INTRODUCTION:

1.PROJECT OVERVIEW

The Cosmetic Store Management System is designed to streamline store operations, manage inventory efficiently, and enhance customer experience. This system ensures smooth product management, sales tracking, billing, and customer engagement, reducing manual work and improving business performance.

2.PURPOSE:

Cosmetic Store Management System is to gather, define, and document all necessary system requirements to ensure the efficient management of store operations. It helps in understanding business needs, setting clear functional and non-functional requirements, and designing a system that enhances sales, inventory management, customer engagement, and overall store performance.

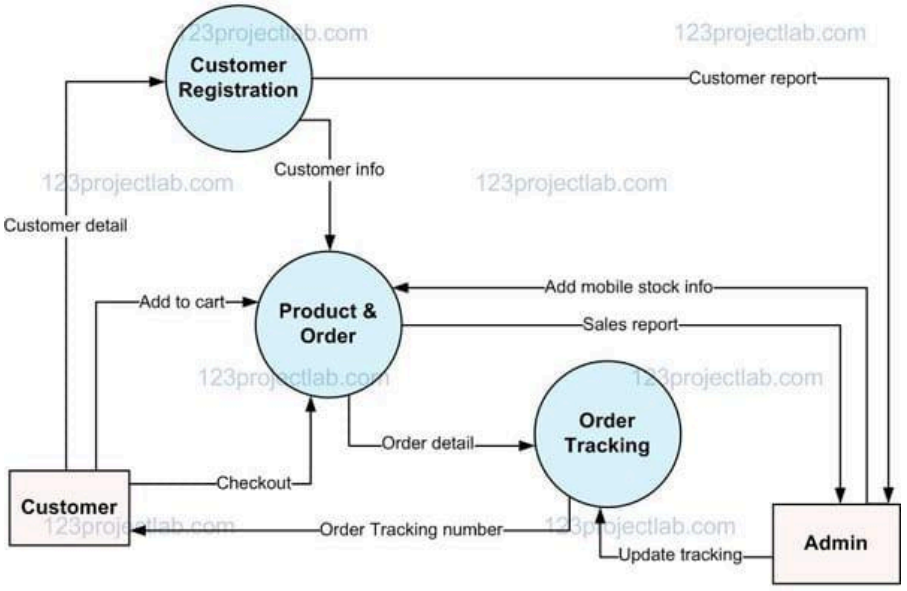
3.COST EFFICIENCY:

Date	31 January 2025
Team ID	LTVIP2025TMID19445
Project Name	Cosmetic store Management
Maximum Marks	4 Marks

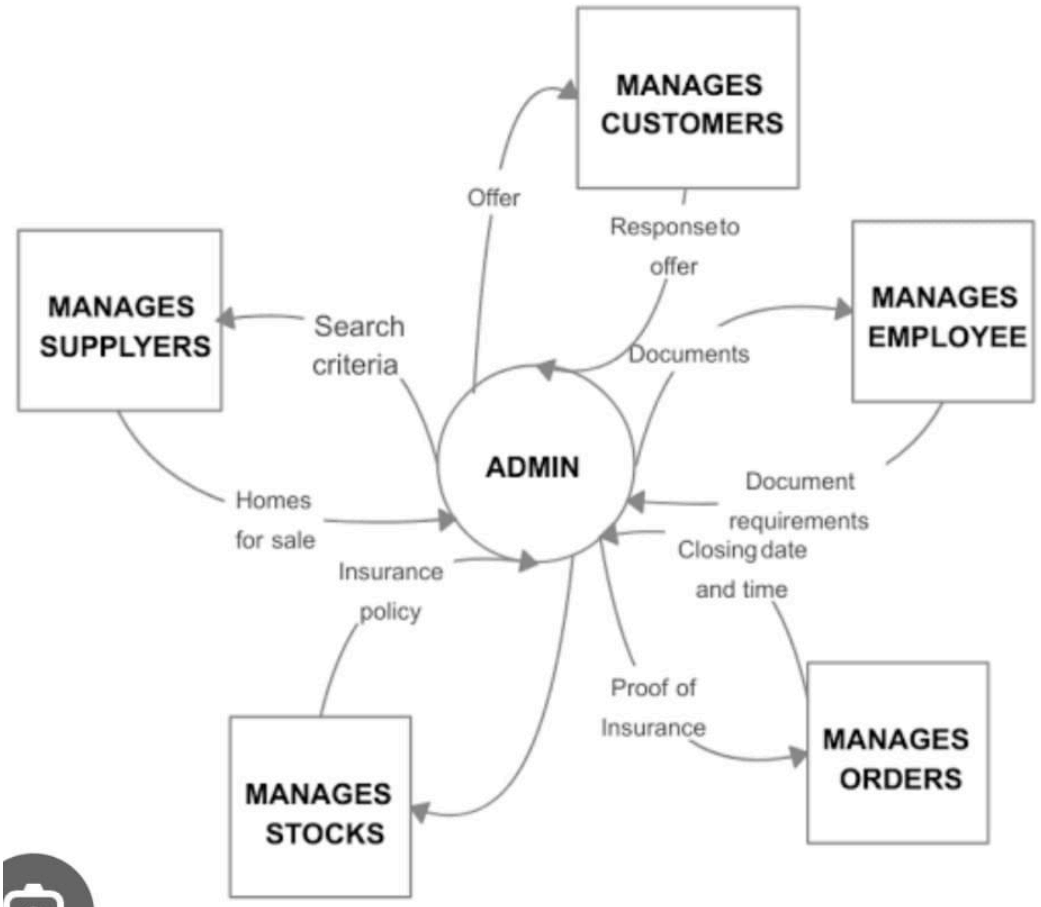
Project Design Phase-II
Data Flow Diagram & User Stories

Data Flow Diagram

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system**Example: (Simplified)**



Level-1 DFD for Online Mobile Shop Management System



User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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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 LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User profile management	View profile Edit profile
FR-4	Data search and retrieval	Search by keyword filter by category

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	In cosmetic store management, usability focuses on ensuring easy and efficient processes for administrators, employees, and customers, improving the overall experience and minimizing potential errors
NFR-2	**Security**	A cosmetic store's security includes measures to protect assets, inventory and data. This encompasses CCTV cameras, alarm systems, secure storage and access control.
NFR-3	**Reliability**	Reliability in cosmetic store management ensures consistent delivery of high-quality products and services. This involves maintaining accurate inventory, efficient supply chain management, and timely resolution of customer issues.
NFR-4	**Performance**	Performance in cosmetic store management refers to the efficient and effective execution of daily operations, driving sales growth, customer satisfaction, and profitability.
NFR-5	**Availability**	Availability in cosmetic store management ensures that products are consistently in stock and accessible to customers, minimizing stockouts and missed sales opportunities.

NFR-6	**Scalability**	Scalability in cosmetic store management refers to the ability to efficiently expand operations, increase inventory, and adapt to growing demand without without compromising performance or customer satisfaction. .

Project Design Phase-II
Technology Stack (Architecture & Stack)

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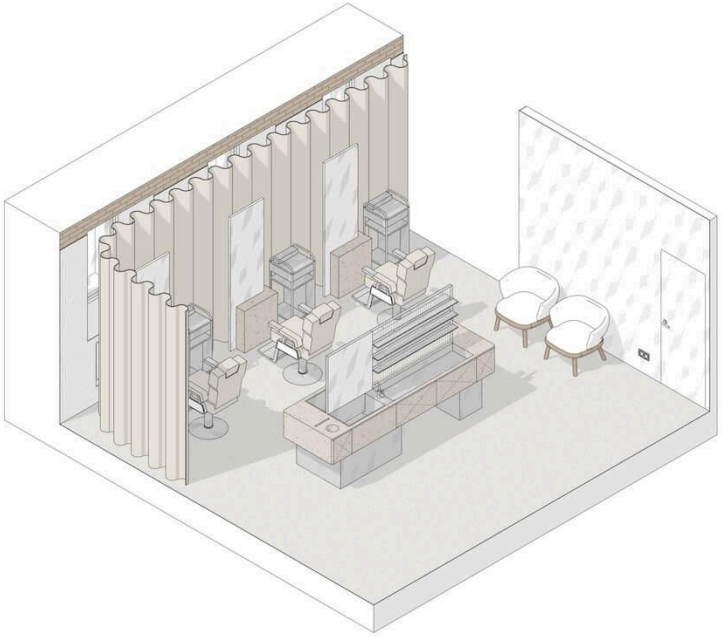
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

Conclusion

The requirement analysis for cosmetic store management highlights the need for a robust and integrated system that ensures security, reliability, performance,

availability, and scalability. By addressing these critical requirements, the system will enable the cosmetic store to efficiently manage its operations, enhance customer satisfaction, and drive business growth.

THANKYOU TEAM SMARTBRIDGE
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