Project Design Phase II
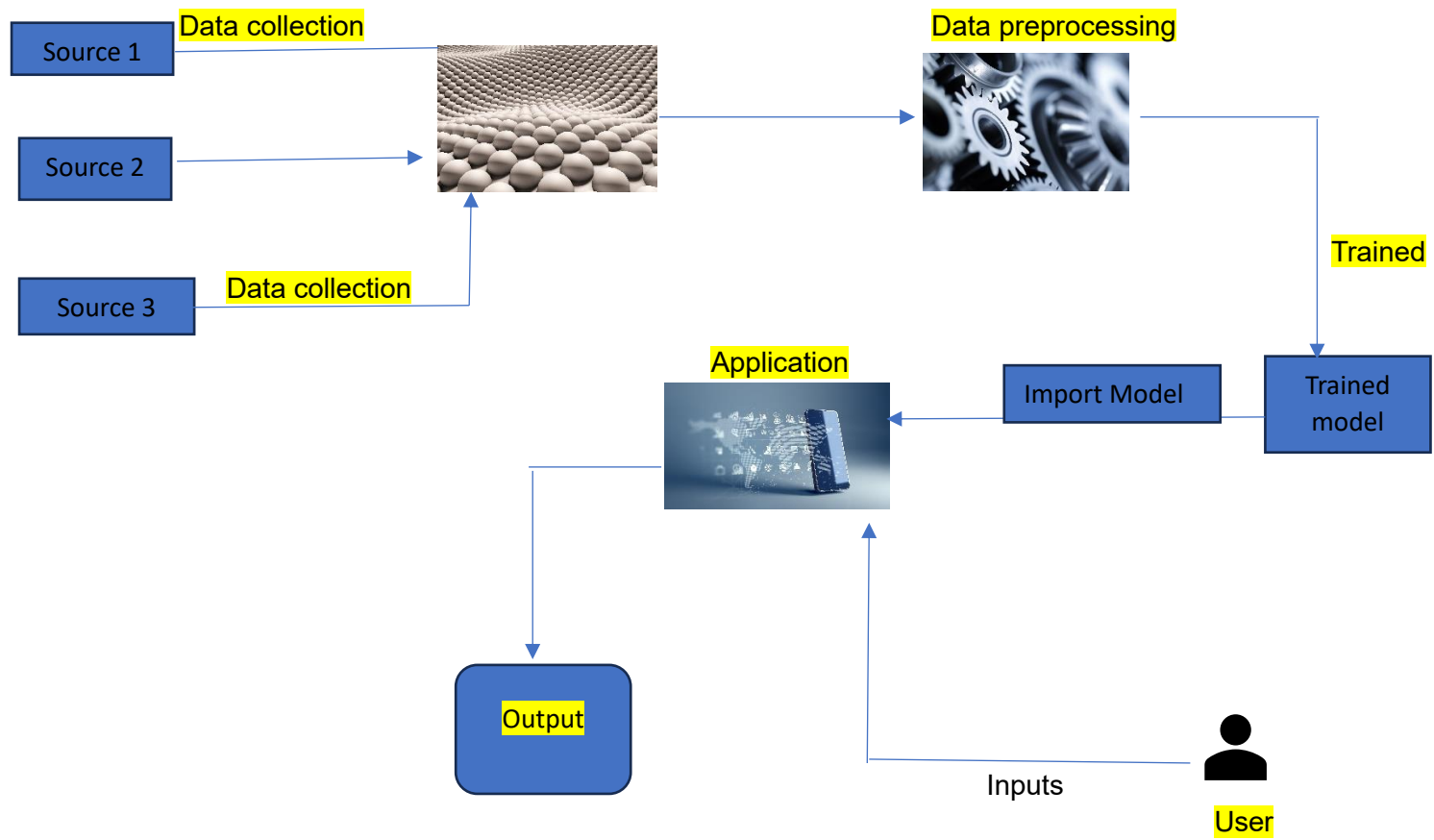# Data Flow Diagram
&
User stories

Date	17 November 2023
Team ID	591754
Project Name	Predicting Mental Health Illness of Working Professionals
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.

Data collection

Source 1

Source 2

Source 3

Data collection

Data preprocessing

Trained

Trained model

Import Model

Application

Output

Inputs

User

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Working Professionals	The system should have a user registration module with fields for personal details, work-related information, and historical mental health data.	USN-1	As a working professional, I want to register on the platform and input my data so that the system can analyze my mental health.	the registration form is accessible. All mandatory fields are validated. User data is stored securely.	High	Sprint 1
Data Scientist	The system should include a data preprocessing module to clean and format raw user data.	USN-2	As a user, I want the system to preprocess my data to ensure accurate analysis.	Raw data is successfully imported. Data cleaning processes are applied. Formatted data is stored for analysis.	medium	Sprint 2
HR	The system should implement a feature extraction process to identify key factors for mental health analysis.	USN-3	As a user, I want the system to extract relevant features for mental health prediction.	feature extraction algorithms are applied	medium	Sprint 2

Data Scientist	The system should include a machine learning model training module using historical data and extracted features.	USN-4	As a data scientist, I want the system to train a machine learning model using historical and extracted data..	Machine learning model is trained successfully.	High	Sprint 3
System Administration	The system should perform a risk priority assessment based on predicted user types and historical data.	USN-5	As a system administrator, I want the platform to assess the priority of mental health risks for intervention.	Priority levels are assigned accurately.	High	Sprint 3
Business Analyst	The system should generate notifications and reports for users based on risk priority assessments.	USN-6	As a user, I want to receive notifications and reports regarding my mental health prediction and priority level.	Reports are accessible and informative.	High	Sprint 3
Manager and Supervisiors	The system should provide managers and supervisors with access to a dashboard that flags employees who are at high risk of mental health distress.	USN-7	As a manager or supervisor, I want to be able to identify signs of mental health distress in my employees so that I can have conversations with them about their mental health and direct them to appropriate resources.	The dashboard should provide managers and supervisors with information about the signs of mental health distress, and it should also provide them with resources for talking to	High	Sprint 1

				their employees about mental health.		