Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2022
Team ID	PNT2022TMID590972
Project Name	Project – A demonstrate of text input and validation with Android compose

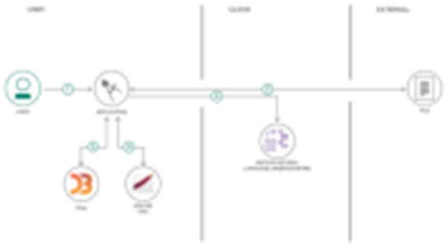
Data Flow Diagrams:

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.

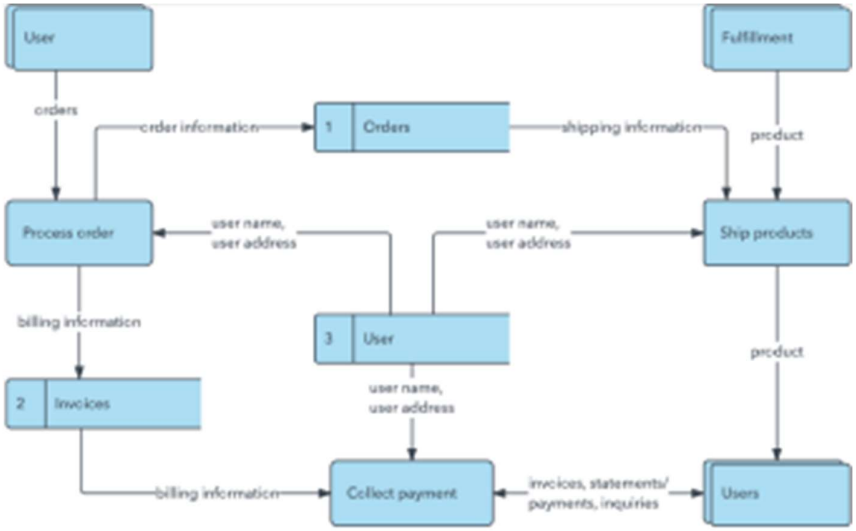
Example: DFD Level 0 (Industry Standard)

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.



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 (App user according to their requirement of Collecting data)	Dynamic Form Creation	USN-1	As a user, I want to create a dynamic contact form. *	I can open the app and see a "Create Form" button on the home screen. - When I tap "Create Form," I'm directed to a new screen. - On this screen, I see options to add various fields: Name, Email, Phone Number, and Message.	High	Sprint-1

				- For the "Email" field, as I type, I get real-time feedback on whether the email format is valid. - When I fill out the form, I can submit it, and it should store the data locally.		
		USN-2	As a developer, I want to create a multi-step user registration process with real-time validation. *	- I can access the developer's interface of the app. - I see an option to create a multi-step form. - I can define steps, each with text input fields like username, email, and password. - I can set validation rules for each field, such as email format validation and password strength validation. - When users complete each step, they receive validation feedback in real-time. - Users can only proceed to the next step if they pass validation for the current step.	High	Sprint-1
Customer (mobile user)	Real-time Search and Filtering*	USN-3	As a user, I want to use a real-time search bar for a product catalog. *	- On the app's home screen, I see a search bar. - As I type into the search bar, I immediately see	Medium	Sprint-1

				product results that match my input. - The app validates the search input, ensuring that I can't search with an empty query.		
Developer		USN-4	As a developer, I want to create a real-time search feature for my product catalog.	- I can access the developer's interface. - I see an option to add a search bar with real-time results to my app. - I can define the data source and configure the search bar. - I can specify validation rules for the search input to prevent empty queries. - Users receive real-time results based on their input.	Medium	Sprint-1
Customer	Password Strength Checker	USN-5	As a user, I want to see real-time feedback on the strength of my password	- When I create a new password, the app provides a real-time strength meter. - The strength meter updates as I type and provides feedback on whether the password is weak, medium, or strong based on complexity and length.	low	Sprint-2

Developer		USN-6	As a developer, I want to integrate a real-time password strength checker into my registration form.	- I can access the developer's interface. - I see an option to add a password field with a real-time strength checker to my form. - I can customize the strength criteria. - Users receive real-time feedback on their password's strength as they type.	low	sprint-2