Hidden Spots - Location-Based Community Platform

Duration: 21 June 2025
Frontend Required: React Native

Feature Summary

Hidden Spots is a community-driven discovery platform that transforms ordinary locations into emotional experiences. Users find and share secret local gems - cozy cafés, peaceful lakesides, romantic rooftops, or creative art corners - that go beyond typical tourist spots. Each location comes with personal stories, community ratings for vibe/safety/uniqueness, and detailed descriptions from real people. It's like having a local friend who knows all the best hidden places for dates, solo reflection, or meaningful connections. The goal is creating a curated map of emotions and memories where every spot has a story and purpose.

What You'll Build

Develop a mobile-first location discovery platform that combines GPS technology with rich community storytelling, allowing users to find, share, and rate meaningful local spots through an interactive map interface with comprehensive community features, photo galleries, and experience sharing capabilities.

Core Requirements

Frontend Features (React Native)

- **Interactive Discovery Map**: Implement GPS-based map showing nearby hidden spots with custom markers for different vibes (Romantic, Serene, Creative)
- **Rich Spot Details**: Create immersive spot profiles with photo galleries, personal stories, vibe descriptions, and community tips
- **Community Rating System**: Design intuitive interfaces for rating uniqueness, vibe, safety, and crowd levels with visual indicators

- **Spot Submission Flow**: Build comprehensive forms for adding new locations with photo upload, story writing, and category selection
- **Experience Sharing**: Implement comment system allowing anonymous or public sharing of personal experiences at each spot
- **Smart Discovery Feed**: Create personalized recommendations based on user preferences, location, and community ratings
- **Photo Gallery & Stories**: Design rich media displays showcasing multiple photos and personal narratives for each location
- **Search & Filter System**: Implement advanced filtering such that users are recommended only local hidden spots not famous one
- (IMPORTANT) You have to use Gwalior City in Madhya Pradesh for displaying the hidden spots you can display like 4 hidden spots for the assignment so create logic accordingly.

Backend Features

- **Geospatial Database**: Implement location-based queries with radius search and proximity algorithms using MongoDB geospatial indexing
- **Multi-Dimensional Rating System**: Develop algorithm calculating composite scores for uniqueness, vibe, safety, and crowd levels
- **Story & Experience Storage**: Create flexible content management for personal narratives, tips, and community experiences
- **Image Processing & Optimization**: Implement automatic image compression, resizing, and gallery management
- **Anonymous/Public Comment System**: Build dual-mode commenting allowing users to choose visibility levels
- **Content Curation**: Develop community-driven quality control and featured spot selection algorithms

Technical Specifications

- **Database**: MongoDB with geospatial features (MongoDB Atlas free tier)
- **Backend**: Node.js with Express.js
- **Maps**: Google Maps API (free tier) or Mapbox (free tier)
- **Image Storage**: Cloudinary (free tier)

- **Frontend**: React Native with Expo
- **Location Services**: React Native Geolocation or Expo Location

Deliverables

1. Fully functional React Native mobile app
2. Backend API with geospatial query capabilities
3. Database design optimized for location-based queries
4. Performance testing report for map rendering and location queries

Bonus Features

- Offline map caching for discovered spots
- Show more than 4 accurate hidden spots

Submission

The project must be uploaded to **GitHub** and made public. Also, share a **Google Drive** link with a recording of the app demonstrating all the core features.