

# Front-End Project: City Builder

This test has a **1-week time limit**, starting from the time you receive the email, and also aims to assess your **communication skills**. We encourage you to treat it as if it were a real project. Feel free to ask **questions**, share **feedback**, provide **comments**, or suggest **improvements** throughout the test. Collaboration and clear communication are key aspects we value.

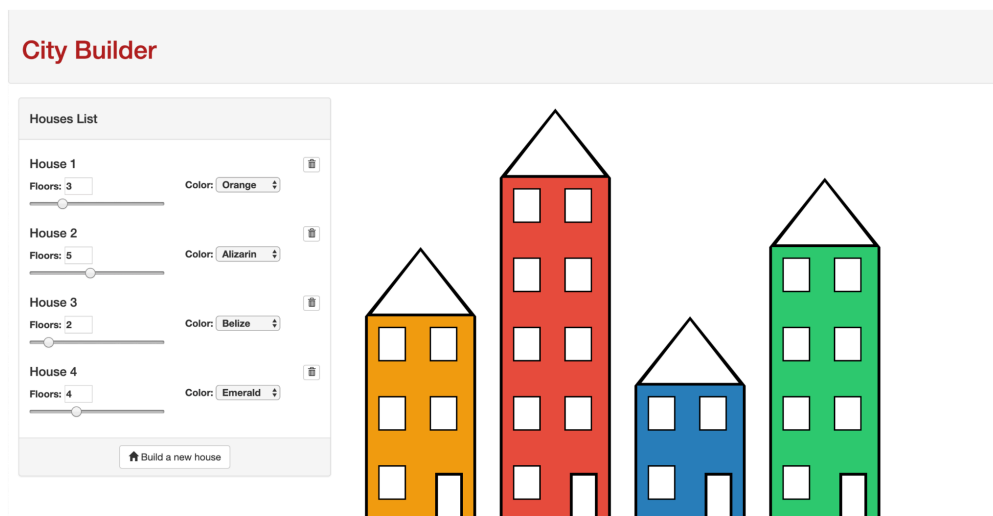
## Description

Your task is to create a **City Builder** that dynamically constructs houses based on input data. This feature should offer an intuitive and interactive user experience, enabling users to:

- **Customize Houses:** Adjust attributes like the **color**, **number of floors**, and **name** of each house.
- **Manage Houses:** Add new houses, duplicate existing ones, or remove them with ease.
- **Display Weather:** Add sun, rain, or snow icons and display the current temperature based on the selected location.

The focus is on building a scalable, maintainable, and performance-optimized solution that demonstrates your technical expertise and creativity.

## Design Prototype



## Requirements

- **Tech Stack:** Use **Next.js**, **Tailwind CSS**, **React Query** for development.
- **Git:** Structure your commits logically and meaningfully.
- **Performance & Scalability:** Focus on creating a performance-oriented and scalable solution.
- **Browser Support:** Ensure compatibility with the last two versions of modern browsers.
- **Task Breakdown:** Split the project into clear, manageable tasks, estimate the time required for each, and include this breakdown in the **README** as your first commit.
- **Storage:** Use `localStorage` to save the current state of the application.

## Optional Enhancements (*Bonus Tasks*):

- Add smooth **animations/transitions** for an enhanced user experience.
- Implement **drag & drop** functionality.
- Allow users to **change the color of individual floors**.
- Write and include **tests** to ensure the reliability of your solution.

*Feel free to tackle one of these bonus tasks or bring your own innovative improvements to the project.*