Project Design Phase-II

Data Flow Diagrams & User Stories

| Date	26 October 2023
Team ID	7.3
Project Name	AI system that verifies user identities based on their online behavior patterns, adding an extra layer of security.
Maximum Marks	4Marks

Data Flow Diagrams:

Simplified:
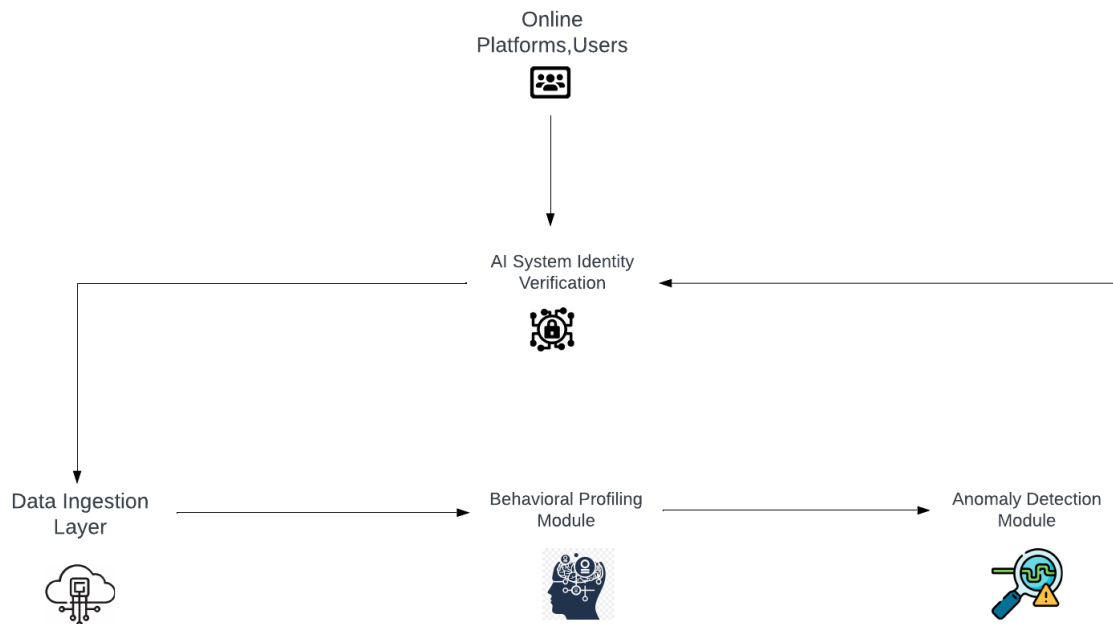
External entities, including online platforms and users, interact with the AI-driven identity verification system. Data flows represent the information flow between components, processes, and external entities. Processes include data ingestion, behavioral profiling, anomaly detection, authentication, notification, data storage, integration, monitoring, scalability, security, cloud infrastructure, AI model training, and geographic distribution. Data stores store user profiles and anomaly data. The primary process, "AI System Identity Verify," includes the Data Ingestion Layer, Behavioural Profiling Module, and Anomaly Detection Module.

DFD Level-0(Industry Standard):
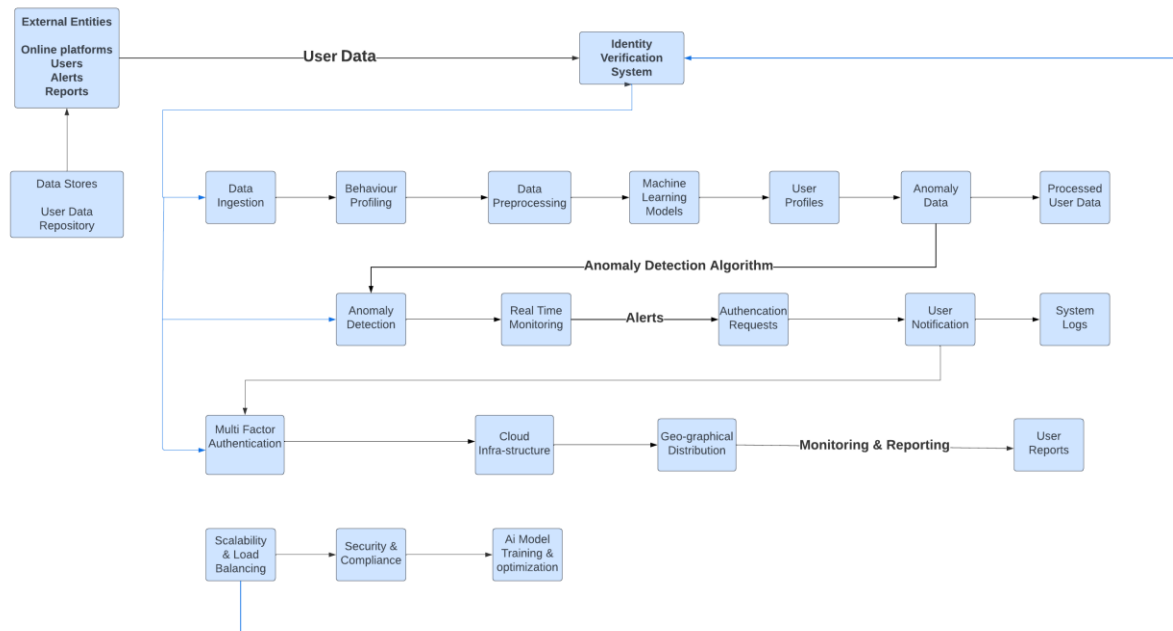
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
Admin, End User	User Data Collection	US1	As an admin, I want to collect user data for analysis	Gather data from multiple sources	High	Sprint 1
Admin, End User	Data Processing	US2	As a system, I need to clean and preprocess user data	Clean and normalize data	High	Sprint 1
Admin, End User	Behavioural Profiling	US3	As a system, I need to build user behaviour profile	Utilize machine learning for profiling	High	Sprint 2
Admin, End User	Anomaly Detection	US4	As a system, I need to detect anomalies in user behaviour	Identify irregular patterns in real-time	High	Sprint 2
Admin, End User	Multi-Factor Authentication	US5	As a user, I want multi factor authentication	Implement 2FA for users	High	Sprint 3
Admin, End User	User Notification	US6	As a system, I need to notify users of anomalies	Send alerts and guidance	Medium	Sprint 3