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

Date	
Team ID	PNT2025TMID09657
Project Name	Rentease-HOUSE RENT APP USING MERN
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Login with credentials Login with Gmail Login with LinkedIn Forgot Password / Reset Password
FR-4	Property Listing Management	Add a new property listing Edit an existing property listing Delete a property listing Upload photos and videos Set rental details (price,

FR No.			
		lease terms)	
FR-5	Property Search and Discovery	Search properties by location Filter properties by price range, number of bedrooms, and amenities	
FR-6	Application Submission	Submit an application for a property Upload required documents (ID, proof of income) View the status of submitted applications Receive notifications about application status updates	

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application should be stable and free from crashes. It must handle errors gracefully without data loss, ensuring that critical functions like property listings and application submissions are always operational.
NFR-2	**Security**	The system must protect all user data, including personal information and payment details, using robust authentication and encryption. The application should be resilient against common security threats like SQL injection and cross-site scripting.
NFR-3	**Reliability**	The application should be stable and free from crashes. It must handle errors gracefully without

		data loss, ensuring that critical functions like property listings and application submissions are always operational.
NFR-4	**Performance**	The application must load pages and display search results quickly, ideally within 2-3 seconds, even during peak usage. Actions like submitting an application or a payment should be processed without noticeable delay.
NFR-5	**Availability**	The system must be available to users at least 99.9% of the time. Planned maintenance and downtime should be minimized and communicated in advance.
NFR-6	**Scalability**	The application must be able to support a growing number of users, properties, and transactions without a significant degradation in performance. The architecture should allow for easy expansion of server capacity as the user base increases.