DevWeb Mini-Project

B2 computer science

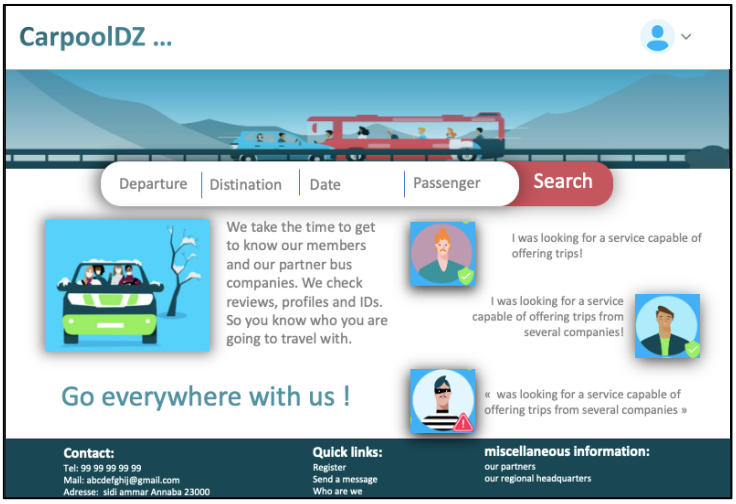
Transportation represents symbols of civilization and modernity. However, their increasing use leads to ecological and economic problems. In order to minimize these effects and simplify the lives of citizens, the concept of carpooling has emerged. Carpooling involves sharing a vehicle by multiple individuals making the same journey simultaneously, even if they do not know each other. The realization of this idea requires a communication system among the involved parties, often in the form of a website or mobile application.

Our goal is to develop a simplified carpooling website for Algerian citizens, providing an intuitive platform for this service. This platform will allow users to share the use of their vehicles during their journeys, while also providing passengers with the opportunity to search for and request to participate in these shared trips.

To achieve this, the site will include a homepage showcasing the offered services, as well as a search engine allowing passengers to find trips matching their needs by specifying departure and arrival locations, date, and number of passengers. Search results will be presented on another page, with filtering and sorting options based on partial or full match with the search criteria.

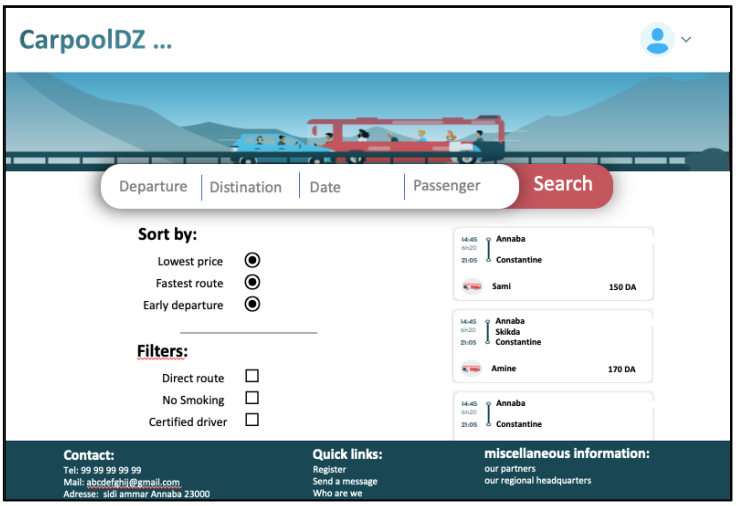
Each result will display details such as exact departure and arrival times, the driver, and the number of available seats. An additional page will provide detailed information about the driver and travel conditions for each trip. The site will also allow the creation of user profiles for passengers and drivers, enabling passengers to track the status of their carpooling requests and allowing drivers to manage their trips (direct/multi-stop) and validate/cancel requests.

Below, you will find the page templates to follow for the website development, along with the assigned functionalities.



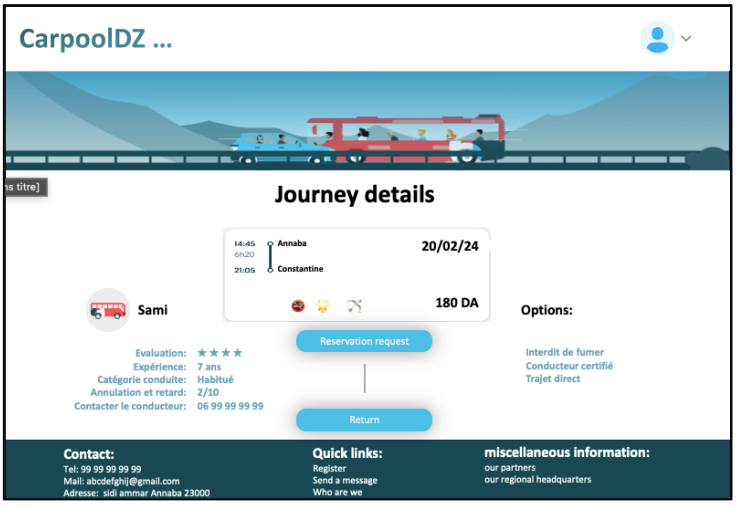
Home page

- Presents the carpooling service (user reviews)
- A search bar allowing to search for trips for a given date
- A header including the logo and login/register options
- A footer containing quick links to useful places/information on the site



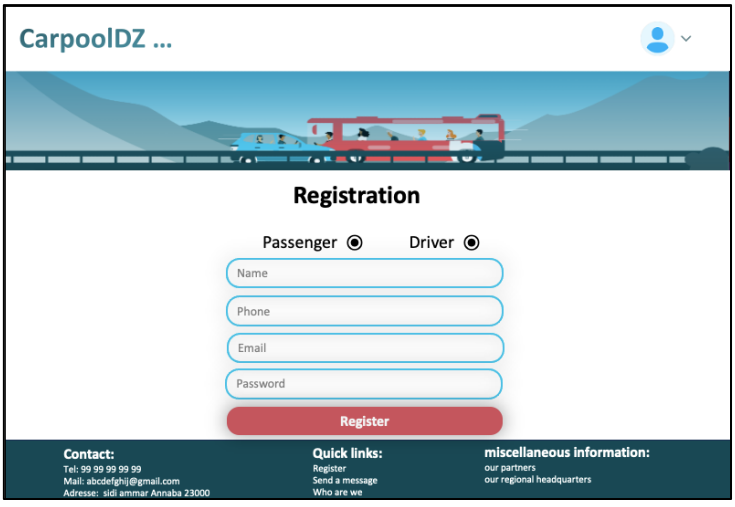
Search result page

- Displays the list of trips corresponding to the search criteria
- Displays the departure location/time, destination, price, and driver for each trip
- Offers sorting options by price, duration of the journey, and departure time
- Provides filters for the type of trip (direct/indirect), driver quality, and smoking prohibition



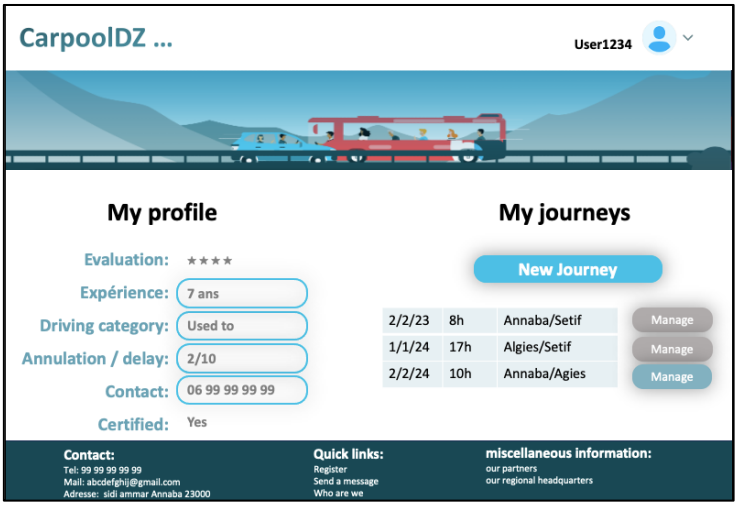
Journey details page

- Displays details about the driver and travel options
- Ability to request a reservation for the current trip
- Return to the search page



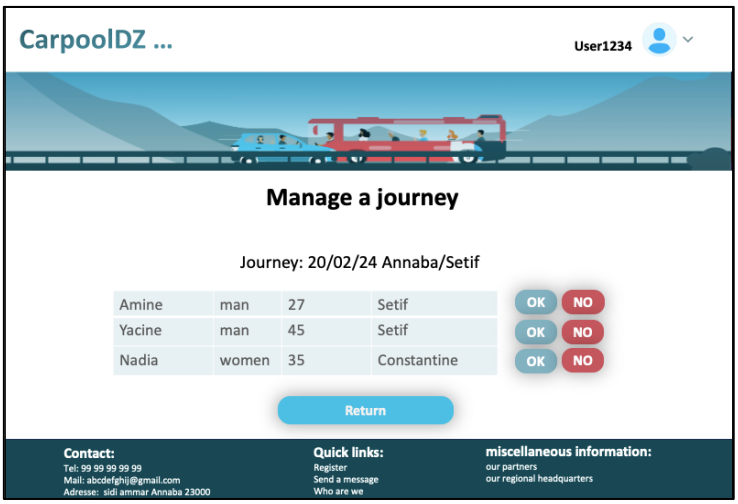
Registration page

- Depending on whether they are a passenger or a driver, the user should provide some information.
- A passenger should provide their name, phone number, email address, and password.
- A driver should provide additional information such as the date of obtaining their driving license, their date of birth, gender, etc.



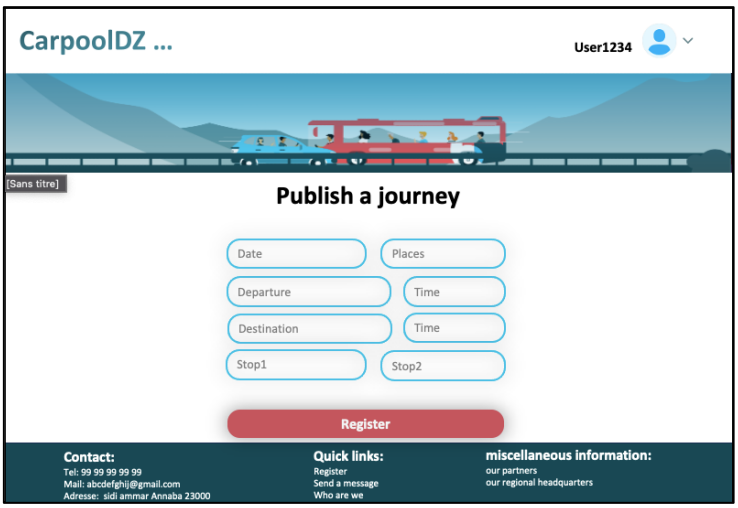
Driver account page

- Displays profile information (with the possibility of modification).
- Displays the list of trips initiated by the user.
- Ability to manage ongoing trips.
- Ability to create a new trip.



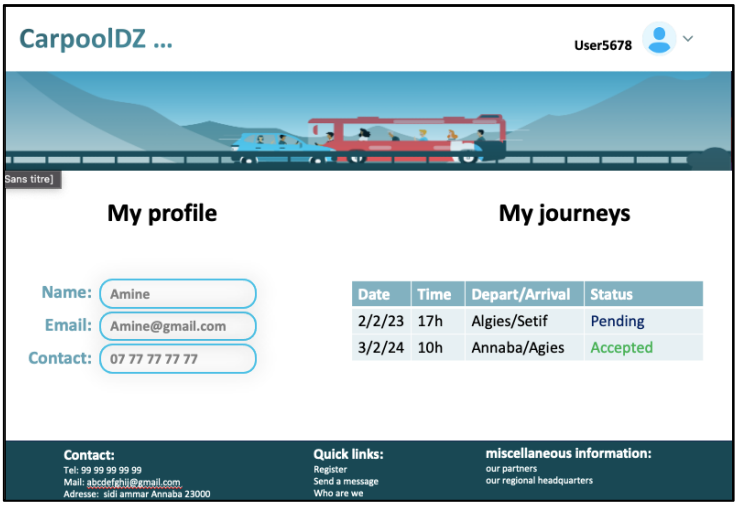
Journey management page

- Ability to accept/reject reservation requests for the current trip.
- Return to the driver's account.



New Journey page

- Allows the driver to create a new trip by specifying the date, the number of available seats, the departure/arrival locations/times, and optionally if there are stops (maximum 2 stops).



Passenger account page

- Displays profile information (with the possibility of modification).
- Shows the list of trips requested by the user, with the status of the request depending on the driver's response, which can be pending, accepted, or declined.

Notes:

- The progressive realization of the mini-project will extend throughout the semester and will follow the course's progress.
- The validation of the mini-project by the lab instructors will take place at the end of the semester.
- Students can only work individually or in pairs.
- The use of frameworks/libraries is not allowed; simply use the languages covered in class (HTML, CSS, JavaScript, and PHP).
- Non-personal work will be penalized.

Lecturer:
February 2024
Dr, BESNACI