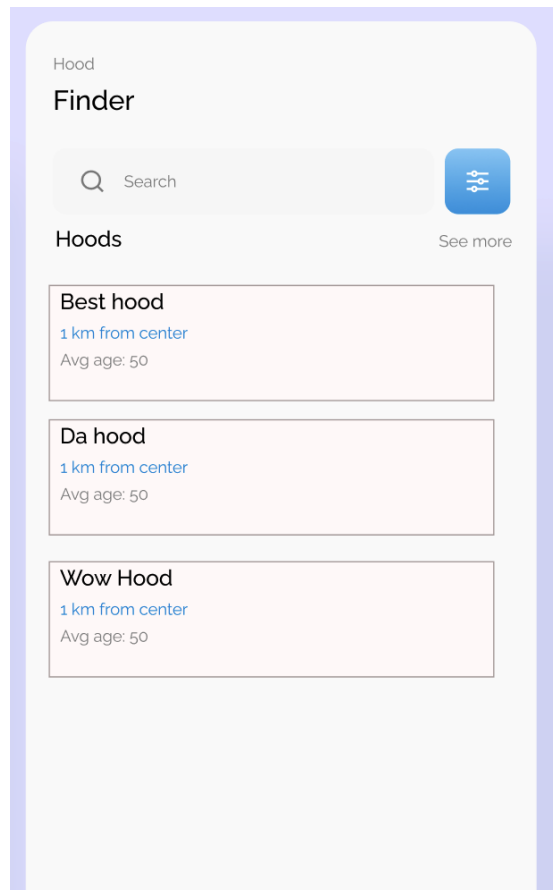


Hood Finder Mobile App

Overview:

At Venn, we are committed to transforming neighborhoods by fostering community connections, supporting local businesses, and encouraging active resident involvement. Your task is to build a simple mobile app & a HTTP-based API that will enable querying for neighborhoods based on various metrics.

UI example:



Task Description:

1. API Specification:

- Develop an API with the endpoint `/neighborhoods` to fetch a list of neighborhoods. - Implement request parameters for filtering, such as `ageRange=[minAge,maxAge]`, `maxDistance=[distance]km`, and `sortBy=[field,order]`.
- The API should return data in a structured JSON format.

2. Database Integration:

- Choose and justify the use of either a SQL or NoSQL database.
- Create a database schema and populate it with the provided mock data.

4. UI:

The UI should include a search bar with autocomplete on the hood name, a range selection filter for the age, and range selection filter for the distance and a sort by filter.

3. Bonus Task - Geolocation Feature:

- Integrate a public location API (e.g., Google Maps API) to find all neighborhoods within a specified distance from a provided address and show the neighborhoods on a map.

Guidelines:

- Focus on aspects like code structure, performance, and API documentation.
- Submit your solution as an attached file via email or, preferably, as a GitHub repository.
- Include a [Readme.md](#) file with instructions on setting up and running your solution.
- Please complete and submit the task within 3 days.
- Feel free to email if you have any questions or need clarification.