

Design of WWW services - Group Registration

Topic

A trail Guide Website to discover, share and edit hiking routes.

Short description

We aim to design and implement a web application that helps users discover hiking trails. Inspired by platforms like [Visorando.com](https://visorando.com), our site will provide information about various trails, including distance, estimated duration, difficulty level and points of interest. Users will be able to edit and browse trails, filter them by criteria. They can view details such as descriptions, photos and maps.

Technologies

To build the website, we will use front-end technologies such as HTML5 and CSS, along with a back-end environment based on JavaScript or TypeScript. To streamline development and deliver a modern, user-friendly design, we plan to use a framework such as React.js or Vue.js. For the database, we will use MongoDB, and for interface design and prototyping, we will rely on Figma or Canva.

In order to visualize hiking routes effectively, we will integrate the Google Maps API and display tracks in GPX format directly on the map. If necessary, we also plan to extract publicly available trail data from the web to populate our database, focusing primarily on routes relevant to our chosen region.

Focus Area

Our focus area will be the User Interface. Since maps and trail data must be presented clearly, the UI plays a central role in the usability of the website. We would like to design a clean and intuitive interface with filters and also integrate maps in a way that is user-friendly. We plan to evaluate and improve our interface through iterative methods such as Cognitive Walkthroughs and Think-Aloud protocols.

The group members

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Language

All three of us are French and will primarily communicate in French among ourselves. However, we are comfortable using English for discussions with the tutor and for all written assignments.