Project Design Phase-II

Data Flow Diagram & User Stories

Date	23 October 2023
Project Name	Project – Image Caption Detection
Maximum Marks	4 Marks

Data Flow Diagram:

The following Data Flow Diagram (DFD) illustrates the flow of data and processing steps within an Image Caption Detection System. This system enables users to upload images and receive automatically generated captions. The process encompasses image preprocessing, feature extraction and caption generation resulting in refined captions displayed to the users through a user interface or accessible via an application programming interface (API).
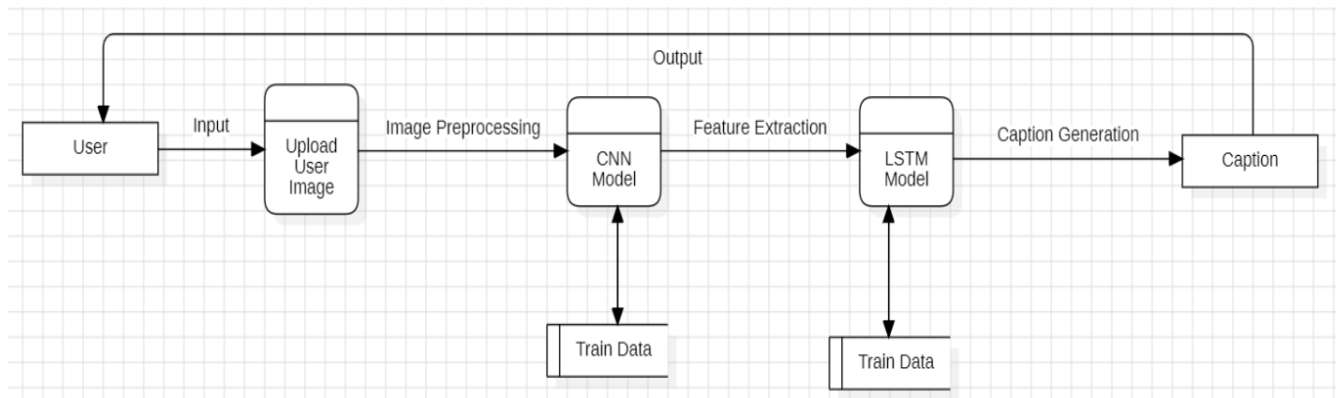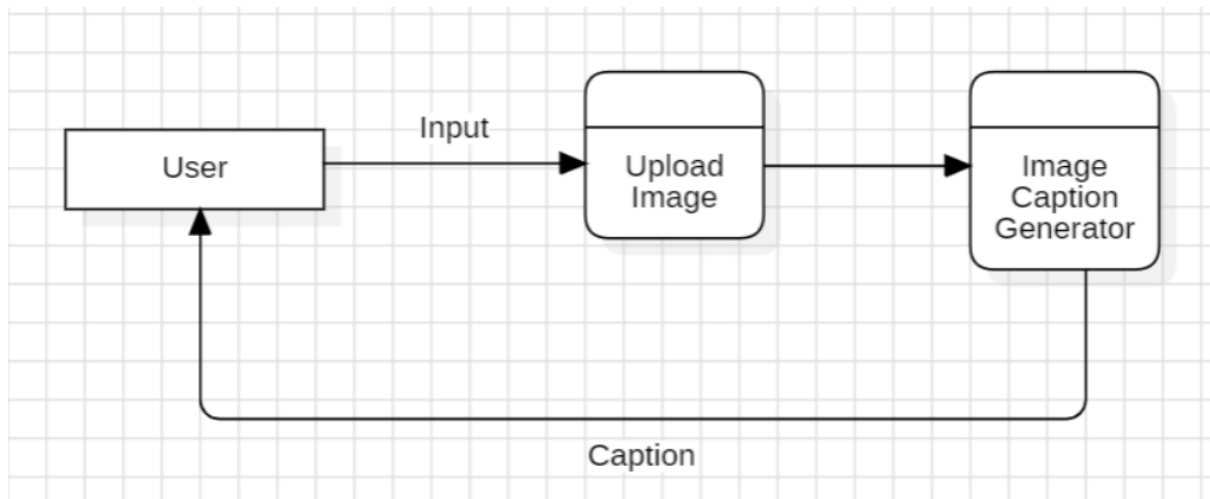
User Stories :

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
End User	Caption Detection	USN - 1	As an end user, I want to upload an image to the image caption detection system, so that I can receive a generated caption for the image.	I can upload an image and Generate a caption related to it.	High	Initial Release
Content Moderator	Quality Control	USN - 2	As a content moderator, I want the ability to review and approve generated captions for images, so that inappropriate or low-quality captions can be filtered out.	I can view the image and its associated generated captions and approve or reject the generated caption.	Medium	Sprint-2
AI model trainer	Model training and Improvement	USN - 3	As an AI model trainer, I want to be able to retrain the image caption generation model with new data and updated algorithms, so that the system continues to improve over time.	The system continuous to improve and model retraining process should be automated and robust.	High	Sprint-1
Mobile Application user	Mobile Integration	USN - 4	As a user of the mobile application, I want to have the capability to use the image caption detection system directly from my mobile device, so that I can quickly and conveniently generate captions for images on the go.	The mobile app provides an intuitive interface for capturing or selecting images.	Low	Sprint-3