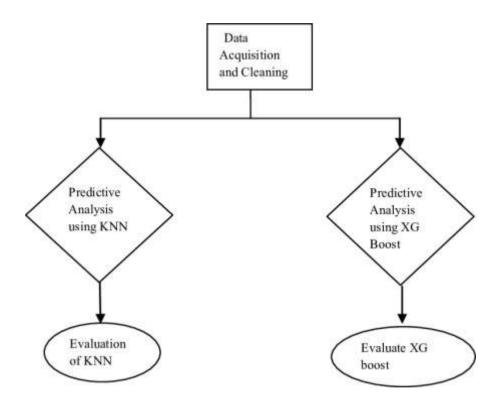
Project Design Phase-II Data Flow Diagram & User Stories

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Project Name	Customer Churn Prediction

Data Flow Diagrams:

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 rightamount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:



User Stories

Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria		Release
Customer Segmentation for Churn Analysis	CHURN-001	As a business analyst, I want to be able to predict customer churn accurately so that the company can take proactive measures to retain valuable customers.	 The system should be able to analyze historical customer data, including but not limited to transaction history, customer interactions, and feedback. The predictive model should be based on machine learning algorithms capable of identifying patterns and trends indicative of potential churn. The system should provide a confidence score or probability for each customer indicating the likelihood of churn. Users should be able to easily access and interpret the churn prediction results through a user-friendly interface or dashboard. The predictive model should be regularly updated with new data to ensure its accuracy and relevance. The system should allow users to customize parameters and input data for the churn prediction model based on specific business needs. Integration with existing customer relationship management (CRM) systems should be seamless for real-time analysis and action. The system should generate alerts or notifications when a high-risk customer is identified, enabling timely intervention. 	High	Sprint-1
Customer Segmentation for Churn Analysis	CHURN-002	As a marketing manager, I want the system to segment customers based on various characteristics, so I can tailor retention strategies to specific customer groups	 The system should allow segmentation based on demographic information, purchase history, engagement levels, and other relevant factors. Users should be able to visualize customer segments through charts and graphs for better understanding. The system should provide insights into the characteristics that contribute most to the likelihood of churn within each segment. 	Medium	Sprint-1
Customer Segmentation for Churn Analysis	CHURN-003	As a customer support representative, I want the system to automatically trigger targeted communication to atrisk customers, so I can address their concerns and prevent churn	 The system should integrate with communication channels (e.g., email, SMS) to send personalized messages to identified at-risk customers. Users should have the ability to customize communication templates and schedules. The system should track the effectiveness of communication in terms of customer retention. 	High	Sprint-1.2
Customer Segmentation for Churn Analysis	CHURN-004	As a data scientist, I want to continuously improve the accuracy of the churn prediction model by incorporating advanced machine learning techniques and feedback from previous predictions.	 The system should allow the integration of new machine learning algorithms for churn prediction. Users should have access to a feedback mechanism to validate and improve the accuracy of predictions. The system should automatically retrain the model periodically to incorporate the latest data and insights. 	High	Sprint-1.3