Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	
Project Name	
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)	
FR-1	User Registration	- Registration through Form	
		- Registration through Gmail	
		- Registration through Facebook	
FR-2	User Confirmation	- Confirmation via Success Message	
		- Manual Admin Approval (Owner only)	
FR-3	User Login	- Login via Email & Password	
		- Session Management with JWT	
FR-4	Role-Based Dashboard	- Admin Dashboard with User/Property Approvals	
		- Owner Dashboard to List/View Properties	
		- Renter Dashboard to View/Book Properties	
FR-5	Property Listing	Add Property with Image Upload	
		- Edit/Delete Listing	
		- Availability Status	
FR-6	Property Booking	- Book Property	
		- Booking Confirmation Status	
		- View Booking History	
FR-7	Admin Controls	- Approve/Reject Owners	
		- View All Bookings	
		- View All Users & Properties	
FR-8	Security & Authentication	- JWT Authentication Middleware	
		- Role-Based Route Protection	
FR-9	UI/UX Features	- Responsive Layout (Bootstrap, MUI)	
		- Toast Notifications (AntD)	
FR-10	Testing&Deployment	- API Testing with Postman	
		- Hosting on Vercel (Frontend) & Render (Backend)	

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description	
NFR-1	Usability	The application provides an intuitive and responsive UI for all user roles.	
NFR-2	Security	JWT-based authentication and role-based access control to ensure data security.	
NFR-3	Reliability	Ensures system reliability through proper exception handling and server uptime.	
NFR-4	Performance	The system handles multiple user requests efficiently with minimal latency.	

NFR-5	Availability	Application is hosted on scalable platforms (Vercel,	
		Render) to ensure uptime.	
NFR-6	Scalability	The system is designed to support an increasing number	per of users and pro