

# DevWeb Mini-Project

B2 computer science  
2024/2025

Housing is a fundamental need for every individual. In Algeria, the demand for rental housing -whether temporary or long-term- is constantly increasing for tourism, professional, or social reasons. However, finding suitable accommodation can be challenging due to high demand and a lack of centralized listings. With the rise of digital technologies, connecting property owners and tenants has become simpler and more accessible through online platforms.

This project aims to develop a simplified housing rental website designed for Algerian users. This platform will allow property owners to post their listings and tenants to search for accommodation that meets their needs, while also facilitating communication and online reservations.

The site will offer users detailed listings that include precise location, prices in Algerian dinars, and specific property features (furnished/unfurnished, proximity to services, Wi-Fi, etc.). Its goal is to provide a modern and efficient solution for owners looking to rent out their properties and for tenants seeking accommodation quickly and easily.

The homepage will introduce the site's services and allow users to sign up or log in. It will include a quick search bar, a selection of recent or popular listings, and a preview of tenant reviews.

Users will be able to perform a search by specifying the location, number of tenants, and desired stay dates. Results will be displayed as a list with an image, description, price, and rating from previous tenants. An interactive map will help users choose and visualize the location of the properties. Sorting options (lowest price, highest rating, most booked) and filters (type of housing, price range, available amenities) will further refine their selection. When selecting a listing, users will be taken to a detailed page showing the accommodation's description, photos, price, location, and rental conditions. They can then send a reservation request to the owner, who may accept or refuse it. Some listings will allow immediate booking without requiring the owner's confirmation.

Each tenant will have a personal account enabling them to track pending or past reservations, modify or cancel a reservation according to the owner's conditions, and communicate directly with the owner via an integrated messaging system.

Property owners will have access to a dashboard to manage their listings, publish new properties, update information, and respond to reservation requests. An integrated messaging system will also allow them to discuss rental details with tenants.

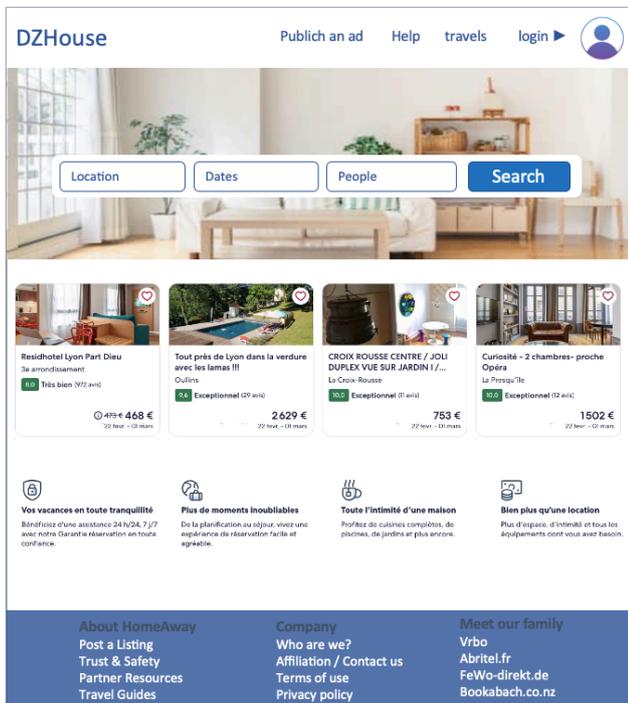
Below, you will find the page templates to follow for the website development, along with the assigned functionalities.

## Notes

- The progressive completion of the mini-project will span the entire semester and follow the course progress.
- The mini-project will be validated by the lab instructors at the end of the semester.
- Students can work individually, in pairs, or in groups of three.
- The use of frameworks/libraries is not allowed; only the languages covered in class (HTML, CSS, JavaScript, and PHP) should be used.
- The website must strictly follow the presented page models in terms of layout, style, content, functionality, and number of pages. However, the student is free to modify the colors, text, and images.
- Non-personal work will be penalized.

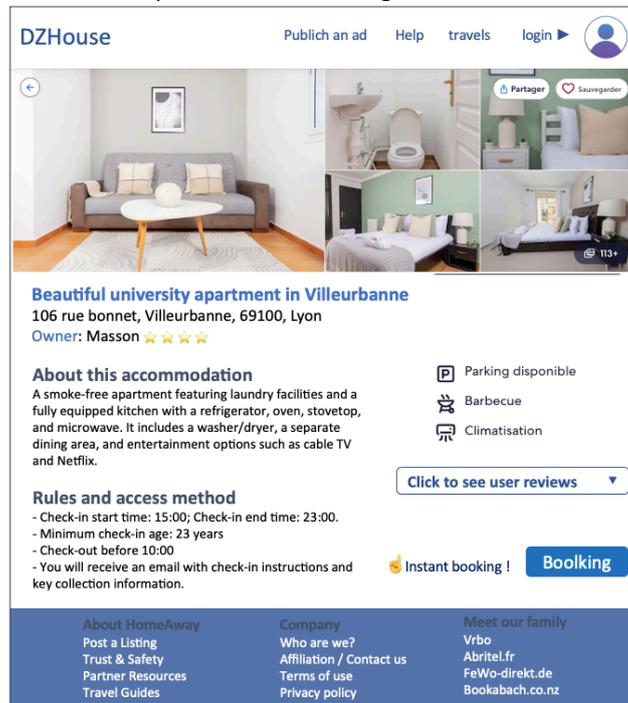
## Home Page

- An image highlighting the online housing rental service.
- A search bar to find accommodations for a specific period.
- Presentation of the website's services and features.
- A selection of popular or recent listings.
- A header containing the logo and an icon with a sign-up/login button via a dialog box.
- A footer with quick links to useful sections of the website.



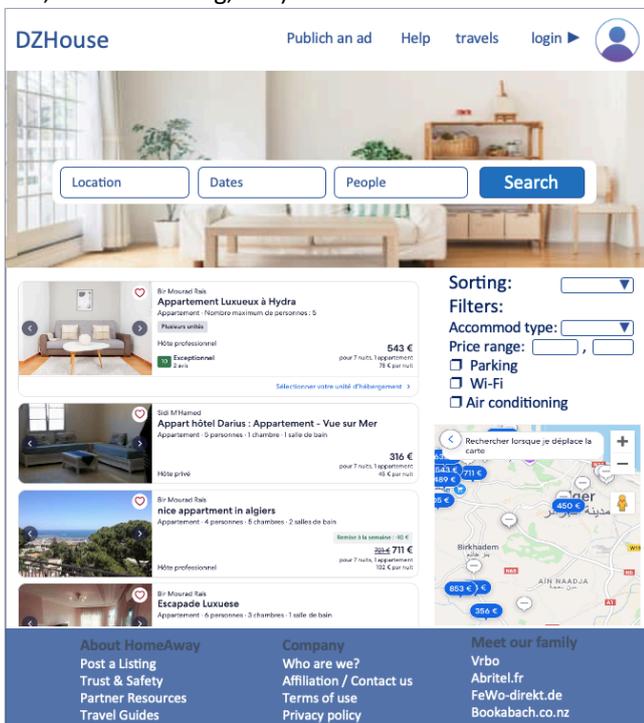
## Listing Details Page

- A detailed description and rules of the accommodation, including the exact address and the owner's name with their rating.
- A gallery of images showcasing the property.
- Indication of the booking method: instant reservation or subject to confirmation.
- A list of reviews and ratings from previous tenants.
- A button to proceed with booking the accommodation.



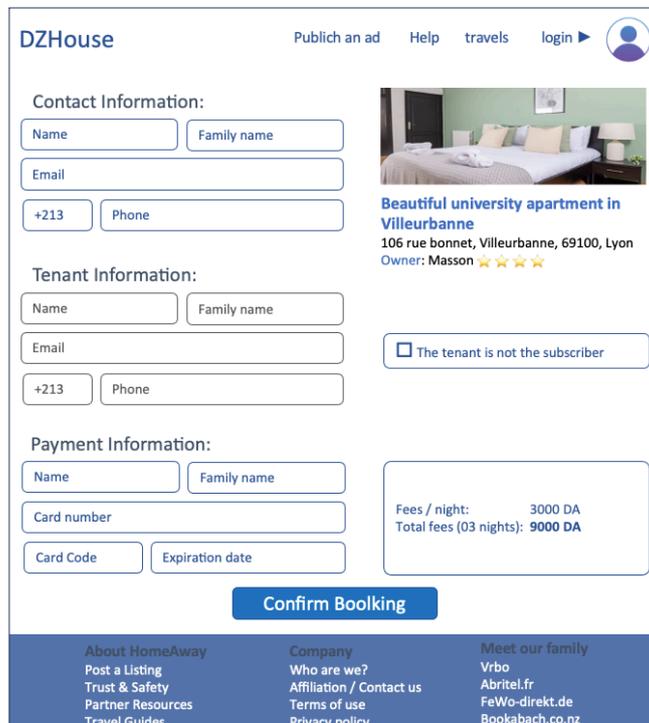
## Search Results Page

- A list of accommodations matching the search criteria, with a bubble map to facilitate selection and access to listings.
- For each accommodation, the following information is displayed: name, address, type, description, price, and tenant rating.
- Sorting options for results: by ascending price, highest rating, or number of bookings.
- Available filters: type of accommodation (apartment, house, studio, room), price range, amenities and facilities (parking, WiFi, air conditioning, etc.).



## Booking Page

- Fields to be filled in with tenant information (pre-filled with data from the tenant's profile).
- Selection of check-in time.
- Fields for payment information.
- A button to submit the accommodation booking request.



## Registration Page

- The user must choose between a tenant or owner account.
- **Tenant:** Required information includes name, phone number, email address, and password.
- **Owner:** In addition to basic details, the user must provide an ID photo, address, and banking information.

## Owner Account Page

- Profile information with the option to edit.
- List of listings and reservation requests for published accommodations.
- Management of listings (add, edit, delete).
- Management of reservation requests (accept or decline pending requests).
- Messaging space to communicate with tenants.

## Tenant Account Page

- Profile information with the option to edit.
- List of reserved accommodations with reservation status (pending, accepted, declined).
- Option to leave a review on the accommodation or the tenant.
- Messaging space to communicate with property owners.

## Accommodation Listing Management Page

- Interface allowing the owner to create or modify a listing.
- Ability to enter/modify multiple details: accommodation name, type, address, photo gallery, reservation mode (immediate or subject to confirmation), available amenities and facilities (Wi-Fi, parking, air conditioning, etc.).