Project Design Phase-II
Data Flow Diagram & User Stories
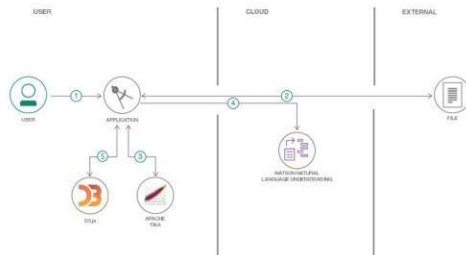
Date	02 November 2023
Team ID	598189
Project Name	Project - Image Caption Generation
Maximum Marks	4 Marks

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 rightamount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
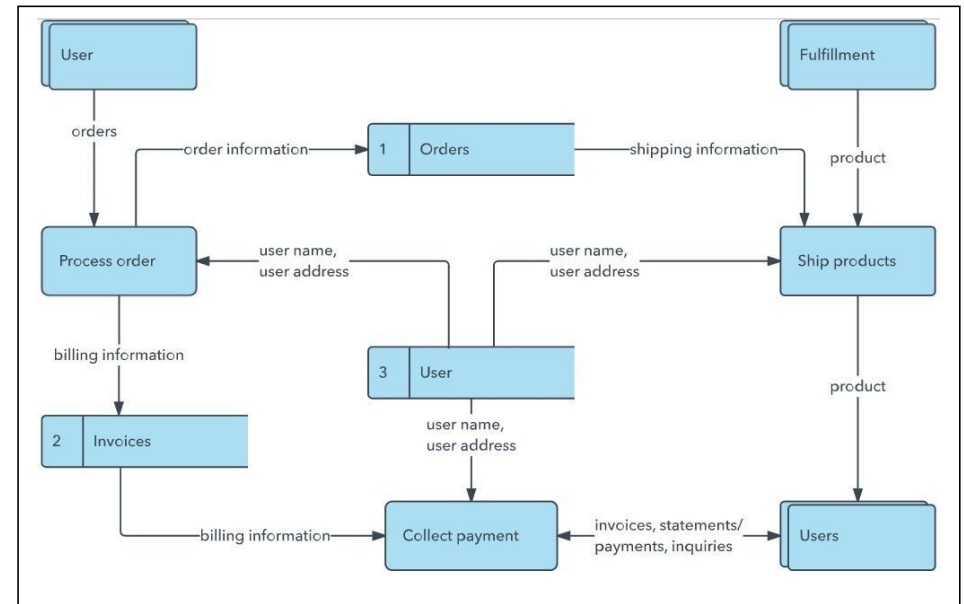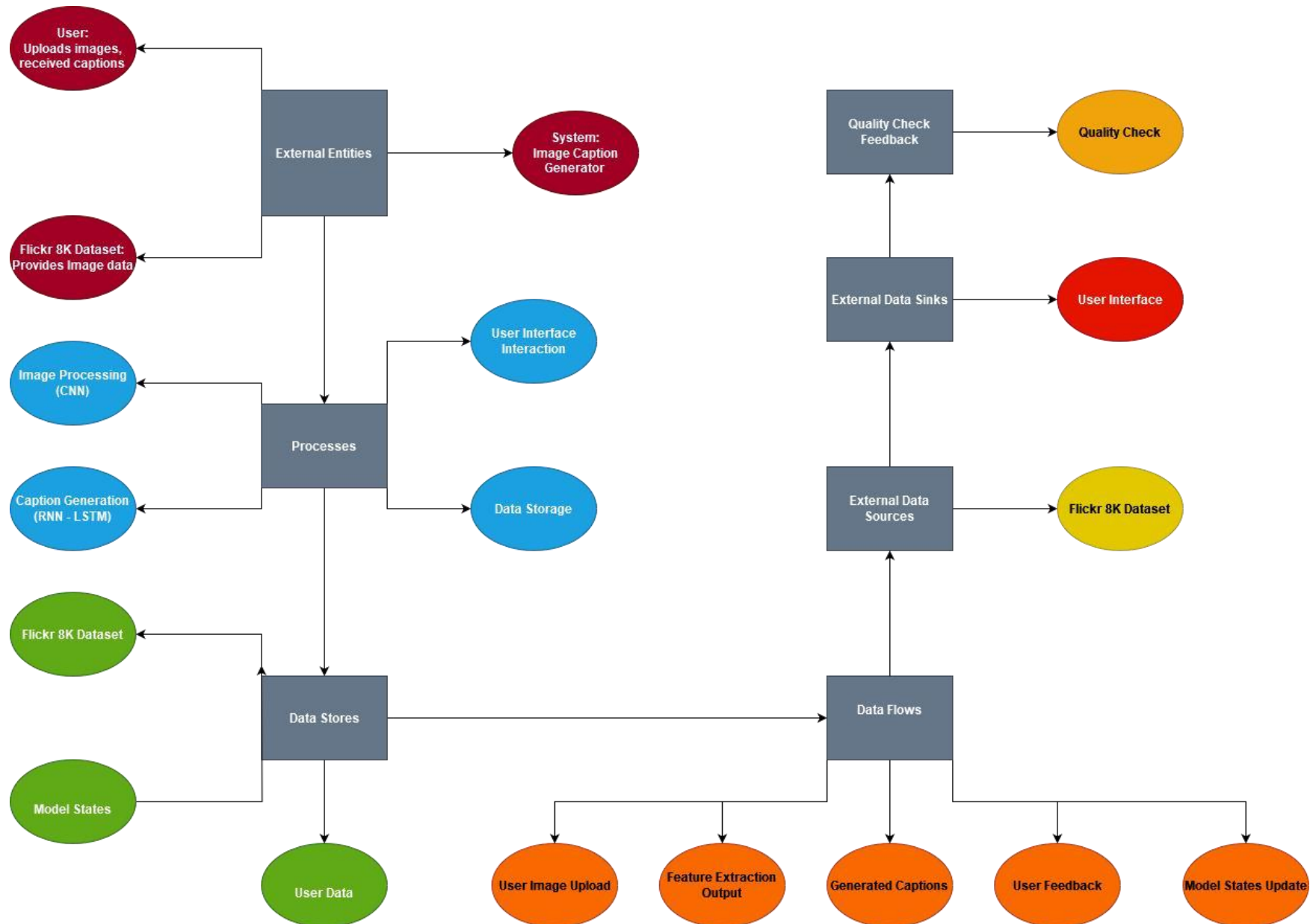
Example: (Simplified)

1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

Example: DFD Level 0 (Industry Standard)

PROJECT TITLE: **IMAGE CAPTION GENERATION.**

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
Customer (Mobile User)	Upload Image for Caption	USN-1	As a mobile user, I can upload an image to the application for generating captions.	I can access my account / dashboard	High	Sprint-1
	View Generated Captions	USN-2	As a mobile user, I can view the captions generated by the ML/DL model for my uploaded images	I can scroll through or download the captions.	High	Sprint-1
	Provide Feedback on Captions	USN-3	As a mobile user, I can provide feedback on the accuracy and relevance of captions generated by the ML/DL model.	I can submit comments or ratings for each caption.	Medium	Sprint-2
Customer (Web User)	Registration/Login	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password., I can log into the application by entering email and password.	I can access my acount/dashboard	High	Sprint-1
	Web Image Upload	USN-4	As a web user, I can upload images to the application for generating captions using the ML/DL model	I can view and download captions generated for my uploaded images.	High	Sprint-1
	Explore Caption History	USN-5	As a web user, I can explore the history of captions generated by the ML/DL model for my uploaded images.	I can filter, search, or organize the caption history.	Medium	Sprint-2
	Customize Caption Preferences	USN-6	As a web user, I can customize preferences for how captions are generated by the ML/DL model (e.g., tone, length).	I can apply these preferences to future image uploads.	Medium	Sprint-2
Customer Care Executive	Review User Feedback	CCE-1	As a Customer Care Executive, I can access and review user feedback on generated captions.	I can prioritize and address user concerns or issues related to caption accuracy.	High	Sprint-2
	Provide Support for Caption Issues	CCE-2	As a Customer Care Executive, I can respond to user feedback regarding caption inaccuracies.	I can provide clarifications, assistance, or escalate issues to the development team.	High	Sprint-2
	Monitor Caption Quality Trends	CCE-3	As a Customer Care Executive, I can monitor trends in user feedback to identify patterns in caption quality.	I can collaborate with the development team to improve the ML/DL model.	Medium	Sprint-3
Administrator	Manage User Access and Roles	ADM-1	As an Administrator, I can manage user roles and access levels within the application.	I can assign roles such as Customer, Customer Care Executive, and Administrator.	High	Sprint-1
	Monitor System Performance	ADM-2	As an Administrator, I can monitor the performance of the ML/DL model and overall system.	I can identify potential issues and ensure optimal system functionality.	High	Sprint-1
	Update ML/DL Model	ADM-3	As an Administrator, I can initiate updates to the ML/DL model.	I can coordinate with the development team to implement improvements or modifications.	High	Sprint-2
	Manage User Data	ADM-4	As an Administrator, I can manage user data, ensuring compliance with privacy regulations.	I can oversee data storage, retention policies, and user data security.	High	Sprint-1