Project Design Phase-II
Data Flow Diagram & User Stories

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Data Flow Diagrams:

A Data Flow Diagram (DFD) visually represents how data moves through the system, showing the relationship between inputs, processes, and data storage. For the **CRM for Jewellery Inventory System**, the DFD illustrates how customer and inventory data are handled within the system to ensure smooth business operations.
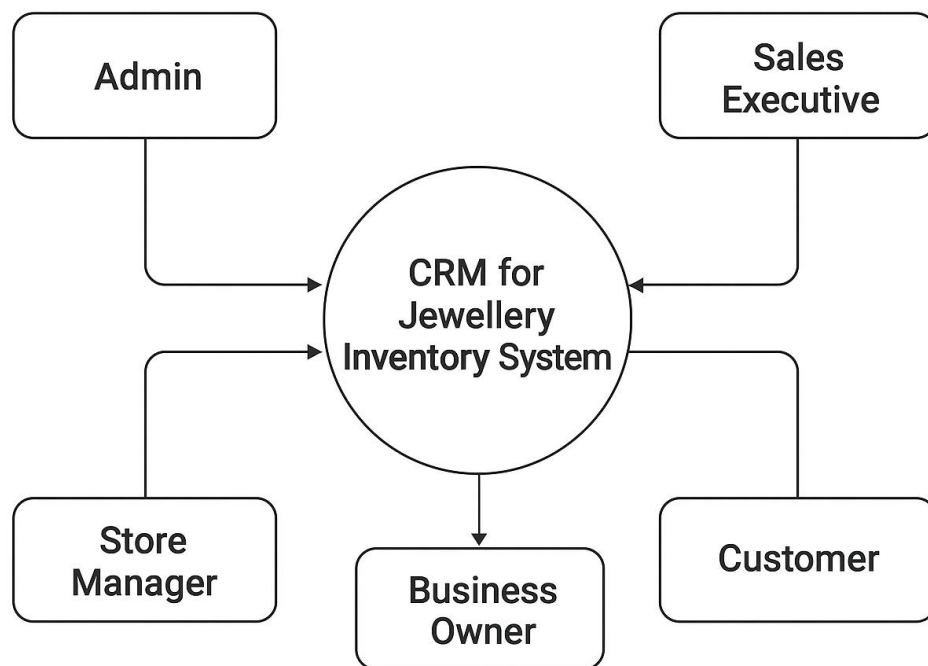
The DFD explains how:

- The **customer** provides input data such as purchase details and preferences.
- The **system** processes this data to update both the **Customer Database** and **Inventory Database**.
- When a **sale** occurs, stock levels are automatically updated and linked with the customer's purchase record.
- The **notification system** uses this information to send reminders, offers, or loyalty messages to customers.

This structured data flow helps jewellery shops maintain accurate inventory records, improve customer engagement, and generate analytical reports for decision-making.

Example: (Insert Level-0 and Level-1 DFD diagrams showing modules like Customer, Inventory, Sales, and Notification System.)

User Stories:

       User stories describe the system requirements from the perspective of end users. For the CRM for Jewellery Inventory System, the stories focus on improving data accuracy, automating business operations, and enhancing customer satisfaction.

These user stories ensure that the system provides all necessary functionalities — from customer registration to billing, inventory updates, and automated notifications. The focus is on delivering a seamless experience for both staff and customers while maintaining operational efficiency.