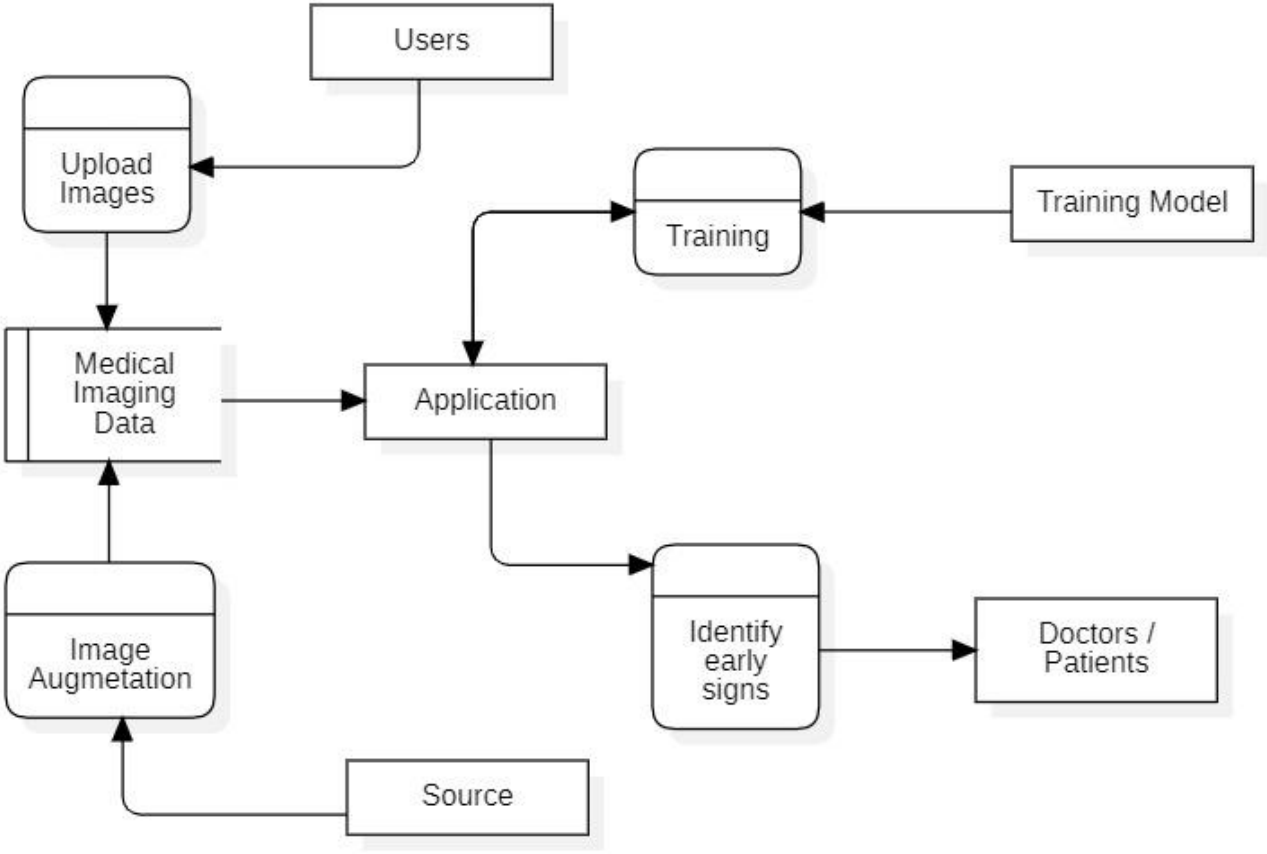
Project Design Phase-II
Data Flow Diagram & User Stories

Date	04 November 2023
Team ID	Team - 592796
Project Name	Alzheimer Disease Prediction
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.



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Healthcare professionals	Project setup & infrastructure	USN-1	Set up the necessary infrastructure for the Alzheimer's disease prediction project using deep learning.	Infrastructure is successfully set up for the project.	Medium	Sprint 1
Researchers	Development environment	USN-2	Set up the development environment with the required tools and frameworks to start the Alzheimer's disease prediction project using deep learning.	Development environment is properly configured and ready for use.	Medium	Sprint 1
Data scientists	Data collection	USN-3	Gather a diverse dataset of medical imaging data, genetic information, and cognitive assessments for training the deep learning model for Alzheimer's disease prediction.	Sufficient and representative data is collected for training the model.	HIgh	Sprint 2
Neurologists	Data preprocessing	USN-4	Preprocess the collected dataset by cleaning, normalizing, and transforming the data to make it suitable for training the deep learning model.	Data is cleaned, normalized, and prepared for training.	High	Sprint 2
Patients and Caregivers	Model development	USN-5	Explore and evaluate different deep learning architectures (e.g., CNNs, RNNs) to select the most suitable model for Alzheimer's disease prediction.	Deep learning model is developed and ready for training.	High	Sprint 3
Medical Institutions	Training	USN-6	Train the selected deep learning model using the preprocessed dataset and monitor its performance on a validation set.	Model is trained on the data and achieves satisfactory performance.	High	Sprint 3

	Model deployment & integration	USN-7	Deploy the trained deep learning model as an API or web service to make it accessible for Alzheimer's disease prediction. Integrate the model's API into a user-friendly web interface for users to input relevant data and receive Alzheimer's disease prediction results.	Model is successfully deployed and integrated into the system.	Medium	Sprint 4
	Testing & quality assurance	USN-8	Conduct thorough testing of the model and web interface to identify and report any issues or bugs. Fine-tune the model's hyperparameters and optimize its performance based on user feedback and testing results.	Model passes all tests and meets the required quality standards.	Medium	Sprint 4