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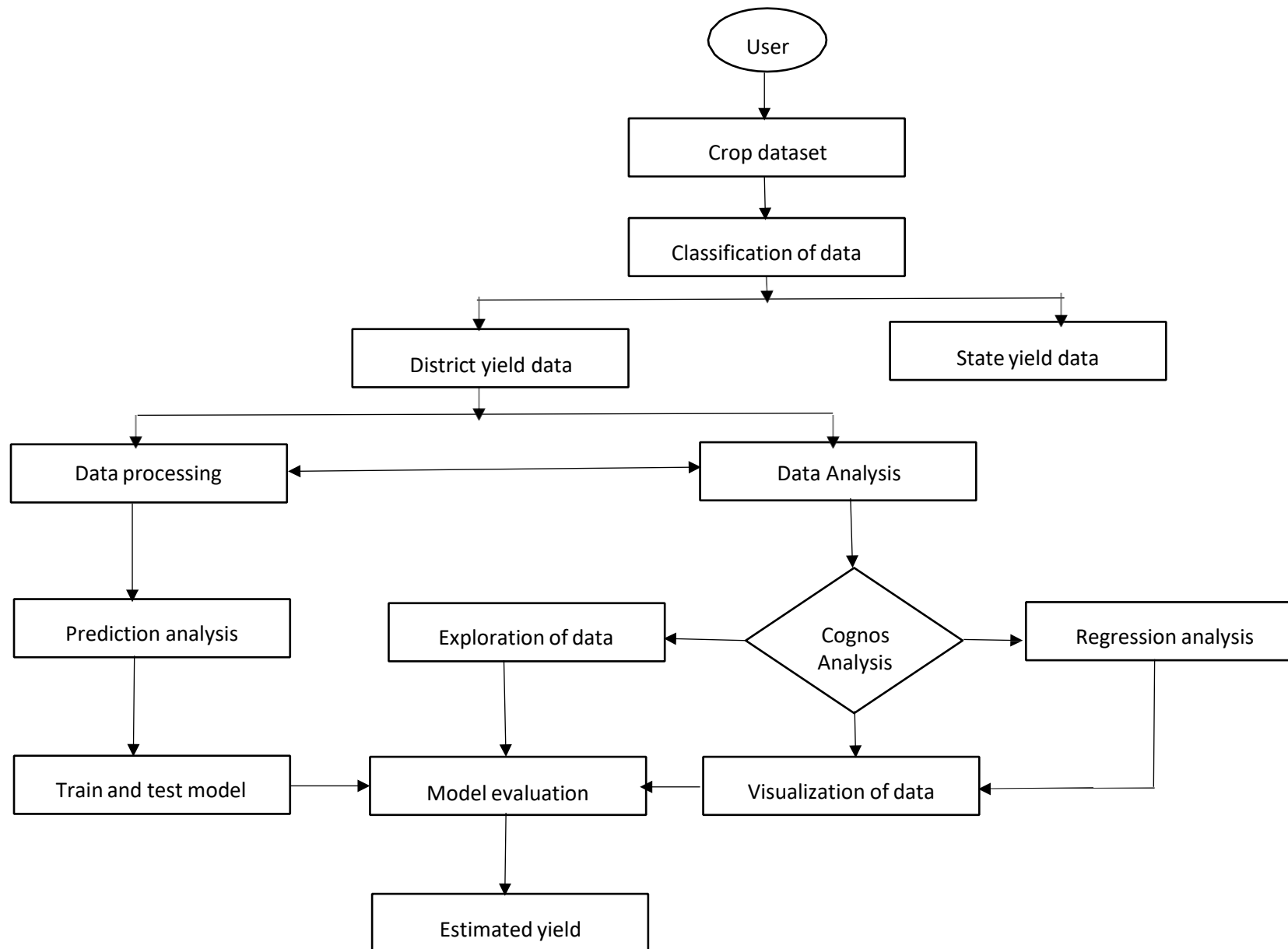
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: Simplified Flow

Data flow diagram:

```
                          ┌─────────┐
                          │  User   │
                          └────┬────┘
                               │
                               ▼
                    ┌─────────────────────┐
                    │    Crop dataset     │
                    └──────────┬──────────┘
                               │
                               ▼
                    ┌─────────────────────┐
                    │ Classification of data │
                    └──────────┬──────────┘
              ┌────────────────┼────────────────┐
              ▼                                  ▼
    ┌─────────────────────┐          ┌─────────────────────┐
    │  District yield data │          │   State yield data  │
    └──────────┬──────────┘          └─────────────────────┘
        ┌──────┴──────┐
        ▼             ▼
┌───────────────┐   ┌───────────────┐
│ Data processing│◄──│  Data Analysis │
└───────┬───────┘   └───────┬───────┘
        │                   │
        ▼                   ▼
┌───────────────┐   ┌────────────────┐   ◇ Cognos   ┌─────────────────────┐
│Prediction      │   │Exploration of  │◄──  Analysis  ──►│ Regression analysis │
│analysis        │   │data            │                  └─────────────────────┘
└───────┬───────┘   └───────┬───────┘       │
        ▼                   ▼                ▼
┌───────────────┐   ┌───────────────┐   ┌─────────────────────┐
│Train and test  │──►│Model evaluation│◄──│ Visualization of data│◄──
│model           │   └───────┬───────┘   └─────────────────────┘
└───────────────┘           ▼
                    ┌───────────────┐
                    │ Estimated yield│
                    └───────────────┘
```
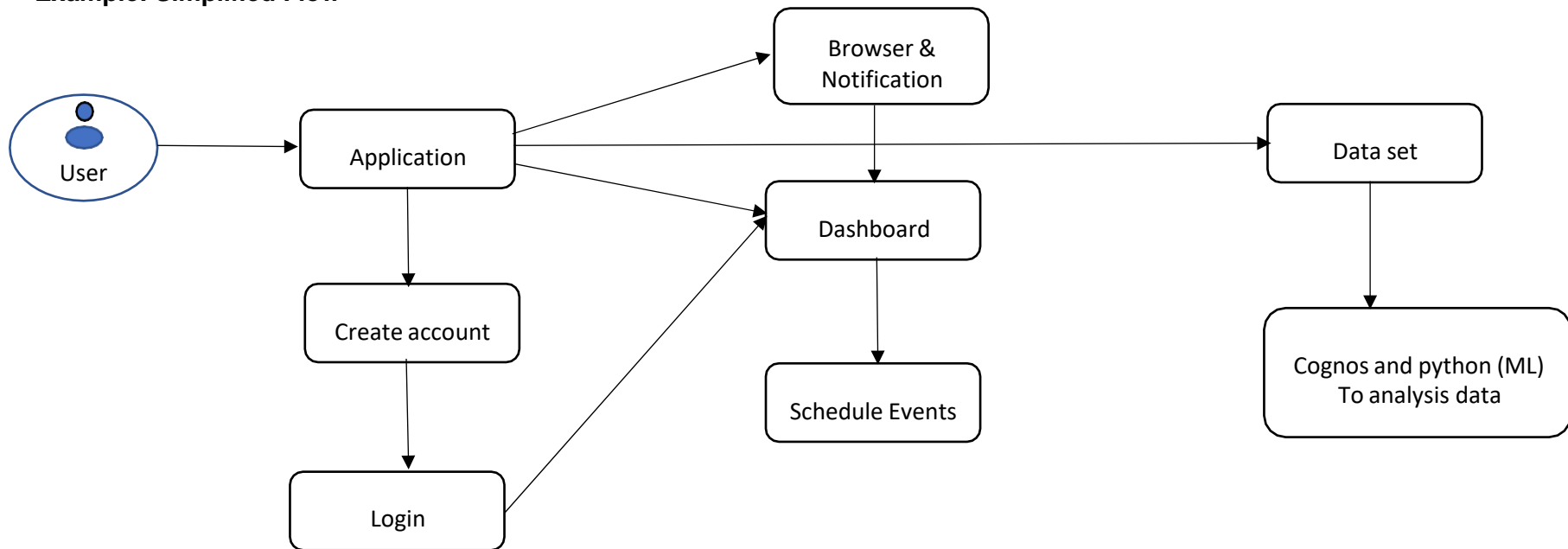
User Stories

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 and Laptop users)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		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		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	Can use the methods provided in the dashboard		Medium	Sprint-1
	Invest	USN-7	With help of desired results obtained from application, making profit or loss	Gain or Loss	High	Sprint-2
Administrator	Updating data		Collecting the data and storing it	Checking and updating dataset	High	Sprint-1
Customer (Web User)	Accessing the resources	USN -8	Using my own credentials for accessing the data	These resources cannot be accessed by others but only me	High	Sprint -1
	Satellite Visioning	USN -9	Having a view with geographic data		Medium	Sprint-2
Customer tools	Tools	USN -10	Analysis is performed by tools like cognos analytics	Ease of accessing the tools	High	Sprint 2