

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

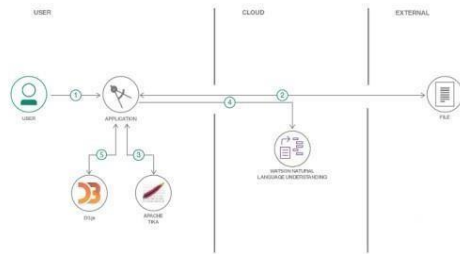
Date	23 <sup>rd</sup> October 2023
Team ID	Team-592314
Project Name	Project - Crime Vision: Advanced Crime Classification with Deep Learning

### 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.

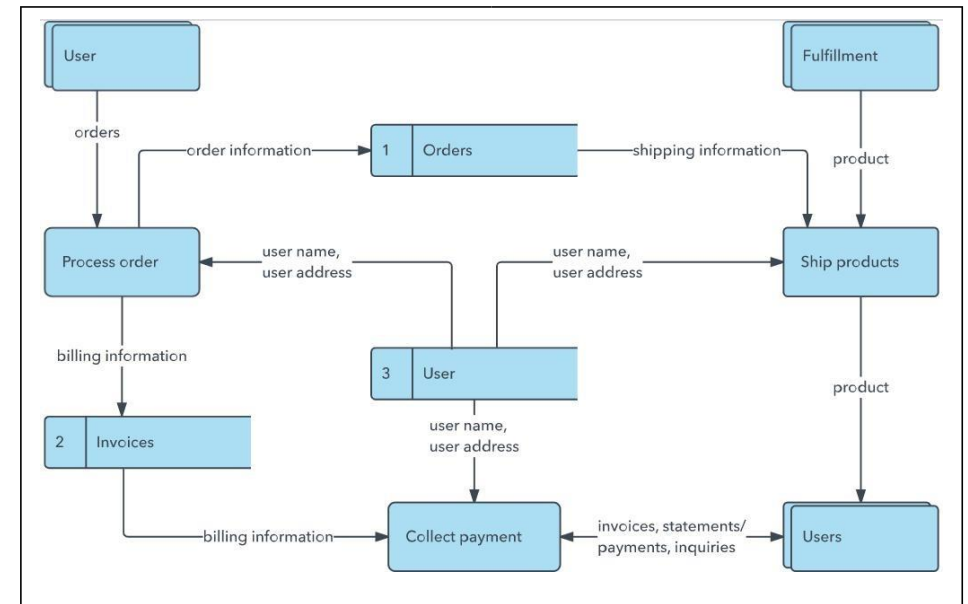
Example: DFD Level 0 (Industry Standard)

### Flow



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: (Simplified)



## User Stories

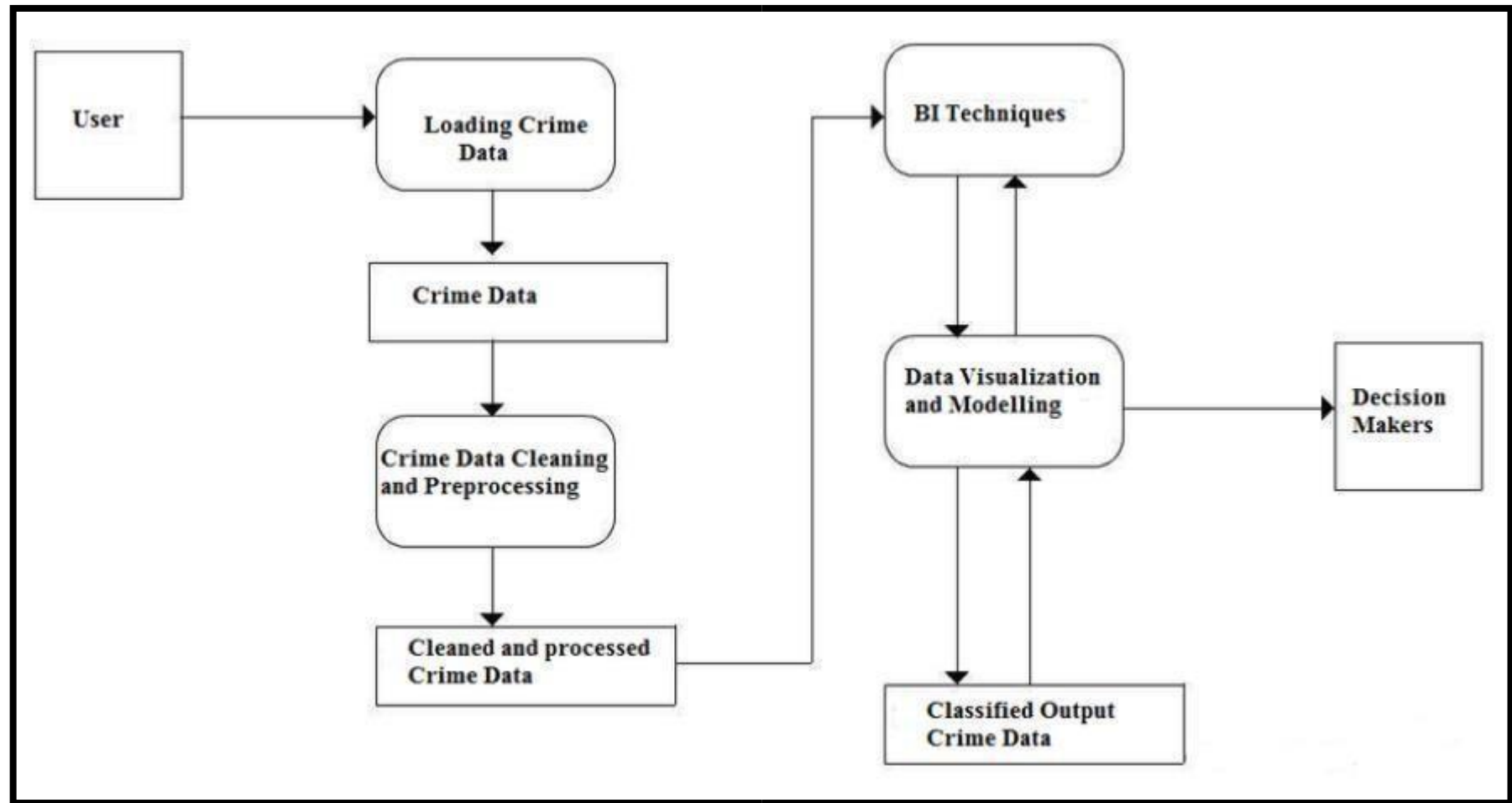
Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Shivam
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Shivani
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Shivam
		USN-4	As a user, I can register for the application through Gmail		Medium	Shivam
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sandeep
	Dashboard					
Customer (Web user)						
Customer Care Executive						
Administrator						

## Project Description:

**This project uses a special kind of computer technology called deep learning to help identify different types of crimes from pictures and videos. Deep learning is like teaching a computer to recognize patterns in images. We can use it to look at pictures or videos of crime scenes and figure out what kind of crime happened. This is really helpful for police and investigators. It helps them investigate crime scenes better and analyse evidence. It can also be used to watch a lot of video footage and spot any unusual or suspicious activities. This way, they can plan ways to stop crimes from happening in the future.**

## Data Flow Diagram



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority
Law Enforcement Officer	Crime Identification	USN-1	Upload an image or video of a crime scene or incident	<ul style="list-style-type: none"> <li>- Able to upload image or video.</li> <li>- System successfully processes and analyzes the media.</li> </ul>	High
		USN-2	Receive automated crime classification based on the uploaded media	<ul style="list-style-type: none"> <li>- Accurate crime classification is provided.</li> <li>- Results are displayed to the officer.</li> </ul>	High
Forensic Analyst	Forensic Analysis	USN-3	Access and analyze crime scene images or videos	<ul style="list-style-type: none"> <li>- Can access the uploaded media.</li> <li>- Perform detailed forensic analysis.</li> </ul>	High
Surveillance Operator	Real-time Surveillance	USN-4	Monitor live video feed from surveillance cameras	<ul style="list-style-type: none"> <li>- Access live video feed.</li> <li>- System detects and alerts on suspicious activities.</li> </ul>	High
Data Analyst	Crime Data Analysis	USN-5	Analyze historical crime data and trends	<ul style="list-style-type: none"> <li>- Access to historical crime data.</li> <li>- Identify and present crime trends.</li> </ul>	Medium
Command Center Operator	Incident Response	USN- 6	Receive real-time alerts and recommendations for incident response	<ul style="list-style-type: none"> <li>- Alerts and recommendations are generated based on live surveillance data.</li> </ul>	High

Administrator	User Management	USN-7	Manage user accounts and permissions	- Add, remove, or modify user accounts. - Define user access and permissions.	Medium
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