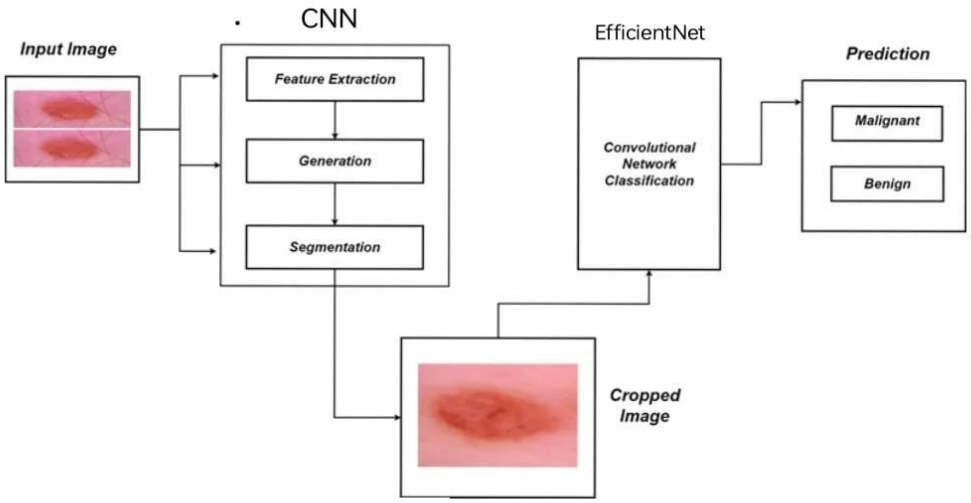
Project Design Phase-II
Data Flow Diagram & User Stories

Date	2 November 2023
Team ID	Team-592277
Project Name	End-To-End Deep Learning Project For Detecting Melanoma Diseases
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	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools, frameworks and libraries to start the detection or predicting Alzheimer's disease	completed setting all necessary tools, frameworks and libraries	High	Sprint-1
Researchers	Developing environment	USN-2	Gather a diverse dataset of lesions in different parts of the body for training the Deep learning model	Gathered a diverse dataset of images depicting various stages of disease	High	Sprint-1
Public Health Officials	Feature extraction	USN-3	Feature extraction involves automatically identifying and selecting significant patterns or attributes from raw data, enabling models to focus on prediction.	We could remove the unwanted from the dataset and focus on the patterns	High	Sprint-2
Educational Institutions	Data preprocessing	USN-4	Evaluate different deep learning architectures (e.g., CNNs) to select the most suitable model for predicting	Discovering various deep learning algorithms and focusing on the best one	High	Sprint-2
Different Company's	Model development	USN-5	Train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	To increase the models performance	High	Sprint-3
Specific Hospitals (Beta testing)	Training	USN-6	Train the selected deep learning model using the preprocessed dataset and monitor its performance under doctors and other trained professionals	To train the model to the max	High	Sprint-4
Specific Hospitals (Beta testing)	Prediction	USN-7	When the particular image scan is inserted into the model it will classify it with the pre-trained model and predict the stage of cancer	To get the best prediction	Medium	Sprint-4
General Public	Model deployment	USN-8	Deploy the trained deep learning model as an web service which can be accesd by genral public to check whether they have Melanoma	Acceptance of the public	Medium	Sprint-5