Project Design Phase-II

Data Flow Diagram & User Stories

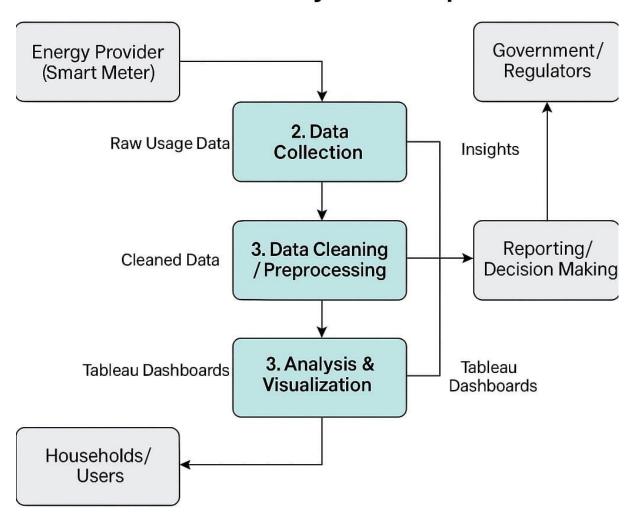
Date	26 June 2025
Team ID	LTVIP2025TMID47899
Project Name	Plugging Into the Future – An Exploration of Electricity Consumption Patterns using Tableau."
Maximum Marks	4 Marks

Data Flow Diagrams:

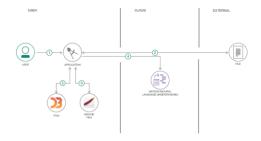
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:

Plugging into the Future – An Exploration of Electricity Consumption



Flow



- 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.

1. External Entities:

- Smart Meters (data source)
- Government/Policy makers
- o Consumers/Households

2. Processes:

- Data collection (real-time usage data)
- o Data cleaning (handling nulls, errors, standardizing)
- o Analysis (peak usage, trends, prediction)
- Reporting (dashboards, alerts, reports)

3. Data Stores (optional in DFDs):

- Raw data storage
- Processed data warehouse

User Stories

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

User Type	Functional	User	User Story /	Acceptance	Priorit	Relea
	Requirement	Story	Task	Criteria	у	se
	(Epic)	Numb				
		er				
Customer	Registration	USN-1	As a user, I	I can access	High	Sprint
(Mobile			can register	my		-1
user)			for the	account/dashb		
			application	oard after		
			by entering	successful		
			my email,	registration		
			password,			
			and			
			confirming			
			my			
			password.			
		USN-	As a user, I	I can receive a	High	Sprint
		2	will receive	confirmation		-1
			а	email and click		
			confirmatio	confirm to		

			n email once I have registered for the application.	activate my account		
		USN- 3	As a user, I can register for the application through Facebook.	I can register and access the dashboard using Facebook login	Low	Sprint -2
		USN- 4	As a user, I can register for the application through Gmail.	I can register and access the dashboard using Gmail login	Mediu m	Sprint -1
	Login	USN- 5	As a user, I can log into the application by entering my email & password.	I can log in and access my dashboard after entering valid credentials	High	Sprint -1
	Dashboard	USN- 6	As a user, I can view and manage my profile, recent activity, and settings.	I can see my dashboard with options like edit profile, activity log, settings	Mediu m	Sprint -2
Customer (Web user)	Registration/L ogin	USN-7	As a web user, I can register and log in using email/pass word or social login.	I can access the web dashboard after registration/log in	High	Sprint -1

	Dashboard	USN-	As a web	I can view and	Mediu	Sprint
		8	user, I can	interact with	m	-2
			access a	the dashboard		
			responsive	on any screen		
			dashboard	size		
			with			
			personalize			
			d features.			
Customer	User	USN-	As a care	I can log in,	High	Sprint
Care	Management	9	executive, I	view user		-2
Executive			can view	messages, and		
			and respond	mark tickets as		
			to customer	resolved		
			queries/issu			
			es.			
Administr	User &	USN-	As an	I can see user	High	Sprint
ator	System	10	admin, I can	stats, update		-3
	Management		view user	content, and		
			analytics,	grant/revoke		
			manage	permissions		
			content,			
			and control			
			access.			