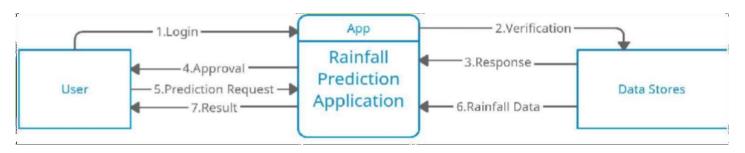
Project Design Phase-II Data Flow Diagram & User Stories

Date	03 October 2022	
Team ID	PNT2022TMID44240	
Project Name	Exploratory Analysis of Rainfall Data in	
	India for Agriculture	
Maximum Marks	4 Marks	

Data Flow Diagrams:

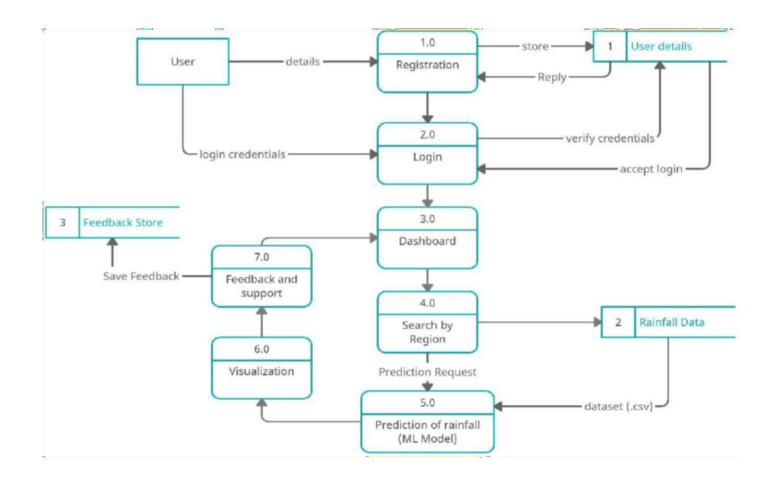
0 – LEVEL DATA FLOW DIAGRAM:



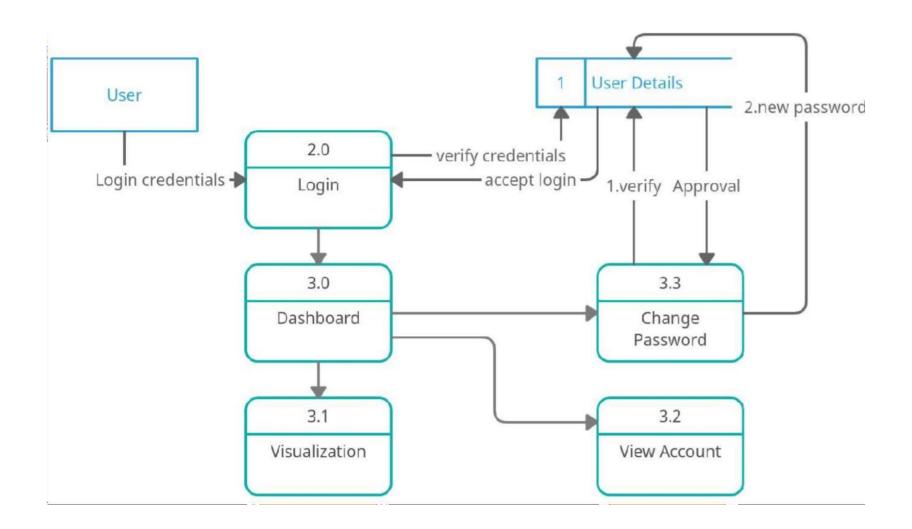
- 1. User logins to the application using his or her credentials.
- 2. Verification of credentials is done using the data stored in the database.
- 3. Application getting the response from the database.

- 4. Approval of login or else an error message for incorrect credentials.
- 5. Prediction request for the particular area or region is sent by the user.
- 6. Application getting the dataset of previous year/month/day rainfall data from the database/cloud.
- 7. The result has been sent to the user as an output after the prediction has been made using the machine learning model in the application.

1 <u>– LEVEL DATA FLOW DIAGRAM</u>:



2. <u>– LEVEL DATA FLOW DIAGRAM</u>:



User Stories

The user stories for the product are listed below

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User in Website	Registration	USN-1	User can register for the application by entering his or her email, password, and confirming the password.	Account specific tasks and actions can be performed.	High	Sprint-1
		USN-2	User will receive confirmation email or message once registered for the application.	Verify the registered Account.	High	Sprint-1
		USN-3	Validation of the user can be done directly using email or OTP.	Account validated and got access to profile dashboard.	Medium	Sprint-1
	Login	USN-4	Enter the username and password to login to the application	Right account credentials should be entered.	High	Sprint-1
		USN-5	The existing credentials should be used for login on multiple systems		Medium	Sprint-1
	Dashboard	USN-6	User can view the visualization of the rainfall data for a specific region in India or for a specific time period.	Searching for the region in India will be accepted only.	High	Sprint-2
		USN-7	User can change his/her password and can view the account details and search history	Verification will be required, and new password should be entered.	Medium	Sprint-2
		USN-8	User can search for the region where he/she wants to know the prediction of rainfall.	Searching for the region in India will be accepted only.	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-9	The prediction or analysis request can be asked for the desired region for future or past events respectively.		High	Sprint-2
		USN-10	User can give the feedback on the accuracy of the prediction and on the user interface		High	Sprint-3
Support Team	Support	USN-11	Responds to user queries via telephone, email etc.	Queries can be raised in situation of doubts	Medium	Sprint-3
		USN-12	The team must analyse all the queries and try to debug and make plans so that such queries wouldn't be raised again		Low	Sprint-3
		USN-13	Organize for a FAQ session where commonly asked doubts can be redressed by the team	The user will get all their doubt clarified	Low	Sprint-3
		USN-14	The team must respond immediately to the queries based on the priority	Queries should get resolved	High	Sprint-3
Core Development Team	Core Function	USN-13	Design, develop the application in such a way that the best user interface and maintenance should be taken care of.	Easy and self- understandable user interface	High	Sprint-4
		USN-14	The website is responsive on all the devices and the screen sizes	User experience should be good irrespective of the devices or platforms	Medium	Sprint-4

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-15	The updates should be on time with the solutions of the raised queries	The existing functionalities should not be affected by the update	High	Sprint-4