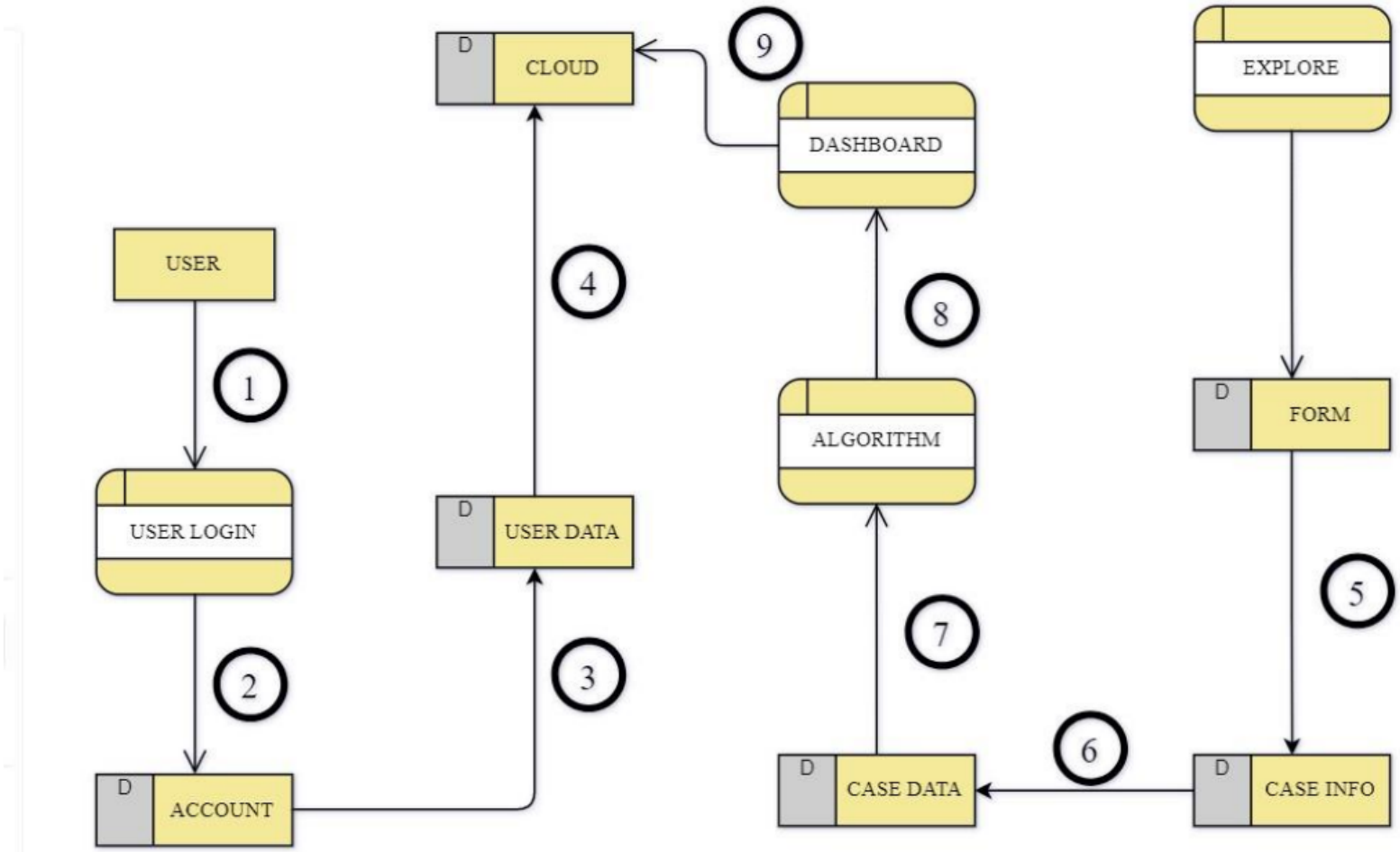
Project Design Phase-II
Data Flow Diagram & User Stories

Date	8 November 2023
Team ID	Team-591602
Project Name	FetalAI: USING MACHINE LEARNING TO PREDICT AND MONITOR FETAL HEALTH
Maximum Marks	4 Marks

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.

Here is the Data Flow Diagram for Envisioning Success project


USER
1
USER LOGIN
2
D
ACCOUNT
3
D
USER DATA
4
D
CLOUD
9
DASHBOARD
8
ALGORITHM
7
D
CASE DATA
6
D
CASE INFO
5
D
FORM
EXPLORE

1. Users successfully complete the registration process.
2. Within the Web App's Explore section, users are prompted to input specific characteristics.
3. The provided Case Info undergoes a seamless transformation into formatted Case Data.
4. The transformed Case Data serves as input for the FetalAI algorithm.
5. The algorithm processes the data, predicts the score, and presents the results on a dynamic dashboard.

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
Customer (Mobile user)	Registration	USN-1	As a mobile user, I can register for the application by entering my email, password, and confirming my password.	● Successfully entering email, password, and confirming password leads to account creation. ● Access to the FetalAI dashboard is granted upon	High	Sprint-1

				successful registration.		
		USN-2	As a mobile user, I will receive a confirmation email once I have registered for the FetalAI application.	• Receive a confirmation email after successful registration. • The confirmation email should contain a clickable link to confirm the registration.	High	Sprint-1
		USN-3	As a mobile user, I can register for the FetalAI application through smartbridge internz platform.	Successful registration and access to the FetalAI dashboard using smartbridge internz credentials.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	Successful registration and access to the FetalAI dashboard through Gmail.	Medium	Sprint-1

	Login	USN-5	As a mobile user, I can log into the FetalAI application by entering my email and password.	Successfully entering a valid email and password leads to login.	High	Sprint-1
	Dashboard	USN-6	As a user of the FetalAI application, I want to view all the details related to the health predictions of the selected pregnancies.	Access to a dashboard displaying comprehensive details about the health predictions of selected pregnancies.	High	Sprint-1
	Best Algorithm Finding	USN-7	Trying out all the available algorithms in order to find which one gives the best accuracy rate	Ability to filter and sort predictions based on parameters such as gestational age, health risk levels, and other relevant factors.	High	Sprint-1

	Finding correlations	USN-8	We have a huge number of 21 parameters which can be hectic to handle, hence we shall find correlated columns and eliminate them.	● Access a user-friendly dashboard offering comprehensive insights into health predictions for selected pregnancies. Explore predicted health parameters, receive recommendations, and view relevant data visualizations. Utilize convenient filters and sorting options based on parameters like	High	Sprint-1

				gestationalage, health risk levels, and other relevant factors.		
Customer (Web user)	WebUI development	USN-9	Access to the homepage after validating the FetalAI profile to ensure accurate and personalized predictions.	Access a user-friendly dashboard that provides in-depth insights into health predictions for selected pregnancies. Explore various predicted health parameters, receive tailored recommendations.	High	Sprint-2
	Logo requirement	USN-10	Find or design an apt logo for the WebUI	The logo should reflect the essence of FetalAI, conveying a sense of health, pregnancy, and advanced technology. The colors used in the logo should be	Medium	Sprint-1

				harmonious with the color scheme of the WebUI, promoting visual consistency.		
	Defining Description	USN-11	A detailed information about the application, its uses, and its application should be available for the users in order to understand better about the model.	The information should be easily accessible within the application, preferably through a dedicated section or help center.	Medium	Sprint-2
Customer Care Executive	Contact us page	USN-12	In order to allow the users to post further queries, a contact us part of the page must be made available with the details of our team in it and how to contact us.	Include a mechanism for users to provide feedback on the "Contact Us" process, ensuring continuous improvement and addressing any issues promptly.	Medium	Sprint-3
Administrator	Further contraction of parameters	USN-13	Though we have 16 parameters now, it is still a big number of inputs for the users to deal with, hence, we must further decrease them.	The reduction in the number of parameters aims to enhance the overall usability of the application, making it	High	Sprint-3

				more user-friendly.		
	Back Navigator	USN-14	A button must be provided for the users to return to the predictor_inputs page to start predicting from the model again	Use an intuitive icon or label for the button to clearly convey its purpose, ensuring users understand that clicking it will take them back to the predictor_inputs page.	Low	Sprint-4
	Reset button	USN-15	A reset button may help the user to reset all the	Ensure that the reset button is integrated with all relevant form elements on the predictor_inputs page.	Low	Sprint-4
	Suggestions division	USN-16	Create a division in the result page that displays the suggestion of steps to be followed based on the predicted output of the fetal condition.	Perform thorough testing to validate that the displayed suggestions are dynamically linked to the predicted output. Check for different scenarios and ensure the correctness of the	Medium	Sprint-4

				displayed information.		