

# Proposal for Wealth Map Challenge

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## 1. Introduction

We are excited to submit our proposal for the Wealth Map Challenge. Our team aims to develop an advanced, secure, and user-friendly corporate platform-**Wealth Map**-that empowers organizations to explore property ownership and net worth data across the US. Leveraging interactive mapping, robust search, and seamless third-party integrations, our solution will provide actionable insights and set a new benchmark for property intelligence platforms.

## 2. Problem Statement

Organizations need a centralized, reliable, and intuitive tool to visualize, analyze, and report on property ownership and wealth data at scale. Current solutions are fragmented, lack real-time integrations, and often fall short in usability, collaboration, and data privacy.

## 3. Our Solution: Wealth Map

**Wealth Map** will be a web-based platform providing:

- An interactive US property map with advanced visualization and clustering
- Detailed property and owner profiles, including net worth analysis and ownership history
- Powerful search and filtering by address, owner, property characteristics, and wealth metrics
- Integration with leading third-party data providers ([Here.com](#), PitchBook, Wealth Engine, Zillow, etc.)
- Secure, role-based access for company administrators and employees
- Exportable, customizable reports and collaborative features for teams

## 4. Key Features & User Stories

Feature Area	User Story Example	Acceptance Criteria Highlights	
Company Registration/Admin	As an admin, I want to register my company and manage users.	Register company, invite/revoke employees, set permissions, monitor activity, set data preferences	

Feature Area	User Story Example	Acceptance Criteria Highlights	
Employee Onboarding	As an employee, I want a smooth onboarding experience.	Email invites, secure sign-up, MFA, onboarding tutorial, notification settings	
Property Map Interface	As a user, I want to explore properties on an interactive map.	US map, property markers, zoom/pan, satellite/standard views, efficient data loading, filtering, save map views	
Property Information Display	As a user, I want to view detailed property and ownership info.	Click for details, expanded info, images, ownership history, bookmarks, export data	
Owner Wealth Analysis	As a user, I want to assess property owners' net worth.	Net worth estimates, confidence scores, data sources, breakdowns, owner comparisons	
Third-Party API Integration	As a user, I want comprehensive, up-to-date data from multiple sources.	Integrate at least 3 APIs, handle rate limits, authentication	
Search & Filtering	As a user, I want to search/filter for properties and owners.	Search by address/owner, filter by value/size/type/net worth, save filters, auto-suggestions, dynamic updates	
Data Export & Reporting	As a user, I want to export and share property/owner reports.	Export in multiple formats, custom/scheduled reports, visualizations, sharing, export history	<a href="#">[1]</a> <a href="#">[2]</a>

## 5. Technical Approach

- **Front-end:** React.js with MapBox or Leaflet for interactive mapping
- **Back-end:** Node.js (Express) RESTful API
- **Database:** PostgreSQL with PostGIS for geospatial queries
- **Authentication:** OAuth 2.0, MFA, role-based access
- **Cloud Hosting:** AWS or GCP for scalability
- **API Management:** API Gateway for secure third-party integrations
- **Caching:** Redis for fast map/data loads
- **Version Control:** GitHub for codebase management [\[1\]](#) [\[2\]](#)

## 6. Team Roles

- **Sajid:** Team Lead, Backend/API Integration
- **Hemanth:** Frontend/UI/UX Lead
- **Arun:** Data Engineering, Third-Party Integrations
- **Greeshma Dj:** QA, Documentation, Reporting Features

7. Development Timeline

Week	Milestones	
1	Planning, requirements, system architecture, basic UI/UX prototyping, third-party API research	
2	Core feature development (map, search, authentication), API integrations, initial testing	
3	Advanced features (reporting, export, collaborative tools), performance optimization, documentation	
Final	User testing, pitch deck, demo video, submission	<a href="#">[1]</a> <a href="#">[2]</a>

8. Judging Criteria Alignment

- **Technical Implementation (30%):** Scalable, secure architecture, clean code, robust API integrations
- **User Experience (25%):** Intuitive, responsive map UI, clear workflows, accessibility
- **Feature Implementation (25%):** Complete mapping, search, reporting, and data integration features
- **Business Viability (20%):** Market fit, scalability, privacy compliance, unique value proposition [\[1\]](#) [\[2\]](#)

9. Risks & Mitigation

- **API Rate Limits:** Implement caching and fallback strategies
- **Data Privacy:** Encrypt sensitive data, comply with regulations
- **Performance:** Optimize queries, use clustering, and CDN for assets

10. Why Our Team?

Our team brings together expertise in backend, frontend, data engineering, and QA. We are committed to delivering a robust, innovative solution aligned with the challenge vision and are eager to leverage mentorship for maximum impact.

11. Conclusion

Wealth Map will set a new standard for property and wealth intelligence in the enterprise sector. We look forward to your feedback and the opportunity to build this transformative platform.

*Submitted by Team Sajid, Hemanth, Arun, Greeshma Dj*