

SDE Intern Backend Assignment: Property Listing System

You are required to build a backend system for managing property listings using the provided dataset. The system should support CRUD operations, advanced filtering, user authentication, and property favorites. Bonus points for implementing recommendation and deployment.

Dataset:

Download the dataset CSV from the following link:

https://cdn2.gro.care/db424fd9fb74_1748258398689.csv

Tasks:

1. Import the CSV data into MongoDB.
2. Implement CRUD operations for properties. Only the user who created the property (identified via the createdBy field) is allowed to update or delete it.
3. Implement advanced search/filtering based on all 10+ attributes.
4. Integrate caching (e.g., Redis) to optimize frequent read/write operations.
5. Implement User registration and login with email/password
6. Allow users to favorite properties and perform CRUD on favorites.

Bonus Task:

- Deploy the backend server to a free hosting service (e.g., Render, Vercel).
- Implement a feature that allows a user to recommend a property to another registered user. The recommending user should be able to search for the recipient using their email address. Once found, the selected property should be shared with the recipient and saved in their "Recommendations Received" section. The recipient can later view all the properties recommended to them by other users.

Tech Stack: -

- TypeScript / Node.js / Golang
- MongoDB
- Redis (for caching)

Deadline:

You have 5 days from the date of receiving this assignment to complete and submit it

Submission:

Please submit the assignment before the deadline and include the following:

- Deployed application link
- Recorded video explaining the code
- GitHub repository link(with documented Readme file)

<https://docs.google.com/forms/d/1s0w58ldemgak6e3WoA71gEmUR4l4W1LZV4pbHklrCvg>

