

Music Recommender – Installation Guide

Prerequisites

- Windows 10 or later
- Internet connection (for Spotify API)
- One of the following installation methods:
 - Docker Desktop
 - Python and Node.js

Method 1: Docker Installation (Recommended)

1. Install Docker Desktop.
2. Ensure docker and docker compose are installed correctly.
 - `docker --version`
 - `docker compose --version`
3. Clone and run:
 - `git clone https://github.com/Shuu-55/Music_Recommender_JTP.git`
 - `cd Music_Recommender_JTP`
 - `docker compose up --build` (or `docker compose up`)
4. Access the application at:
 - Frontend: <http://localhost:80>
 - Backend API: <http://localhost:8000>

Method 2: Manual Installation

1. Install Prerequisites (Python and Node environments).
2. Ensure python and node.js are installed.
 - `python --version`
 - `node --version`
 - `npm --version`
3. Setup Backend.
 - `cd backend`

4. Install dependencies.
 - `pip install -r requirements.txt`
5. Start Backend.
 - `uvicorn main:app --reload`
6. Setup Frontend.
 - `cd frontend`
 - create `.env` file (add the spotify credentials)
7. Install dependencies.
 - `npm install` (or `npm i`)
8. Start Frontend.
 - `npm run dev`
9. Access the application at:
 - Frontend : <http://localhost:5173>
 - Backend : <http://localhost:8000>

Common Issues

1. Port Conflicts
 - Close other applications using ports 80, 8000, or 5173
 - Or change ports in [docker-compose.yaml](#)
2. Backend Connection
 - Verify backend is running
 - Check `.env` configuration
 - Swap the `.env` configuration with the localhost configuration in the `App.jsx` if running locally without Docker.
3. Docker Issues
 - Restart Docker Desktop
 - Run `docker compose down` then `docker compose up`
4. API Issues
 - Spotify's API allows upto 1000 requests per day.