

Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID42737
Project Name	Project – IoT- Enabled Smart Farmer Application
Maximum Marks	4 Marks

Data Flow Diagrams:

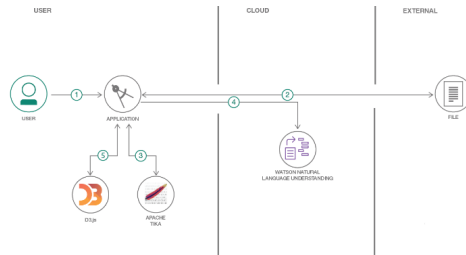
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Smart Farmer Application (Industrial Standard)

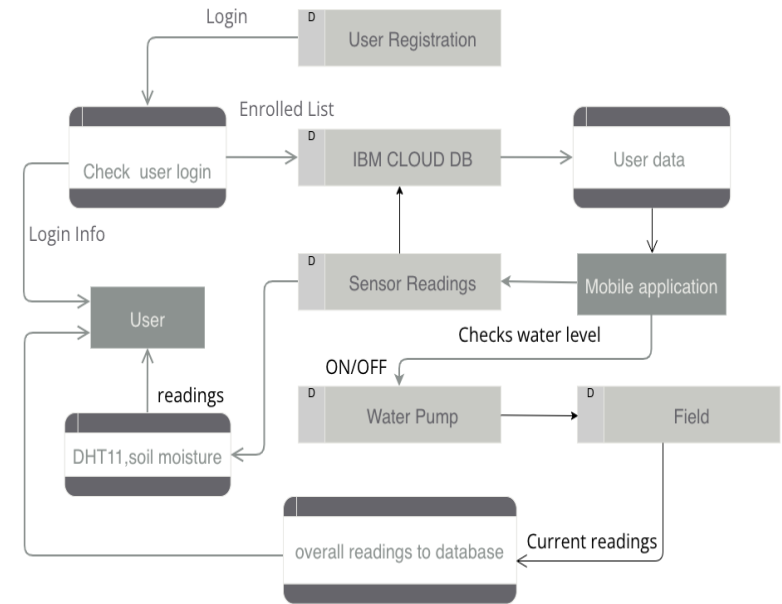
Example: [\(Simplified\)](#)



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

IoT-enabled Smart farmer application

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, and password, and confirming my password.	I can access my account / dashboard	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		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	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register with Gmail and access the dashboard	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can register with Email and password.	High	Sprint-1
	Dashboard		As a user, I can view the sensor readings and water pump status.	I can manually switch it on/off or can be done automatically.	High	Sprint-1
Vendors	Sellers		As a Seller, I can provide the required hardware materials.	To provide sensors that monitor the field(all parameters included).	High	Sprint-1
Customer Care Executive	Technical Support		Request for the crop to be planted and takes care of Connectivity issues.	The user must contact support to adjust the minimum soil moisture readings	High	Sprint-1
Administrator	Creator		Supervise the overall process.	Inform about sensor maintenance	Medium	Sprint-2
			make changes in the code.	Optimizes the code and updates the application to improve user experience.	High	Sprint-1