Project Title: Real Estate Property Search

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- Include any additional information, code snippets, or diagrams that support the report.

Introduction

The "Real Estate Property Search" project aims to provide a simple command-line tool for users to search for properties based on their price range, city, and state preferences.

Project Overview

The project addresses the need for a property search tool, allowing users to find properties that match specific criteria such as price range, city, and state. This tool can be useful for individuals looking for real estate investment opportunities or residential properties.

Code Structure

The code is structured as follows:

- Header file inclusions and constant definitions.
- Declaration of the Property struct.
- Declaration and initialization of the properties array.
- Functions for adding properties (addProperty) and searching properties (searchProperties).
- The main function for user interaction and program execution.

Data Structure

The Property struct is used to store information about each property, including its address, city, state, and price. Property data is stored in an array of Property objects named properties.

Functionality

- The addProperty function allows the addition of properties to the database.
- The searchProperties function performs property searches based on user-defined criteria.

Sample Data

The properties array is populated with sample property data, including addresses, cities, states, and prices.

User Input

The program takes user input for minimum price, maximum price, city, and state preferences to perform property searches.

Results

The program displays search results matching the user's criteria. It lists properties that meet the specified price range, city, and state.

Conclusion

The "Real Estate Property Search" project successfully provides a basic property search tool. It allows users to find properties based on their preferences. The project demonstrates the use of data structures and functions to create a functional program.

Future Improvements

In future iterations of this project, you could consider adding the following features:

- Improved user interface, possibly with a graphical front-end.
- Integration with a larger property database.
- Sorting options for search results.
- Advanced search criteria, such as property type or size.

References

- C programming documentation.
- Standard C libraries (stdio.h, stdlib.h, string.h).

Appendices

- Additional code snippets or diagrams, if necessary.