

Members of the group:

Maryna Borovyk

Illia Pastushok

Sofiia Tretiak

Project Overview: Wrocław Walk Explorer

An interactive web platform designed to help users plan personalized walking routes around the city of Wrocław (can be then extended for other cities). Users can customize their walks based on the amount of time they have, the type of walk they prefer (e.g. cultural, nature-focused), and specific interests (e.g., cafes, historical sites, parks). The platform will generate optimized routes on the map with recommended stops, providing a unique and tailored experience for both residents and visitors.

Target Audience

- those who visiting Wrocław and looking to explore the city in a tailored manner.
- locals seeking to discover new parts of their city or enjoy themed walks (e.g., cultural, nature, food-related).
- individuals planning events like guided tours or thematic walks.

Core Features

- Based on user preferences, the system will create multiple walking routes using Wrocław's map data.
- Each route will feature optimized stopping points (e.g., popular cafes, architectural landmarks, parks, theaters) that align with the user's interests and time constraints.
- The map will highlight the suggested routes and provide information about each stop.
- Users can zoom in for more details and click on each point for additional info (e.g., opening hours, historical background).
- Users can rate their walks and leave reviews or comments about specific stops to enhance recommendations for future users.
- Users can save their favorite routes and share them with others.

Technologies and tools:

Front-end: React

Backend: Python with Django

API: Google Maps or MapBox as more ready-to-go solution

Database: MySQL

Architecture: Layered (N-Tier) Architecture. As we have front-end interface part, business logic as our suggestion algorithm and data access layer to access data for users, their routes.