

Project Design Phase-II Data Flow Diagram & User Stories

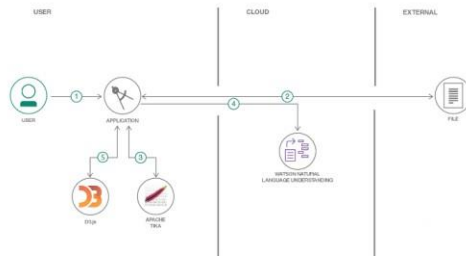
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| Date | 23 rd October 2023 |
| Team ID | NM2023TMID593189 |
| Project Name | Project - Crime Vision: Advanced Crime Classification with Deep Learning |

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.

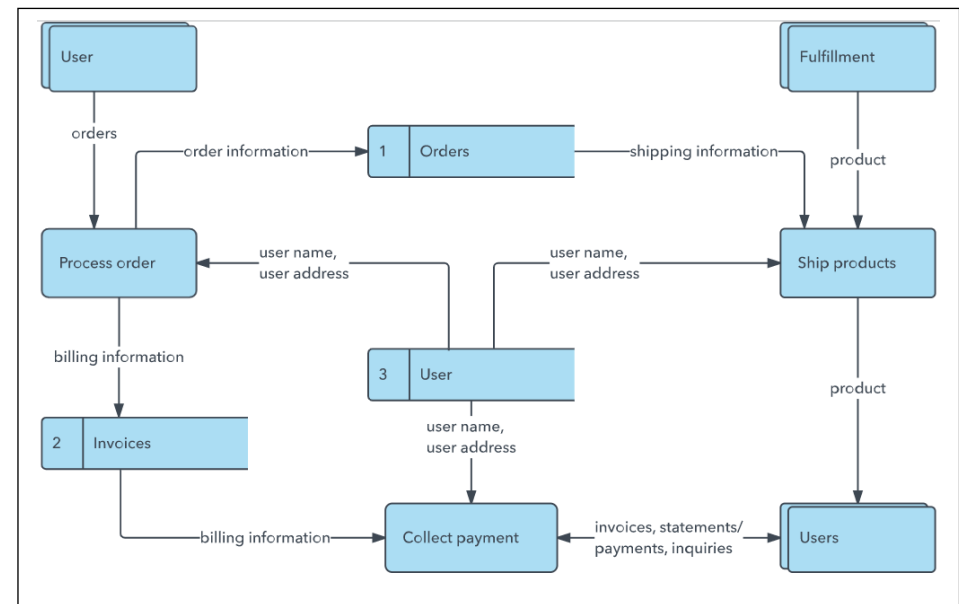
Example: (Simplified)

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.

Example: DFD Level 0 (Industry Standard)



User Stories

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

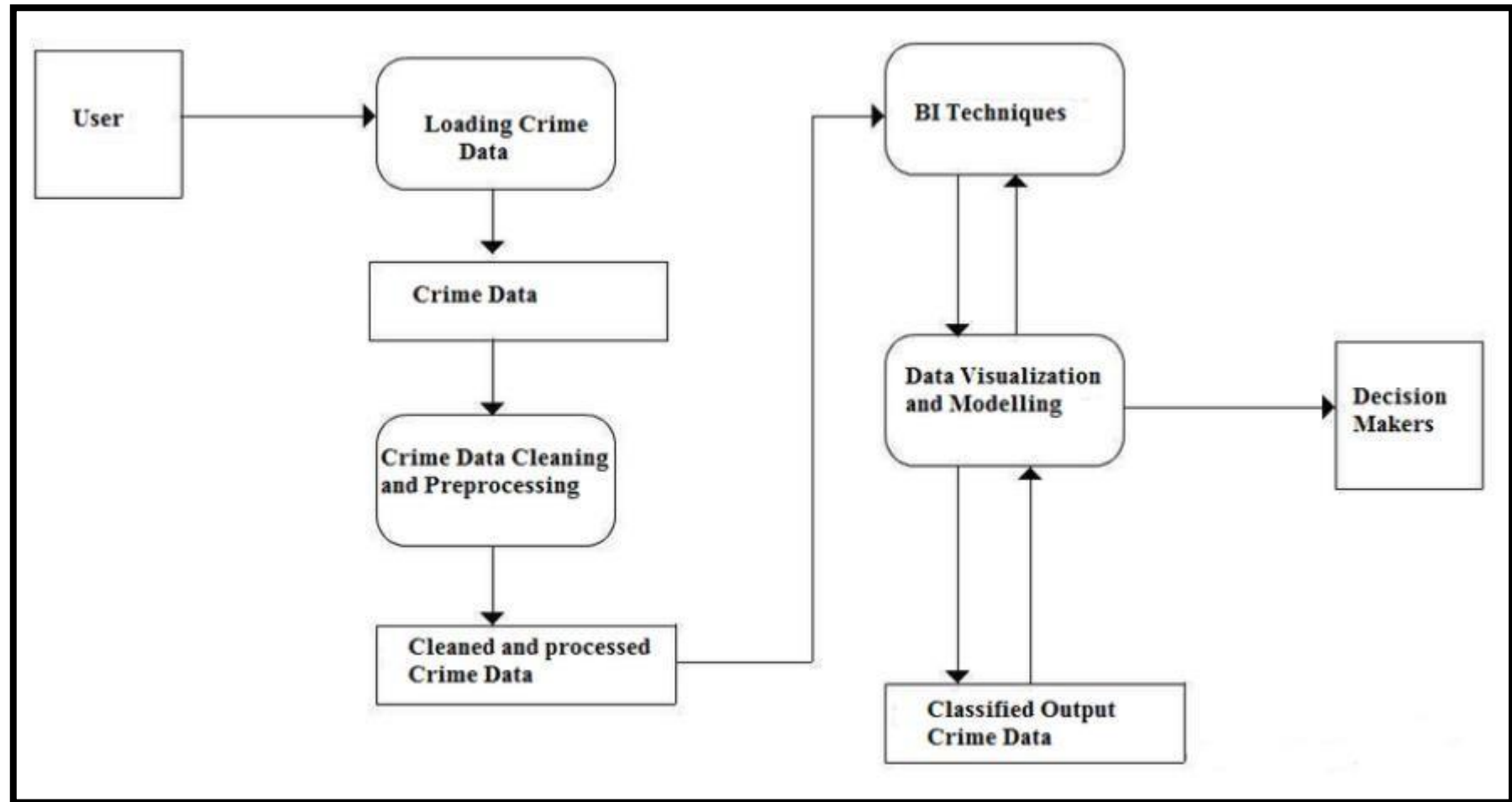
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Team Member |
|-------------------------|-------------------------------|-------------------|---|---|----------|-------------|
| Customer (Mobile user) | Registration | USN-1 | As a 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 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Crime Vision (Team ID: 593189)

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"> - Able to upload image or video. - System successfully processes and analyzes the media. | High |
| | | USN-2 | Receive automated crime classification based on the uploaded media | <ul style="list-style-type: none"> - Accurate crime classification is provided. - Results are displayed to the officer. | High |
| Forensic Analyst | Forensic Analysis | USN-3 | Access and analyze crime scene images or videos | <ul style="list-style-type: none"> - Can access the uploaded media. - Perform detailed forensic analysis. | High |
| Surveillance Operator | Real-time Surveillance | USN-4 | Monitor live video feed from surveillance cameras | <ul style="list-style-type: none"> - Access live video feed. - System detects and alerts on suspicious activities. | High |
| Data Analyst | Crime Data Analysis | USN-5 | Analyze historical crime data and trends | <ul style="list-style-type: none"> - Access to historical crime data. - Identify and present crime trends. | Medium |
| Command Center Operator | Incident Response | USN- 6 | Receive real-time alerts and recommendations for incident response | <ul style="list-style-type: none"> - Alerts and recommendations are generated based on live surveillance data. | High |
| Administrator | User Management | USN-7 | Manage user accounts and permissions | <ul style="list-style-type: none"> - Add, remove, or modify user accounts. - Define user access and permissions. | Medium |