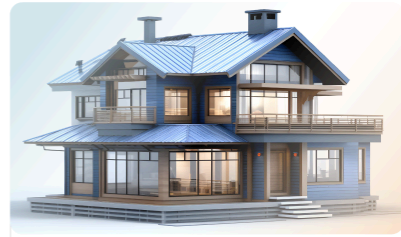**Sobha Hearland II Villas**
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Project Requirement for Real Estate Rental Platform(Web3)

1. Project Overview

- Objective : to revolutionize the rental property market by integrating cryptocurrency payments into a secure, scalable platform that simplifies transactions for property owners and tenants.

This platform will include a dedicated admin dashboard, dark and light mode interfaces, and be fully responsive across devices.

- Target Technologies : React/Next, Node.js/TypeScript, Web3.js, Solidity, Rust, Golang.

- Supported Blockchains : Ethereum, Polygon, Binance Smart Chain (BSC).

2. Technical Requirements

Front-End Development

- Framework: React will be used to develop a responsive and dynamic user interface.

  It will support both dark and light modes to enhance user experience.

- UI/UX Design:

  - Home Page: Already completed as a demo.

    Additional Pages: Full development of all necessary pages, including Property Listings, Tenant Dashboard, Property Management, Payment Gateway, and Support.

    Responsiveness: Ensure the website is fully responsive across all devices, including desktops, tablets, and smartphones.

    Interactivity: Use of React components to enhance user interactivity and provide a seamless user experience.

Back-End Development

Framework: Node.js will be the backbone of the back-end development, handling all server- side logic and operations.
API Development:

Content Management: Development of a robust backend API for managing website content, including property listings, user profiles, and transaction history.

Security: Integration of Web3 for secure, decentralized transaction handling using smart contracts.
Database Management: Efficient handling of data with the ability to scale as the user base grows.

Crypto Payment System

- Integration with Web3:
    - Implement a secure crypto payment system that allows users to pay rent or make deposits using cryptocurrencies.
    - Use smart contracts to automate payment processes, ensuring transparency and reducing the risk of disputes.
- Multi-Currency Support:
    - Enable support for multiple cryptocurrencies, providing users with flexibility in payment options.

Admin Dashboard
- Dedicated Interface:
    - A separate, dedicated admin dashboard will be developed for property owners and site administrators.
    - This dashboard will allow for the management of property listings, user accounts, transactions, and other essential functions.
- Data Analytics:
    - Integration of tools for real-time data analytics and reporting.
    - Monitoring of payment transactions, user activity, and

platform performance.

Testing & QA

- Comprehensive Testing:

  Conduct thorough testing at each development phase to ensure the platform is free from bugs and performs efficiently.

  Include both manual and automated testing for UI/UX, functionality, and security.

- User Acceptance Testing (UAT):

  Conduct UAT sessions to gather feedback from real users before the final deployment.

Deployment & Maintenance

Deployment:

  The platform will be deployed on a scalable cloud infrastructure. Ensure seamless deployment with minimal downtime.

Ongoing Maintenance:

  Provide regular updates and maintenance to ensure the platform remains secure and up- to-date.

  Offer support for bug fixes, performance improvements, and feature enhancements.

Project Workflow

Planning & Requirement Gathering

- Initial meetings to define detailed project requirements.
- Creation of wireframes and UI/UX design prototypes.
- Establishment of project milestones and timelines.

Design & Development

- Front-End Development:
  - Completion of all remaining UI components and pages.
  - Integration of dark/light mode and responsiveness.
- Back-End Development:
  - Development of backend API and integration with the front end.
  - Implementation of Web3 for crypto payments.

Testing & QA

- Conducting comprehensive testing and bug fixing.
- User Acceptance Testing (UAT) for final approval.

Deployment

Deploying the platform to

the live environment. Final

checks and troubleshooting.

Post-Launch Support & Maintenance (Ongoing)

Regular updates and maintenance.

Continuous monitoring and performance optimization.

3. Conclusion

Rental Platform is set to redefine rental home transactions by providing a secure, decentralized platform for managing rental payments through cryptocurrency.

With a skilled team, we are confident in delivering a high-quality, responsive, and user-friendly platform that meets all client expectations.

4. Overall Project Budget($/month)

- $14k ~ $18k for a Project Manager Or Team Leader
- $16k ~ $20k for a Blockchain Developer
- $10k ~ $15k for a Backend Developer
- $8k ~ $11k for a Frontend Developer
- $6k ~ $8k for a UI/UX or NFT Art Designer (Hired)

We look forward to collaborating with you on this innovative project.