

Project Design Phase-II

Data Flow Diagram & User Stories

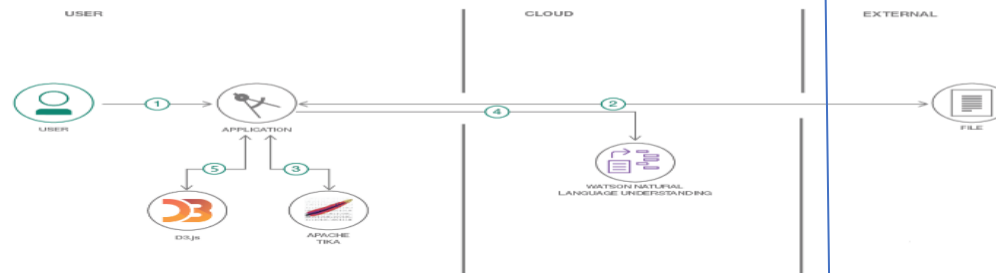
Date	13 May 2023
Team ID	NM2023TMID09663
Project Name	Perinatal Health Risk Prediction using Machine Learning

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

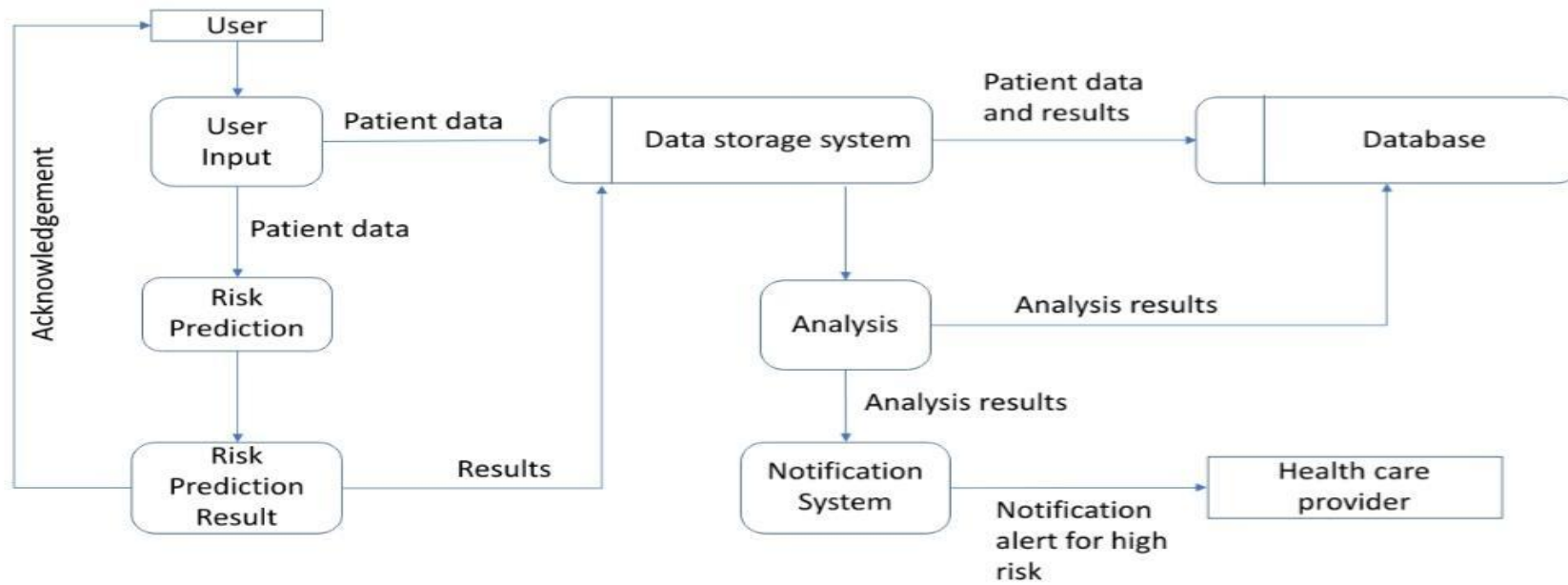
Example: [\(Simplified\)](#)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

Perinatal Health Risk Prediction Data Flowchart



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	Team Member
User	Registration	USN-1	As a user, I can register and login for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Nivetha
User	Confirmation	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	Manasa
User	Registration	USN-3	As a user I want to register using my email Facebook accounts	I can access my dashboard using my mail or facebook account	Low	Pavithra
User	Communication	USN-4	As a user I want the interface to be understandable and pleasant for better user experience	I can easily understand the interface and it looks pleasant.	Medium	Priya
User	Risk Assessment	USN-5	As an expecting mother with a history of gestational diabetes, I want to assess my risk of developing gestational diabetes again during this pregnancy	I can assess my gestational diabetes risk	High	Manasa
User	Risk Assessment	USN-6	As a expecting mother, I have certain doubts about my health condition and I want to check them whenever needed.	I can assess my health condition whenever needed	High	Priya
Health care provider	Risk Assessment	USN-7	As a healthcare provider working, I want to use a perinatal health risk prediction tool to identify pregnant women who are at high risk for preterm labor	I can predict my patient risk for preterm labor	High	Nivetha
User	Data Collection and Integration	USN-8	As a user I want to know about my health condition automatically from my wearable devices or other electronic health records.	I can assess my health condition automatically from my wearable devices and other electronic health records	Medium	Pavithra
Health care provider	Communication	USN-9	As a health care provider I want to get notifications when my user is at risk	I can get notifications	High	Nivetha