

# Frontend Assessment – Candidate Instructions

## Expectations

- Demonstrate a solid and robust architecture.
- Highly maintainable and legible code.
- Use and knowledge of design patterns.
- Follow software development best practices.
- Effective and consistent naming conventions.
- Code crafted with modern development methodologies.
- If you choose to simplify your code in the name of speed (i.e. “prototype” style development) be able to explain the shortcuts you took and why
- Smart UI patterns are not allowed.
- Code snippets from old projects and/or opening any old projects are strictly forbidden.
- Prioritize good code design and architecture over development speed.
- **Read the instructions carefully as only complete and working solutions will be reviewed.**
- Your code should compile and run with us doing a simple package restore and nothing more.

## Submitting your code

- Go to [git.number8.com](https://git.number8.com) and register or login if you already have an account.
  - Please create your account following this naming convention:  
firstName.lastName
  - You may also add your second name and/or second last name if the user already exists.
- Create a repository to work on and do constant commits as you would normally do. Please use the assessment name on the repo name. Ex: frontend-assessment
- You have no time limit to complete the assessment.
- Once you are ready, add a brief explanation of your solution and architecture to the README file and share your git repository URL with your recruiter.

## Real Estate Listing web app

### First Task (Listings Page):

Create a new blank website - You may use the framework/library of your preference unless otherwise specified by your recruiter.

Bind the JSON on this [URL](#) to the web app and create a Listings Page. You can use the following mockup as reference or create your own design if you prefer.

Bedrooms: 
Bathrooms: 
Parking: 
Price Range:

Listing Title  
Location  
4 beds | 2 baths  
\$175 000

Listing Title  
Location  
4 beds | 2 baths  
\$175 000

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This page should have the following details:

- A filter section where the user can filter by number of Bedrooms, Bathrooms, Parking spaces and Price Range. **This section should be functional and filter the data according to user input.**
- A listings section that will display the following information:
  - Listing thumbnail, Title, Location, # of Bedrooms, # of Bathrooms, Price
  - A “View Details” button that will take the user to the following page.

## Second Task (Listing details view):

Create an additional page or modal where the user can see the details of the selected listing. This will be displayed after the user clicks on the “View details” button from the previous task.

You can use the mockup below as a guide or create your own design if you prefer.

Listing Title

Location

\$175 000

Date Listed: Feb 18, 2023

Save Property

5

BED

2

BATH

3

PARKING

1503

SQFT

1996

YEAR BUILT

Contact Agent

Full Name \*

Email \*

Phone Number \*

Comments \*

Contact Now

Listing description goes here... Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum mi elit, volutpat ut euismod non, elementum sed leo. Aliquam at facilisis purus, sit amet blandit augue. Donec faucibus fermentum nunc, ac facilisis odio rutrum nec. Fusce et varius orci, vitae pulvinar dui. Curabitur interdum ligula scelerisque scelerisque fringilla. Donec dapibus pharetra lectus sed scelerisque. Morbi sit amet mauris lacus. Pellentesque sagittis, nisi non congue eleifend, tortor eros suscipit velit, vel efficitur nunc eros nec dui. Suspendisse sed tempus purus. In hac habitasse platea dictumst. Nam lacinia dolor eu odio ornare efficitur. Quisque imperdiet erat vitae ante semper posuere. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia curae; Suspendisse ac elit nec justo euismod commodo. Fusce nec felis et turpis rutrum hendrerit non sit amet metus.

This new section should display the following information:

- Listing Title, Picture, # of bedrooms, # of bathrooms, # of parking spaces, square footage, year built, price, location, description and date listed in the format “Feb 18, 2023”.
- A “Contact Agent” form with the following:
  - Full Name, Email, Phone and Comments fields.
  - A “Contact Now” button with the following behavior:
    - Field validation: All fields should not be empty. Email field should have a valid email format and phone should only allow numbers.
    - When clicking the button, it will validate all fields and display a red message with the validation error when there is an empty field or a format error.
      - You can also add other ways of validation if you prefer.
    - When clicking the button if all validations are ok it will display a green “Message sent successfully” message.

### Bonus:

You can add a “Save Property” button that will display a modal with all other saved properties.