Homework Wiki

Getting Started

Prerequisites

Ensure you have Python 3.11+ and Node.js 20+ installed on your system before proceeding.

Create python environment

1. Create a virtual environment:

```
python3 -m venv venv
```

2. Activate the virtual environment:

- On macOS/Linux:

```
source venv/bin/activate
```

- On Windows:

```
.\venv\Scripts\activate
```

Run backend (FastAPI)

1. Install dependencies:

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

2. Run the FastAPI server:

```
uvicorn api.index:app --reload
```

3. The API will be available at http://localhost:8000

Run frontend (NextJS)

> **Note:** Open a new terminal window before starting the frontend server.

1. Change directory

```
cd frontend
```

2. Install dependencies:

```
npm install
```

3. Run the Next.js development server:

```
npx next dev
```

4. The frontend will be available at http://localhost:3000

How to run migrations?

1. Make sure your virtual environment is activated.

2. Run the following command to apply migrations:

```
alembic upgrade head
```

3. To create a new migration after modifying models:

```
alembic revision --autogenerate -m "your message here"
```

4. Then apply the new migration:

```
alembic upgrade head
```