Project Design Phase-III

Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team - 593038
Project Name	ML Model For Occupancy Rates And Demand In The Hospitality Industry
Minimum Marks	10 Marks(3 components included)

Data Flow Diagrams:

A data flow diagram (DFD) shows how information moves through a system or process. It displays data inputs, outputs, storage locations, and the paths between each location using well-defined symbols like rectangles, circles, and arrows together with brief text descriptions.
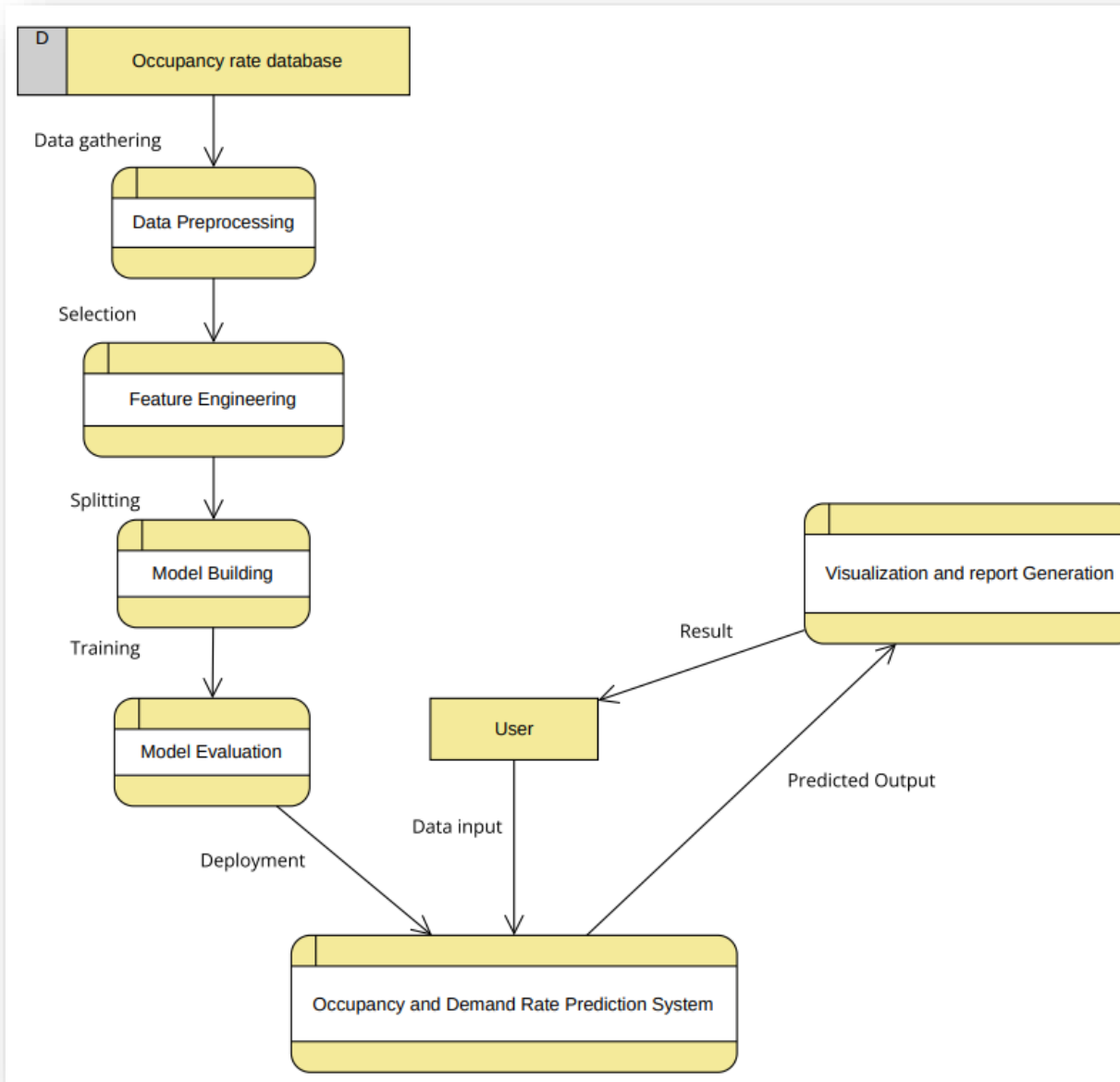
User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Hotel Manager	Occupancy Prediction	USN001	Develop occupancy prediction model using environmental data	- The model should accurately predict occupancy based on temperature, humidity, light, CO2 levels, and humidity ratio.	High	Sprint 1
Revenue Manager	Demand Forecasting	USN002	Build a demand forecasting model with occupancy as a feature	- The model should provide accurate demand forecasts considering environmental influences	High	Sprint 1
Data Analyst	Seasonal Patterns Analysis	USN003	Analyze seasonal occupancy patterns based on environmental data	- The model should identify seasonal occupancy patterns using temperature, humidity, light, CO2 levels, and humidity ratio.	Medium	Sprint 2
Data Scientist	External Factors Impact Analysis	USN004	Study the impact of external factors on occupancy with feature data	- The model ought to examine the impact of external elements on occupancy, taking into account the external factors	High	Sprint 2