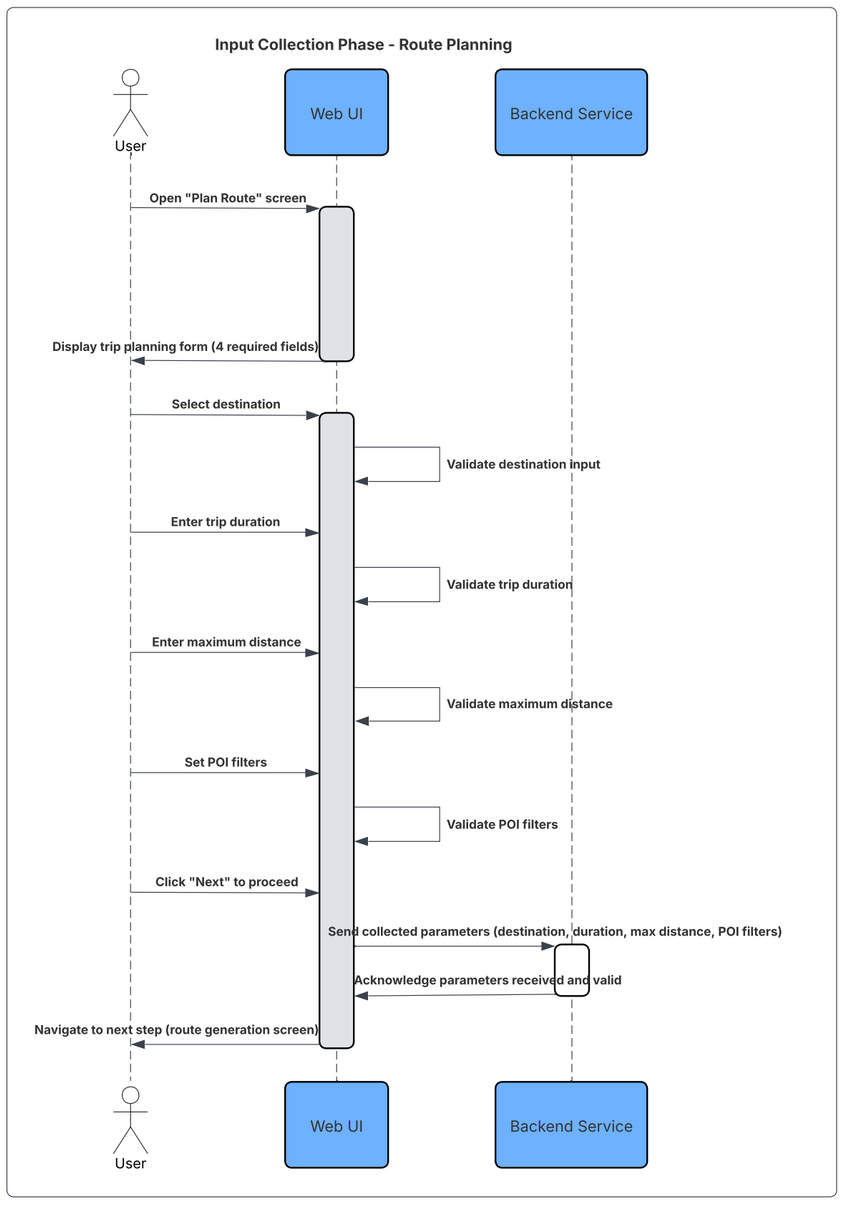
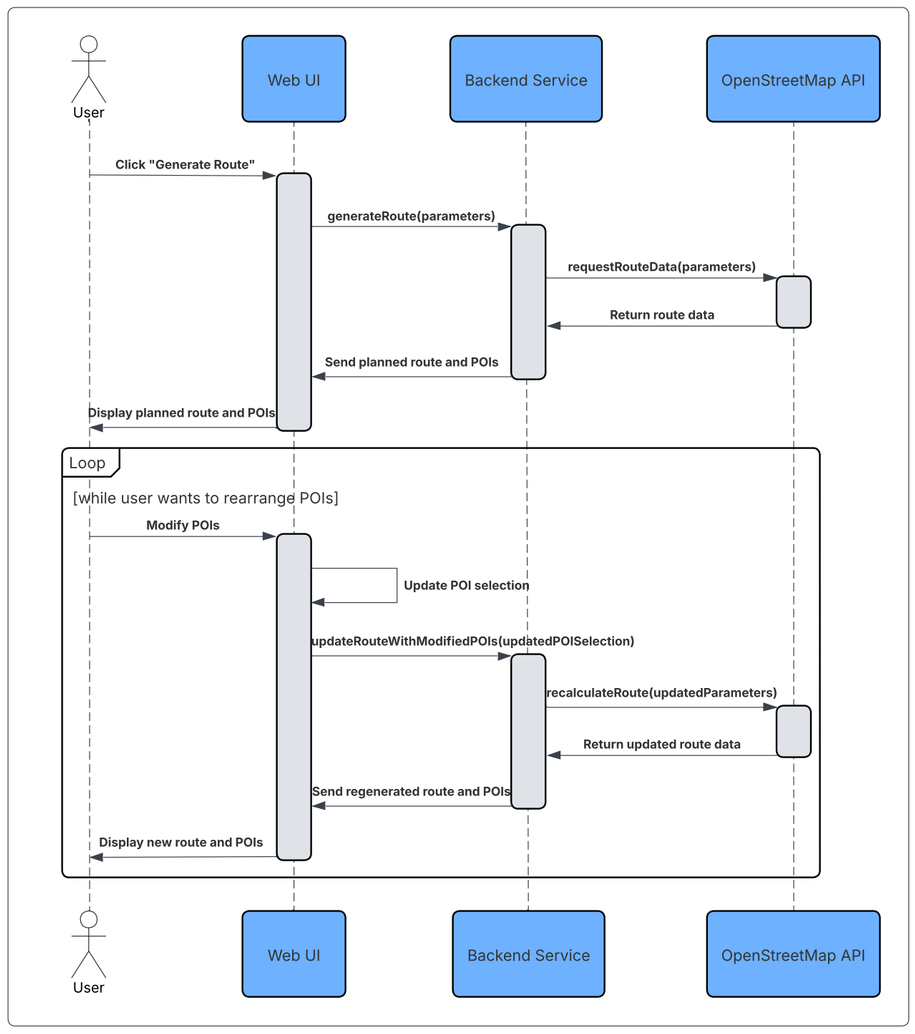
When the user opens the initial screen to plan a route, the system presents four input fields required in order to plan the trip. First, the user selects a destination, which can be either a city or a region. Next, the user enters the intended duration of the trip, specifying how many days they plan to travel or stay. Then, the user defines the maximum distance they are willing to cover during the journey. Finally, the user sets custom filters related to the Points of Interest (POIs), choosing categories or preferences that will shape the route. After providing all the required inputs, the user proceeds to the next step to generate the travel route based on the entered parameters.

Input Collection Sequence Diagram



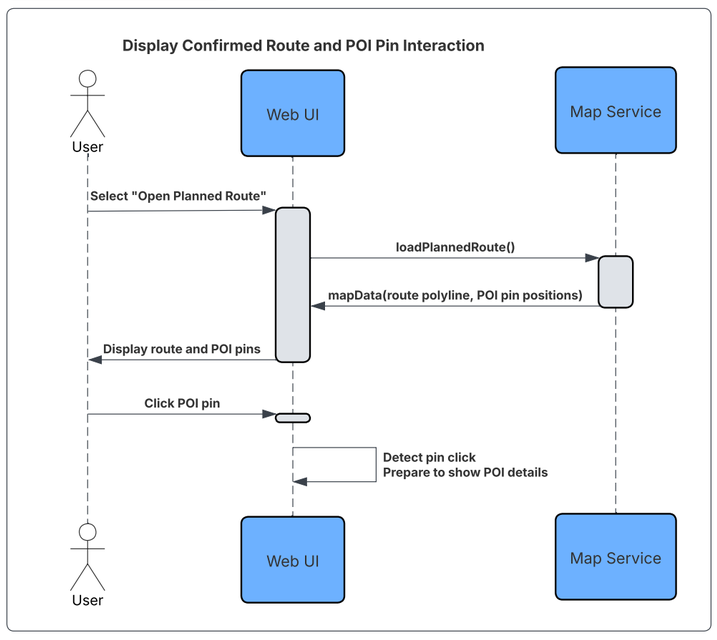

After the user provides the required inputs, the system generates a travel route using the OpenStreetMap API. Once the route is successfully created, it is displayed to the user on the interface. The user can then review the suggested Points of Interest (POIs). If the user wishes to rearrange the selected POIs, they can adjust the POIs by adding or removing them. After any modification, the system regenerates the route based on the updated preferences and displays the new route to the user again.

Route Generation and Replanning Sequence



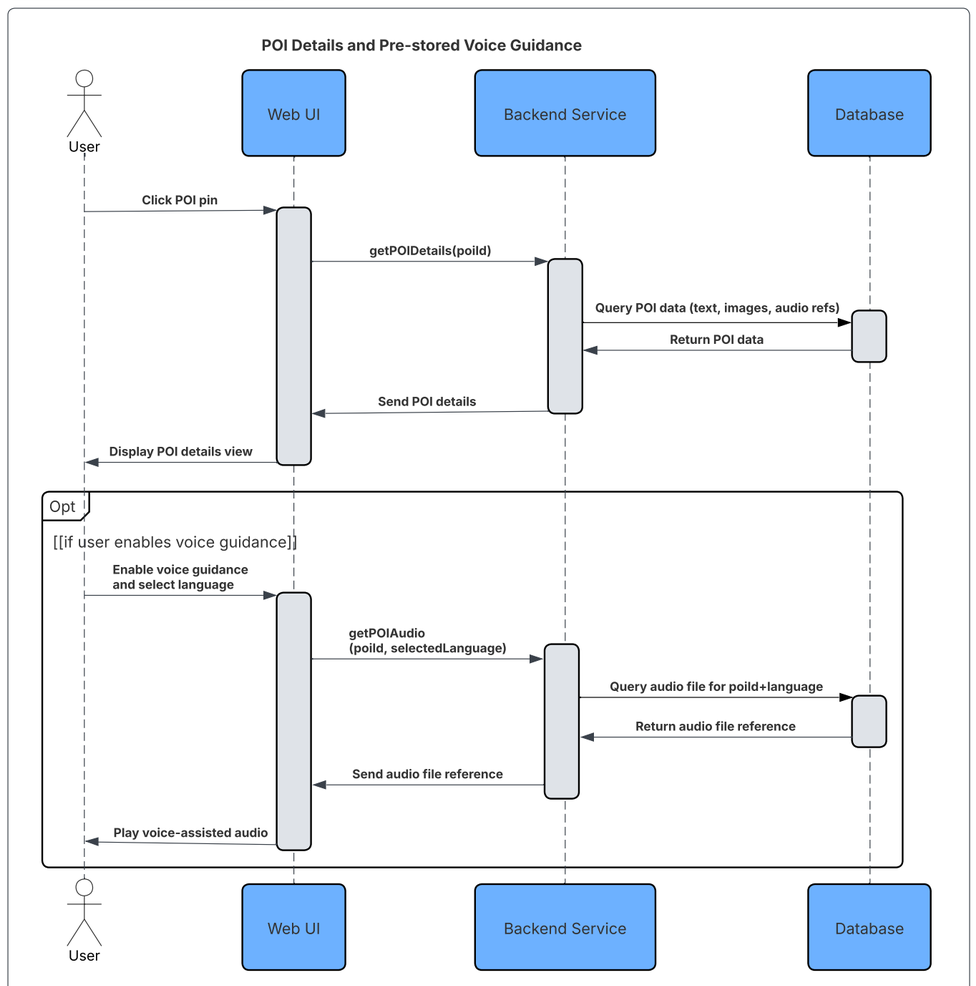

Once the route has been created and confirmed, it is displayed on an interactive map. On this map, each Point of Interest (POI) along the route is represented with a pin, allowing the user to visually explore the planned journey. The connecting paths between the POIs are also shown, enabling the user to clearly see the full travel route. The user can click on any POI pin to view detailed information about that location.

Interactive Map Route Display




When the user clicks a POI pin on the map, the system opens a details view showing textual information and images about that POI. The content is retrieved from the database (previously fetched via external APIs and stored) and presented immediately. The user may optionally enable voice guidance, choosing Turkish, English, or German; the system then plays an voice-assisted playback of the same textual content in the selected language.

POI Details and Voice Guidance Display




All POI content is preprocessed before runtime. Textual descriptions are fetched from the Wikipedia API; images are retrieved via Flickr and Pixabay APIs; and multilingual audio files are generated using the ElevenLabs API. All retrieved data is stored in the database prior to runtime. No external API calls occur in this sequence.