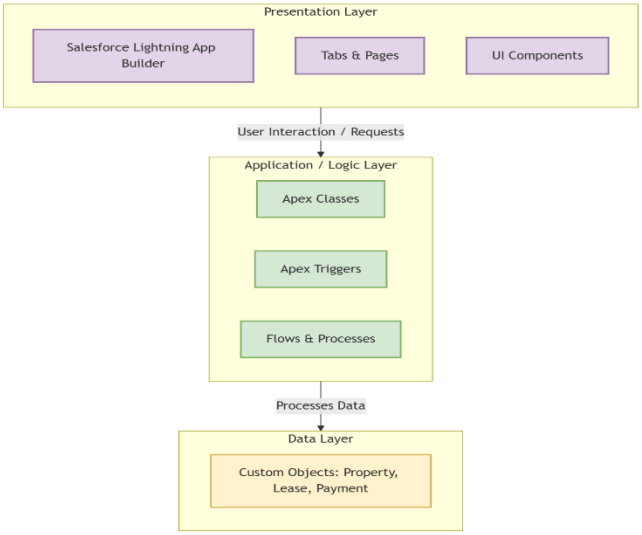
Technology Stack Template

Date	27 October 2025
Team ID	NM2025TMID03953
Project Name	Lease Management System
Maximum Marks	4 Marks

Technical Architecture:

The Lease Management System is built entirely on the Salesforce Lightning Platform, combining both declarative tools (Flows, Process Builder, Validation Rules) and programmatic components (Apex Classes, Triggers).



Technology Stack- A **Technology Stack** is the integrated set of **software tools, frameworks, platforms, and programming languages** used to build, deploy, and maintain an application. It defines how both the **frontend** (user interface) and

backend (server-side logic, database management, and automation) components work together to deliver a complete system.
In the case of the **Lease Management System**, the technology stack leverages **Salesforce technologies** such as **Lightning App Builder**, **Apex**, **Flows**, and **Custom Objects**. These tools collectively create a **robust, secure, and scalable environment** that streamlines **lease management, tenant operations, and payment processing**, ensuring smooth automation and an enhanced user experience.

Category	Technology / Tool	Description / Purpose
Platform	**Salesforce Lightning**	The main development and deployment platform used to build and host the lease management application.
Backend Logic	**Apex Classes & Triggers**	Used to implement backend business logic, automate record updates, and manage system operations.
Automation Tools	**Flows, Process Builder, Validation Rules, Approval Processes**	Automate workflows, approvals, and data validation to reduce manual work.
Database	**Salesforce Objects (Property, Tenant, Lease, Payment)**	Custom objects used to store and manage all lease-related data.
Frontend / UI	**Salesforce Lightning App Builder**	Used to design an interactive and user-friendly interface with custom tabs and layouts.
Communication	**Email Templates & Notifications**	Automate communication between property owners and tenants for payments, approvals, and reminders.
Scheduling & Jobs	**Apex Scheduler / Batch Apex**	Executes scheduled tasks like monthly payment generation and automated reminders.
Security	**Salesforce Role-Based Access Control (RBAC)**	Ensures data protection by defining access levels for Admin, Owner, and Tenant users.
Testing Tools	**Salesforce Developer Console / Apex Test Classes**	Used for testing triggers, flows, and classes to ensure system reliability.
Version Control (Optional)	**GitHub / Bitbucket**	For tracking project updates and maintaining collaborative development.