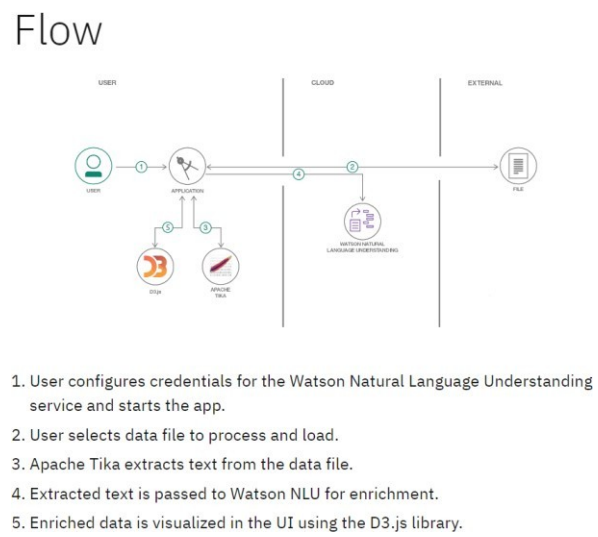
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	Project - xxx
Maximum Marks	4 Marks

Data Flow Diagrams:

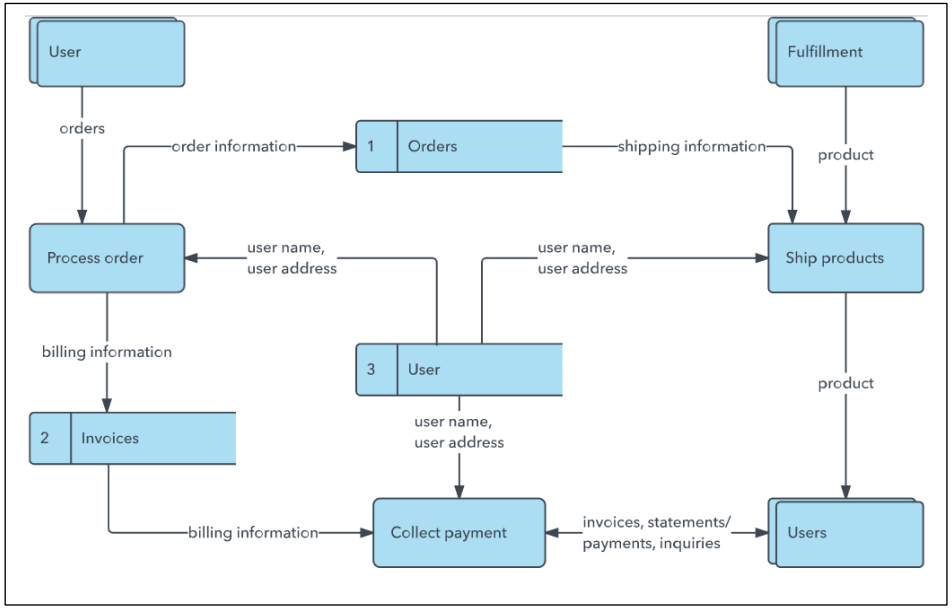
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)

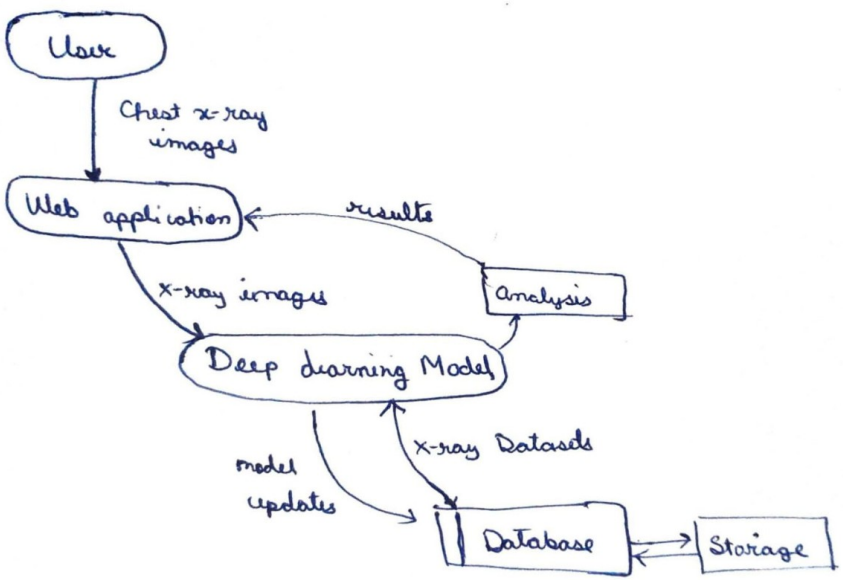


1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using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

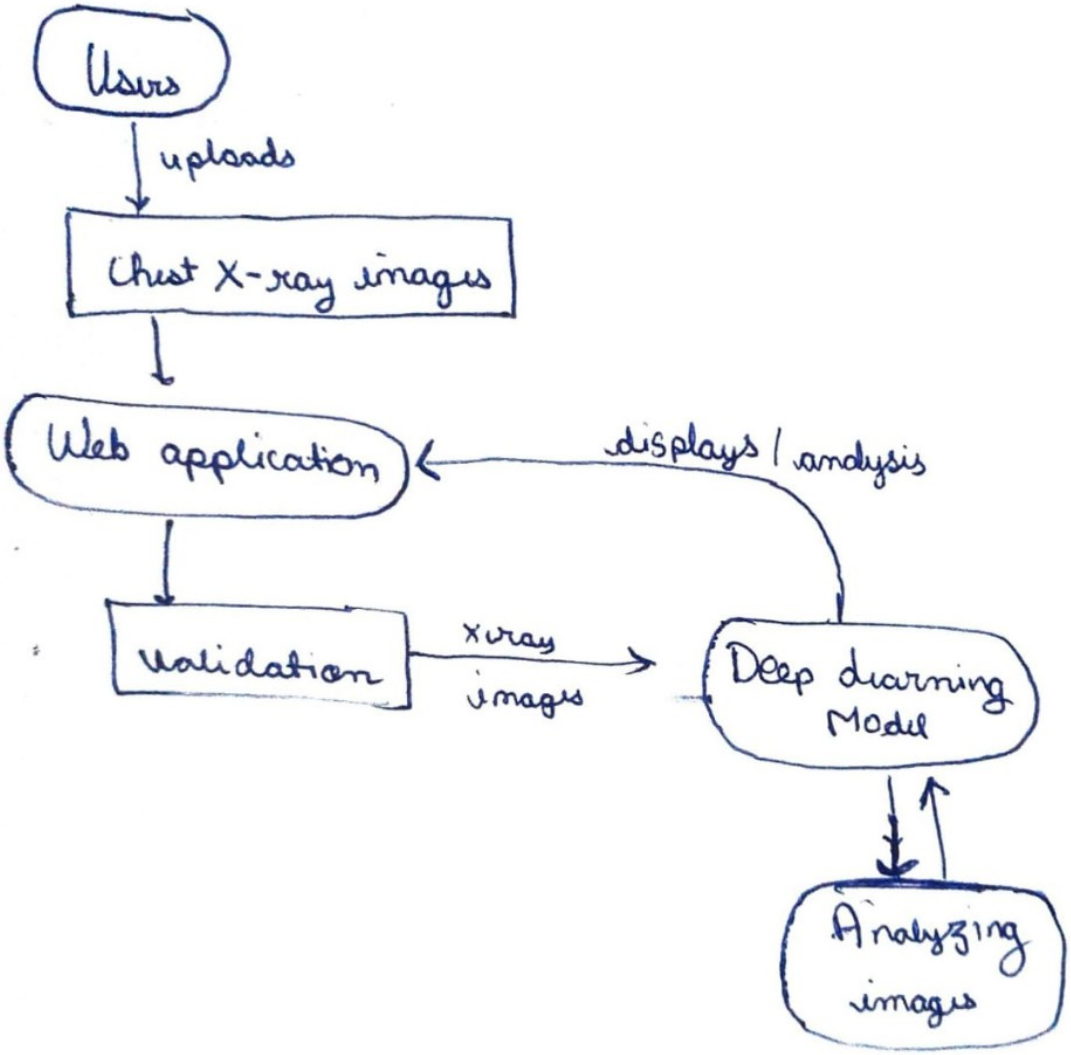
Example: DFD Level 0 (Industry Standard)



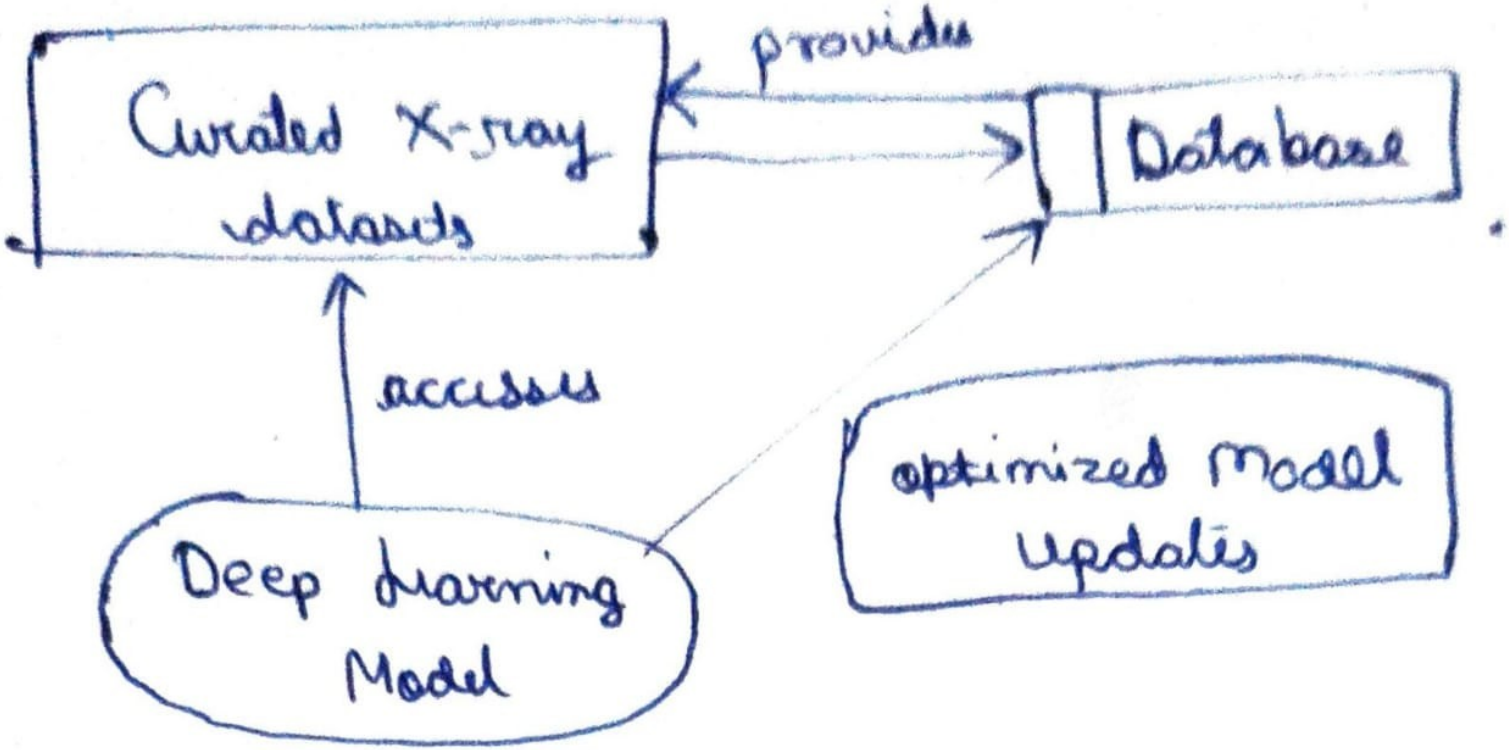
Level 0


User
Chest x-ray images
Web application
results
x-ray images
Analysis
Deep learning Model
model updates
x-ray Datasets
Database
Storage

Level 1:


Users
uploads
Chest X-ray images
Web application
displays / analysis
Validation
X ray
images
Deep learning
Model
Analyzing
images

Level 2


Curated X-ray datasets
provides
Database
accesses
Deep learning Model
optimized model updates

User Stories

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

User Type: Customer (Mobile User)

User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
USN-6	As a user, I can view a tutorial on how to use the application for COVID-19 detection.	- Access a tutorial section within the app. - View step-by-step instructions on using the application.	Medium	Sprint-2
USN-7	As a user, I can upload multiple chest X-ray images for batch analysis.	- Select and upload multiple X-ray images simultaneously. - Receive individual results for each image analyzed.	High	Sprint-1
USN-8	As a user, I can track the historical analysis results of my uploaded X-ray images.	- Access a history section in the app. - View a list of previously analyzed X-ray images with their respective results and timestamps.	Medium	Sprint-2
USN-9	As a user, I can provide feedback on the accuracy of the COVID-19 detection results.	- Access a feedback feature in the app. - Provide feedback on whether the results were accurate or not.	Low	Sprint-3

User Type: Customer (Web User)

User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
USN-10	As a web user, I can access the application dashboard using a secure login.	- Log in securely using a valid username and password. - Access the dashboard upon successful login.	High	Sprint-1
USN-11	As a web user, I can filter and sort the list of analyzed X-ray images on the dashboard.	- Use filter and sort options to organize the displayed X-ray images based on date, result, or other criteria.	Medium	Sprint-2
USN-12	As a web user, I can download a detailed report for each analyzed X-ray image.	- Access a download option for each image on the dashboard. - Download a comprehensive report containing analysis details.	High	Sprint-1

User Type: Customer Care Executive

User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
USN-13	As a customer care executive, I can search for a specific patient's X-ray analysis results.	- Use a search feature to locate a patient's data. - Retrieve and view the analysis results for the specified patient.	High	Sprint-1
USN-14	As a customer care executive, I can flag an analysis result for further review by a medical professional.	- Access a flagging feature on the dashboard. - Flag an analysis result for additional scrutiny by a medical expert.	Medium	Sprint-2
USN-15	As a customer care executive, I can generate a summary report of COVID-19 detection trends for management.	- Access a reporting feature on the dashboard. - Generate a summary report containing trends, statistics, and insights.	High	Sprint-1