

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	November 14, 2023
Team ID	592207
Project Name	Predicting Mental Health Illness of Working Professionals Using Machine Learning
Maximum Marks	4 Marks

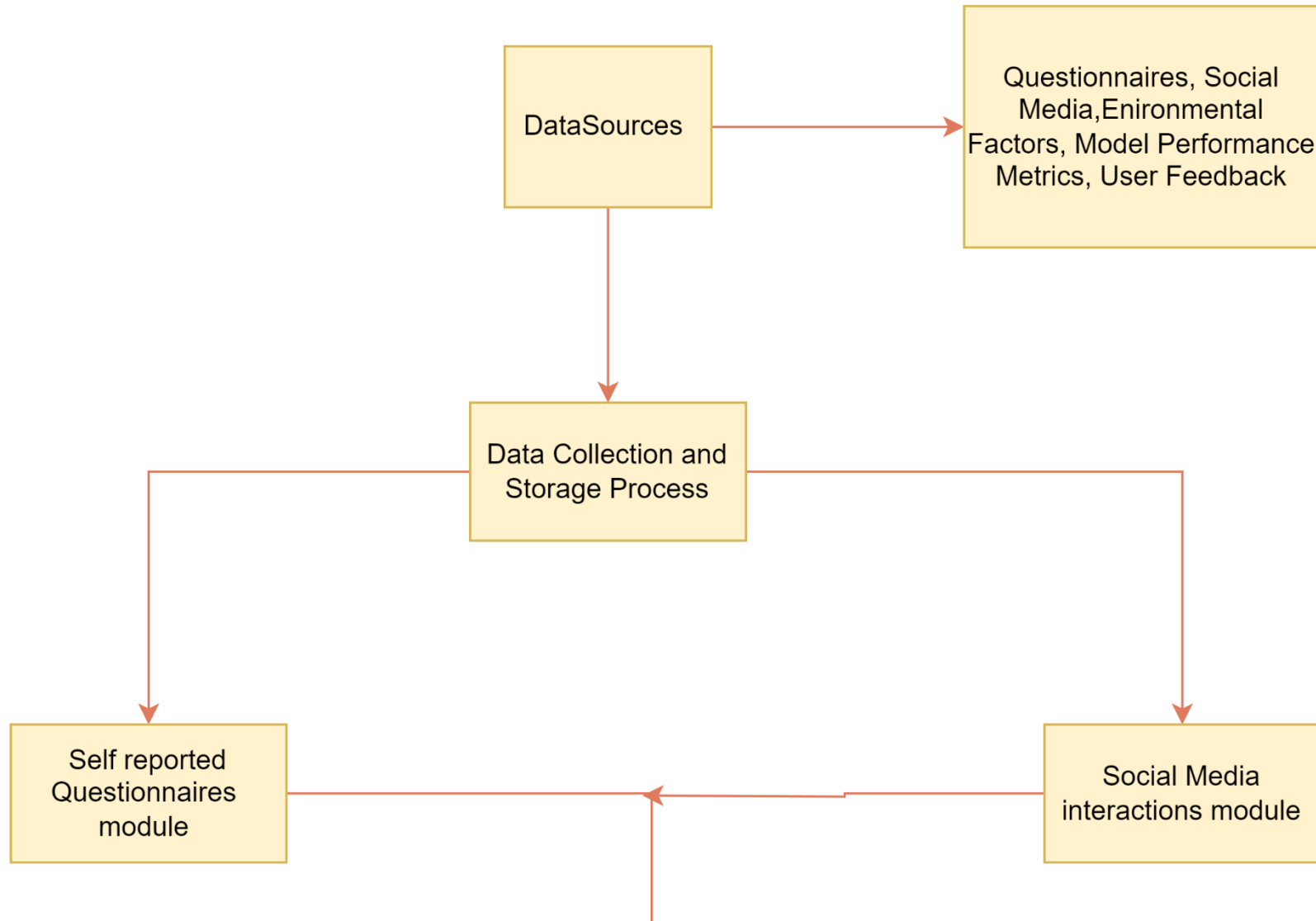
#### Data Flow Diagrams:

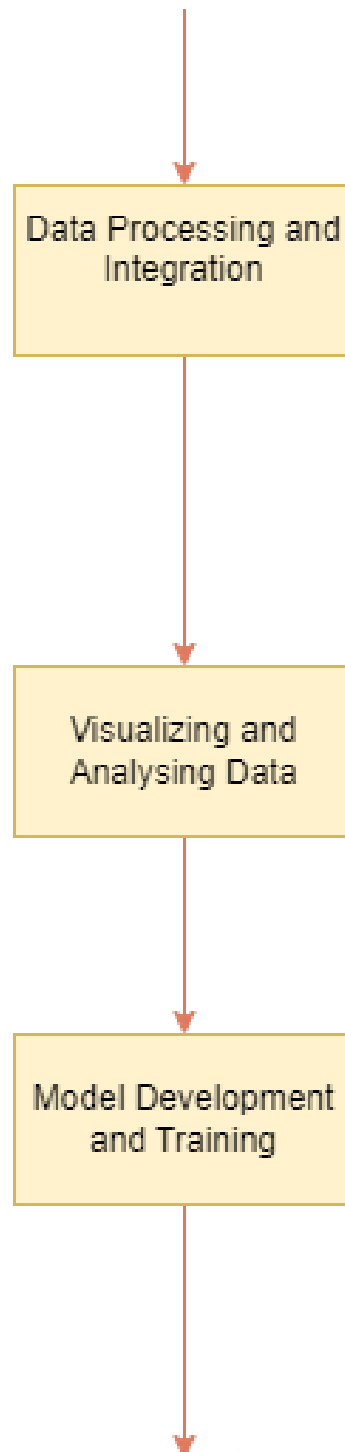
The provided Data Flow Diagram (DFD) describes the flow of information and processes within a Mental Health Prediction System. It outlines the various components involved in collecting, processing, and utilizing data to predict and assess individuals' mental health. The system begins with diverse data sources, including questionnaires, social media interactions, environmental factors, model performance metrics, and user feedback.

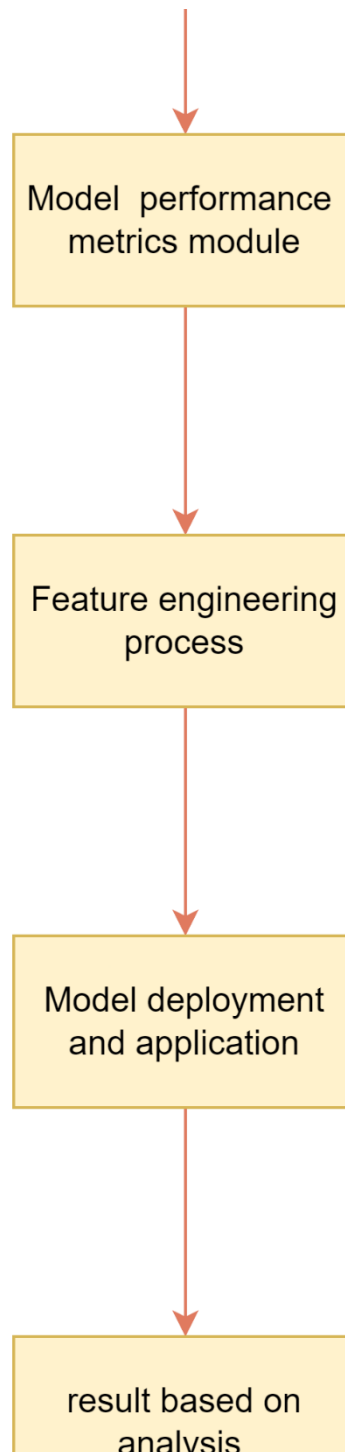
The data then undergoes a comprehensive Data Collection and Storage Process, where specific modules handle the different types of inputs. The Feature Engineering Process refines the data for optimal modeling. The system then progresses through key stages, including Model Development and Training, Model Deployment and Application, and Model Monitoring and Evaluation Processes.

The processed data is stored in a User Data Warehouse, providing a centralized repository for organized storage. Simultaneously, trained machine learning models find a home in the Model Repository, ready to be deployed for real-time predictions. The structured arrangement and interconnections depicted in the DFD showcase how each component contributes to the overall functionality of the mental health prediction system, from data collection to model development, deployment, and ongoing evaluation.

## DATA FLOW DIAGRAM OF A MACHINE LEARNING MODEL TO PREDICT MENTAL HEALTH







## 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 user, I can register for the application by entering my email, password, and confirming my password	1. The registration form should include fields for email, password, and password confirmation 2. Upon successful registration, the user should be able to access their account/dashboard	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1. Users should receive a confirmation email after registering 2. The email should contain a confirmation link 3. Clicking the confirmation link should confirm the registration	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook.	1. Users should have the option to register using their Facebook credentials  2. After registration, users should be able to access the dashboard	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	1. Users should have the option to register using their Gmail credentials.  2. After registration, users should be able to access the dashboard.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	1. The login page should have fields for entering email and password 2. Successful login should redirect the user to their dashboard	High	Sprint-1

Customer (Web user)	Dashboard	USN-6	I can view a personalized dashboard	1. The dashboard should display relevant information based on the user's account 2. Information could include account details, recent activity, et	Medium	Sprint-2
		USN-7	As a user, I can log into the application by entering email & password.	1. The login form should be accessible on the web app 2. The user should receive an error message if they do not enter all of the required information	High	Sprint-1
Customer Care Executive	Customer Management	USN-8	As a customer care executive, I can view a list of all customers cus	1. The list of customers should be searchable by customer name, email address, and phone number 2. The list of customers should be searchable by customer name, email address, and phone number	High	Sprint-1
		USN-9	As a customer care executive, I can view a customer's profile information	1. The customer's profile information should include their name, email address, phone number 2. The customer care executive should be able to update the customer's profile information	Medium	Sprint-2
		USN-10	As a customer care executive, I can respond to a customer's support ticket	The customer care executive should be able to view the customer's support ticket, including the ticket number, ticket subject, ticket description, and any attachments. - The customer care executive should be able to reply to the customer's support ticket	Medium	SPrint-3