

Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID591975
Project Name	Project - Crime Detection Using Deep Learning
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.

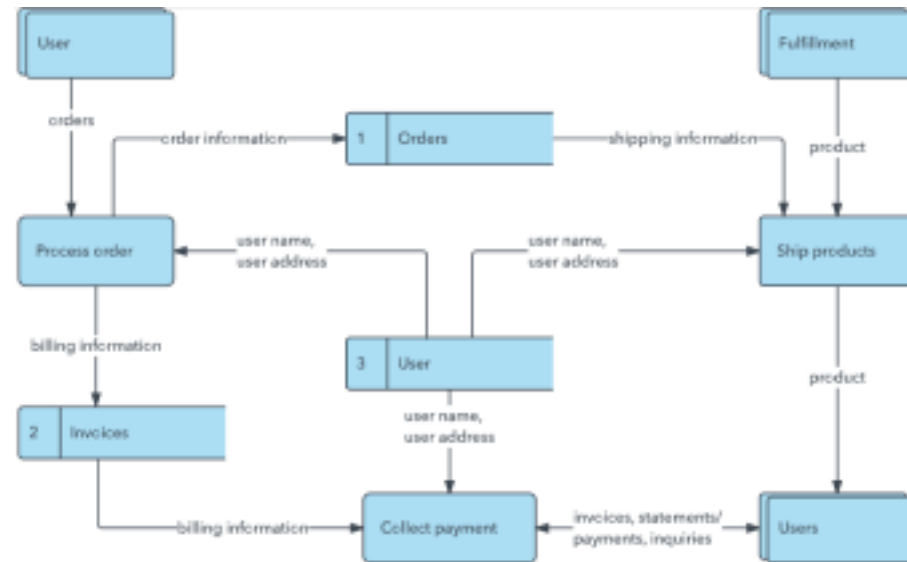
Example: DFD Level 0 (Industry Standard)

Example: [\(Simplified\)](#)

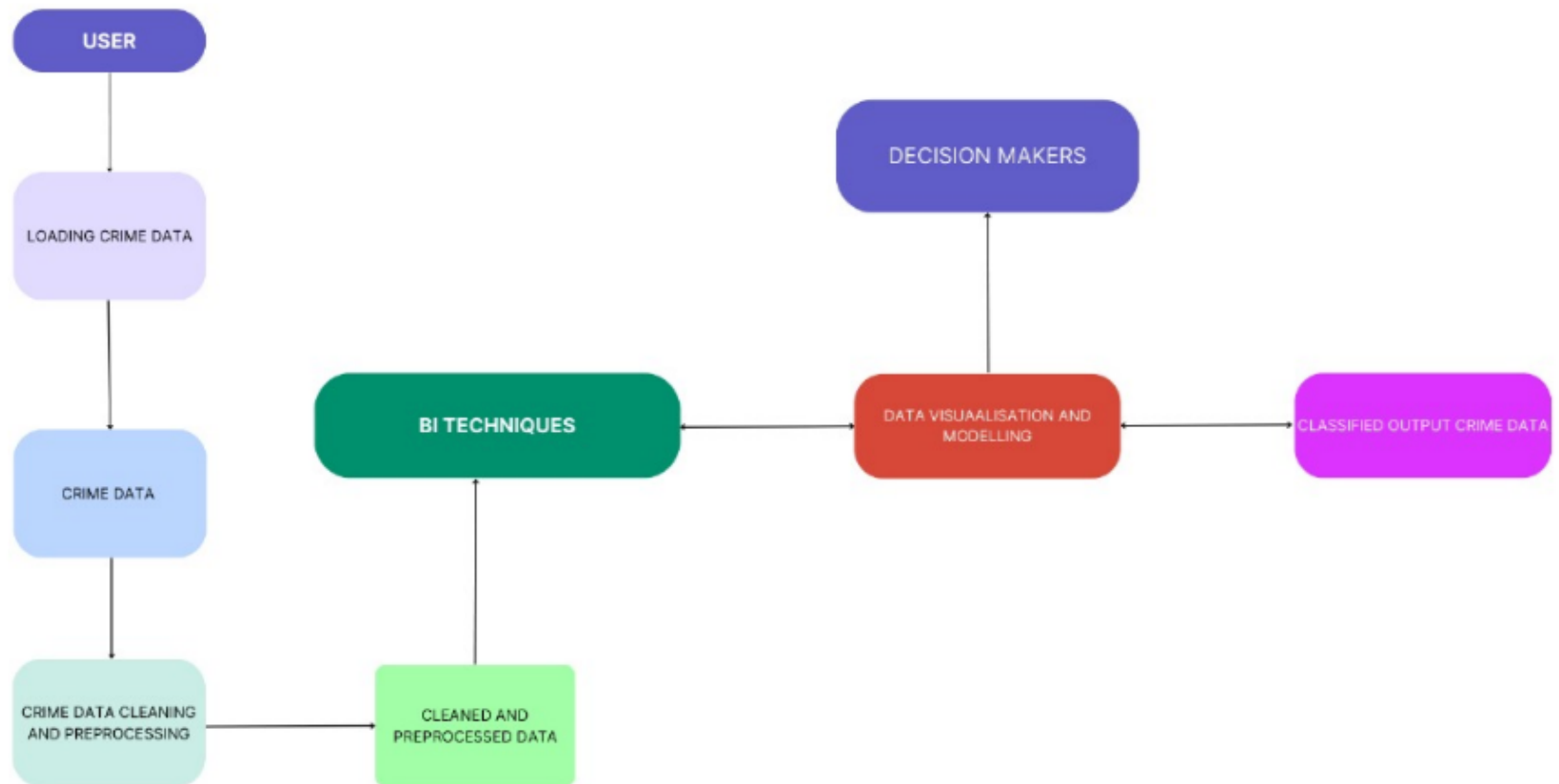
Flow



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.



DATA FLOW DIAGRAM



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
Law Enforcement Officer	Crime Identification	USN-1	To submit various types of multimedia evidence, such as images and videos, to the deep learning system	<ul style="list-style-type: none">- Able to upload images or videos.-potential criminal activities can be identified and investigated efficiently.	High	Sprint-1
Forensic Analyst	Forensic Analysis	USN-2	To retrieve detailed analysis reports generated by the deep learning model	<ul style="list-style-type: none">- Can access the uploaded media.- Use the information to support forensic investigations.-Can review and validate the identified objects and patterns.	High	Sprint-1
System Administrator	User Management	USN-3	To ensure the secure and seamless flow of data within the system	<ul style="list-style-type: none">-The deep learning algorithms can operate effectively and reliably.- Add, remove, or	Medium	Sprint-2

				modify user accounts.		
Detective	Crime Details Extraction	USN-4	To receive real-time alerts when the system identifies potential matches with known criminals	- Can respond promptly to emerging threats.	Medium	Sprint-1
Criminal Database Manager	User Management	USN-5	Regularly update and maintain the database integrated with the deep learning system	- The system has the most recent and relevant data for accurate crime detection.	Medium	Sprint-2
Privacy Officer	Security Management	USN-6	To ensure that the system adheres to privacy regulations and guidelines	-The rights of individuals are protected during the data analysis process	Low	Sprint-3
System Developer	Developer Duties	USN-7	Continuously improve and update the deep learning algorithms based on feedback and emerging trends	-The system remains effective in adapting to new challenges and technologies.	Medium	Sprint-2
Citizen	Prime User	USN-8	To have a user-friendly interface to report crimes or suspicious activities	-Can actively contribute to community safety through the crime detection system.	High	Sprint-1