

Real Estate Project

A **Real Estate Web Application** offers users a streamlined platform to browse and manage properties available for sale. The application facilitates property exploration with features like adding listings to a cart and contacting sellers directly through a secure interface. It integrates advanced **authentication methods using Google accounts** and provides seamless user experiences through **Firebase-powered backend services**.

The project caters to real estate buyers and sellers who want an efficient way to connect. Built using **React** for frontend development, it leverages **Firebase for database management and user authentication**. The routing is handled using **React Router**, allowing smooth transitions between pages. State management is implemented via **React Context API** for effective handling of global states like cart management.

The home page lists all properties with detailed views. Users **can log in or sign up** to manage their interests and contact sellers. Listings include comprehensive property details such as price, description, and images. Additionally, users can manage their cart and view summaries, with real-time state updates reflecting total prices and quantities.

The application uses the **Observer Pattern** to handle state changes. For example, when a property is added to the cart, total quantities and prices update instantly, ensuring synchronized UI feedback. Arrays and objects are the core data structures used for managing application state and **Firestore collections**, including properties, users, and carts.

This project shows how digital solutions can simplify property management, making it an ideal tool for real estate enthusiasts looking for a convenient and modern approach to property dealings.

Presentation link:

https://docs.google.com/presentation/d/1UL3g8LU4McqUN-2yDAfGl1YC0l5l2A9a/edit?usp=share_link&ouid=107782487063037675035&tpof=true&sd=true

Hosted at:

<HTTPS://REALESTATEPROJECT-A07DD.WEB.APP/>

Github link:

<https://github.com/ralucacrepcea/RealEstateProject.git>