COURSE RECOMMENDATION WEB APP

“User interaction and progress-based recommendation app to tailor your custom learning path.”

INSTALLATION MANUAL

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Date: 16th May to 30th May 2025

Installation Guide

Option 1: Using Docker (Recommended)

Prerequisites

- Docker
- Docker Compose

Steps

1. Clone the repository

```
git clone https://github.com/IcodeG00D/Course-Recommendation-Web-App.git
```

```
cd Course-Recommendation-Web-App
```

move to the root folder directory where Docker-compose.yaml is present and then build containers

2. Build and run the containers

```
docker-compose up --build
```

- Frontend: http://localhost:3000 (For UI)
- Backend API: http://localhost:5000

Notes

Incase any issue occurs during container build:

- Start the Docker Desktop App first, if Container shows any error while building.
- Try removing old volumes , and try again.

```
docker-compose down -v
```

- Look for Docker-compose.yaml file should be there

Option 2: Manual Installation (Without Docker)

Prerequisites

- **Backend:**
  - Python 3.8+
  - pip
  - PostgreSQL installed and running
- **Frontend**:
  - Node.js and npm

Backend Setup (Flask + PostgreSQL)

1. Navigate to the backend directory (if applicable):

```
cd backend
```

2. Create and activate a virtual environment:

```
python -m venv venv
source venv/bin/activate  # On Windows: venv\Scripts\activate
```

3. Install required Python packages:

```
pip install -r requirements.txt
```

4. Configure PostgreSQL and ensure credentials are set via environment variables or .env.
5. Run the Flask server:

```
python app.py
```

Frontend Setup (React)

1. Navigate to the frontend directory:

```
cd frontend
```

2. Install React dependencies:

```
npm install
```

3. Start the frontend development server:

```
npm start
```

Notes

- Ensure the backend API is running on port 5000 for the frontend to fetch recommendations and enrollment data correctly.
- If using Docker, you do not need to have Node.js or Python installed locally — all dependencies are managed inside containers.
- Database schema should be set up before running the backend. Consider using a migration tool or provide SQL schema manually.