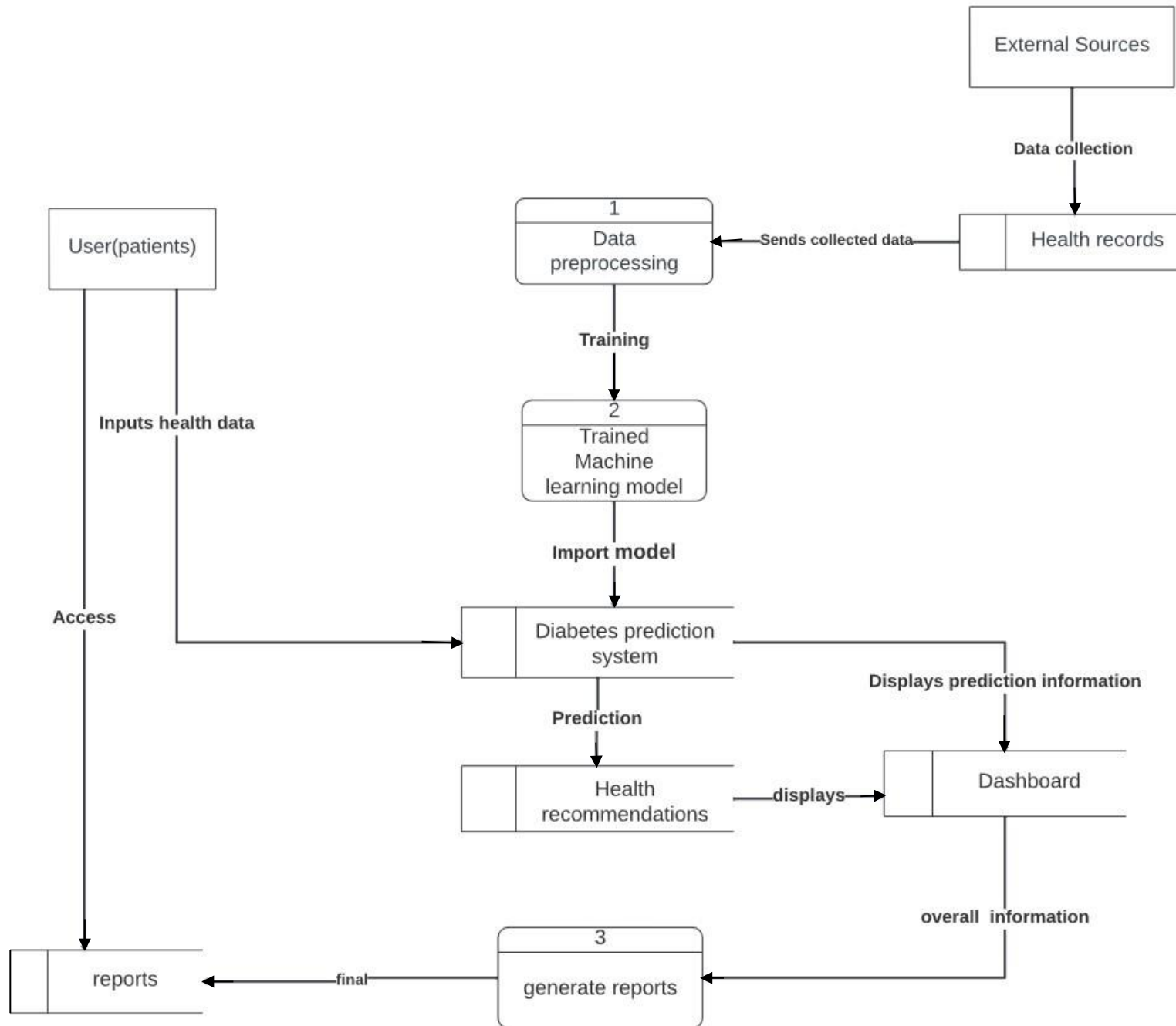


## **Project Design Phase-II Data Flow Diagram & User Stories**

<b>Date</b>	<b>23 October 2023</b>
<b>Team ID</b>	Team-592372
<b>Project Name</b>	<b>Diabetes Prediction Using Machine Learning</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

**Data Flow Diagram for Diabetes Prediction using ML:**



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Healthcare Professionals	Predict Diabetes Onset	USN-1	As a medical care proficient, I need to enter patient wellbeing records and pertinent boundaries to foresee the beginning of diabetes.	The framework ought to acknowledge input information including pulse, BMI, heart illnesses, cholesterol levels, age, family ancestry, and way of life propensities.	High	Sprint 1
Healthcare Institutions and local government	Data collection	USN-2	As a medical care establishments, I need to gather and Accumulate a complete dataset of wellbeing records and significant boundaries for preparing the diabetes expectation model.	As a medical services organizations, I need to gather and Assemble a far reaching dataset of wellbeing records and significant boundaries for preparing the diabetes expectation model.	High	Sprint 1
Researchers and Academics	data preprocessing	USN-3	Preprocess the gathered dataset by cleaning, normalizing, and parting it into preparing and approval sets.	Successfully clean and preprocess the dataset, handling missing values, outliers, and data inconsistencies.	High	Sprint 2
Healthcare Professionals	Model Development & Training	USN-4	select the most appropriate model for anticipating diabetes beginning and Train the chose AI model utilizing the preprocessed dataset.	Train the model using the preprocessed dataset. Monitor and optimize the model's performance on the validation set	High	Sprint 3
System Administrators	Model Deployment & Integration	USN-5	As a framework Chairman, I need to convey the prepared AI model as a help or programming interface and coordinate it into and easy to understand interface.	Develop a user interface for individuals to input their health records and receive diabetes prediction results.	medium	Sprint 4
Individuals/Patients	Personalized Risk Assessment	USN-6	As an individual, I need to enter my wellbeing information into the framework to get a customized risk evaluation for diabetes beginning.	The report should explain the factors that contribute to their risk of diabetes, and provide recommendations for reducing their risk	medium	Sprint 5
Researchers And Academics	Model Evaluation and Enhancement	USN-7	As a scientist, I believe that devices should assess the viability of the diabetes forecast model and constantly upgrade its presentation.	Implement model evaluation metrics (e.g., accuracy, precision, recall).	medium	Sprint 5