

Project Design Phase-II Data Flow Diagram & User Stories

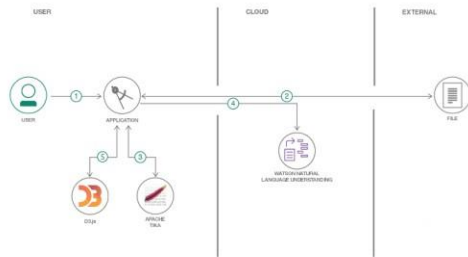
Date	22 October 2023
Team ID	Team-592465
Project Name	Project-Online shopper's intentions using Artificial Intelligence and Machine learning.
Maximum Marks	4 Marks

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.

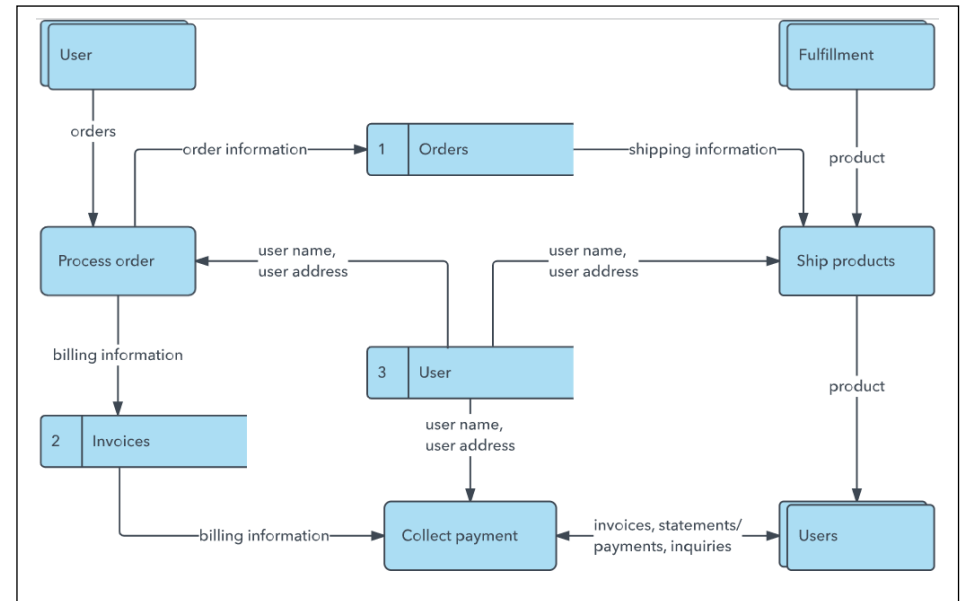
Example: (Simplified)

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)



Here is the proposed data flow diagram for our project:

External Entities:

1. **Customer:** Represents users interacting with the e-commerce system.
2. **Administrator:** Represents users with administrative privileges.
3. **Database Server:** Stores user data, product information, and more.
4. **Payment Gateway:** A third-party service for processing payments.

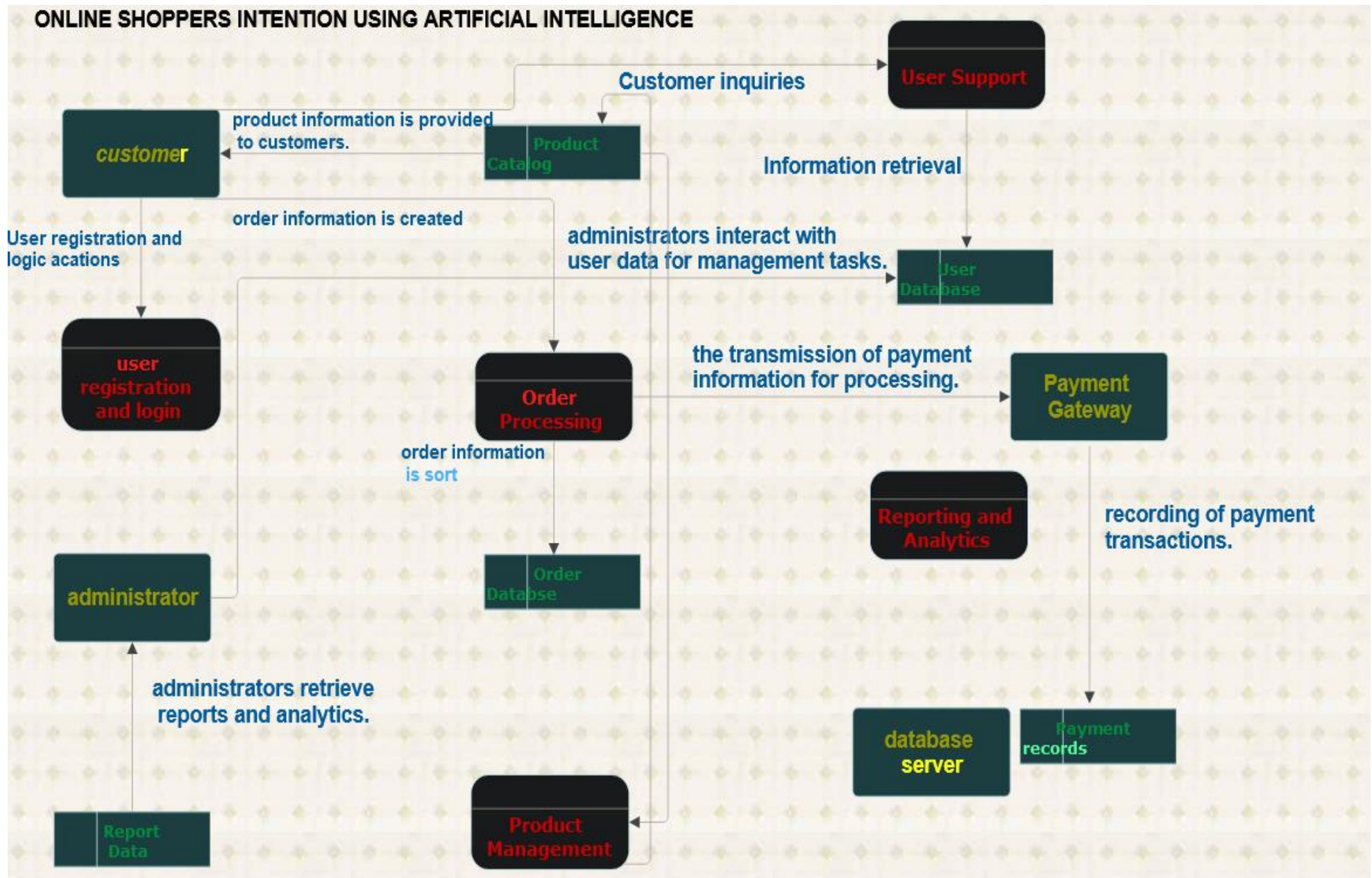
Processes:

1. **User Registration and Login:** Handles user registration, login, and authentication.
2. **Product Management:** Manages the addition, update, and removal of products.
3. **Order Processing:** Handles order creation, payment processing, and order fulfillment.
4. **Reporting and Analytics:** Generates reports and analytics for administrators.
5. **User Support:** Manages user inquiries and support requests.

Data Stores:

1. **User Database:** Stores user profiles, login credentials, and personal information.
2. **Product Catalog:** Contains information about available products.
3. **Order Database:** Stores order details and transaction history.
4. **Payment Records:** Keeps records of payment transactions.
5. **Report Data:** Stores data used for reporting and analytics.

Direction of data flow mentioned through the dfd:



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)	Registration	USN-1	As a new customer, I want to register for an account using my mobile device so that I can start shopping online	<ul style="list-style-type: none"> The user can access the registration page. The user can enter their name, email, and password. 	High	Sprint-1
		USN-2	As a customer, I want the registration process to be simple and quick on my mobile device, allowing me to sign up with my Google or Facebook account.	The user is presented with the option to register using their Google or Facebook account.	Medium	Sprint-2
		USN-3	As a customer, I want to receive a confirmation email or SMS with a one-time code during registration on my mobile device to verify my identity.	After registering, the user receives a confirmation email or SMS with a unique one-time verification code.	High	Sprint-2
		USN-4	As a customer, I want to set up a secure and unique password during registration on my mobile device.	The registration process should include password creation with requirements for length, complexity, and security.	High	Sprint-2
	Login	USN-5	As a mobile user, I want to be able to log in to the shopping application using my email and password.	<input type="checkbox"/> The login screen should be accessible from the mobile app. <input type="checkbox"/> Users should be able to enter their email and password.	High	Sprint-1
	Dashboard	USN-6	As a mobile user, I want to view my recent purchase history on the dashboard.	The purchase history should update in real-time as new purchases are made.	High	Sprint-1

Customer (Web user)	Profile	USN-7	As a web user, I want to be able to update my user profile information.	Users should be able to edit their profile information, including name, email, and profile picture.	High	Sprint-1
Customer Care Executive	Help desk/user support	USN-8	As a customer care executive, I need access to a help desk system to assist users with their inquiries and issues.	. The help desk should provide a list of user inquiries and support tickets with relevant details.	High	Sprint-1
Administrator	User management	USN-9	As an administrator, I want the ability to add and manage user accounts.	Administrators should be able to reset user passwords and assign roles.	High	Sprint-1
	Reporting and analytics	USN-10	As an administrator, I want access to reporting and analytics tools to monitor system performance and user activity.	The system should generate automated reports and provide real-time data updates.	Medium	Sprint-2
Social Media User	Post Sharing	USN-11	As a social media user, I want to share posts with my followers.	Users should be able to create and publish posts with text, images, and links.	High	Sprint-2