pages 62–66) for installation and configuration steps.

Steps to Run Back-End

1. **Extract the ZIP file**
   - Locate and extract `christo_mca_final_year_project-main.zip` (if not already done).
2. **Open VS Code**
   - Use the same method as in the UI setup to open the project folder.
3. **Navigate to the `back-end` Folder**
   - Open the `back-end` folder in VS Code.
4. **Install Dependencies**
   - Open the terminal in VS Code (make sure it's in the `back-end` directory).
   - Run the following command:
     `npm install --force`
   - This installs all required packages from the `package.json` file.
     For installation guidance, refer to *"Set-up and Run Using Download as .zip"* (Pages 84–88) in the project documentation.
5. **Start the Back-End Server**
   - After installation, run:
     `npm run dev`
   - The back-end server will start on `http://localhost:8001`.

6. **Verify Server is Running**
   - You should see console logs indicating that the server is running and connected to MongoDB.

Summary

Part	Port	URL
Front-End	3001	`http://localhost:3001`
Back-End	8001	`http://localhost:8001`

Ensure both the front-end and back-end are running concurrently for the application to function properly.