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Idea Number: 9

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| Title | Real Estate Portal System |
| Description | This project focuses on creating a real estate portal that facilitates users in searching, comparing, and managing property listings. The system will enable users to access detailed information on properties, including descriptions, and essential features, to aid in their decision-making process. Users can list their properties, providing necessary details to attract potential buyers. The system will also offer a comparison tool allowing the evaluation of properties side by side based on various criteria. |
| Minimum Requirements | <p>> For Users:</p> <ol style="list-style-type: none">1. Account Management: Users can register, log in, and manage their profiles.2. Listing Properties: Users can submit new property listings with details such as name, location, price, and specific features.3. Search Functionality: Implement a feature allowing users to search for properties using filters like location, price range, and property type.4. Property Comparison: Enable users to compare up to four properties simultaneously, displaying key information side by side. <p>> For Admin:</p> <ol style="list-style-type: none">1. Dashboard Access: Admins can log in to access a dashboard for managing the platform.2. Manage Listings: Admins have the authority to add, remove, edit, or highlight specific property listings.3. User Management: Ability to manage user accounts, including approval of new listings, and moderation of user activities. <p>> Important Notes:</p> <ul style="list-style-type: none">● Use at least two appropriate data structures in the project.● Clean code is essential.● Implement basic error handling (e.g., insufficient balance, user not found).● Save data in files so the user can close the program and reopen it to continue working on the saved data. <p>> Evaluation:</p> <ul style="list-style-type: none">- The evaluation will be mainly based on the students' ability to use and apply the most suitable data structure(s) for the given task(s) and explain why they used these data structures and why they are better than other data structures in any given case. |

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| | > Using ready-made libraries with ready-to-use data structures (e.g. STL) is allowed. |
| Bonus | <ul style="list-style-type: none"> - Implement a remarkable Graphical User Interface (GUI) - Users can use advanced filtering options (e.g., square footage, number of bedrooms) to refine search results. - Admin can generate reports on listings statistics, user activity, and other analytics for platform oversight. |
| Development Tool | <ul style="list-style-type: none"> - C++ / Visual Studio IDE. |