

PROJECT DEVELOPMENT PHASE

SPRINT 1

Date	10 November2022
Team ID	PNT2022TMID35368
Project Name	Smart Farmer-IoT Enabled smart farming application
Maximum Marks	8 Marks

Sprint Target:-

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for application online by entering my email or mobile number, password and then confirming my password	5	High	R Abhinav, Rahul Ebenezer, Deepika
Sprint-1		USN-2	As a user, I will receive OTP in email or mobile number for user authentication	5	High	R Abhinav, Rahul Ebenezer, Deepika
Sprint-1	Login	USN-4	As a user, if I can log into the application by entering email/mobile number and password	5	High	R Abhinav, Rahul Ebenezer, Deepika
Sprint-1		USN-5	As a user, if I forget my password I will receive an auto-generated password to reset my password through my email.	5	Medium	R Abhinav, Rahul Ebenezer, Deepika

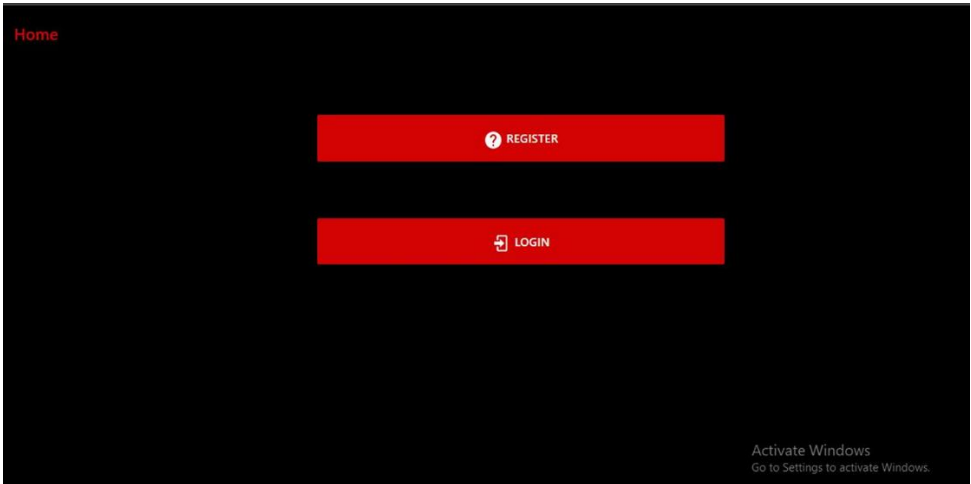
Introduction:-

Registration and Login Page for Web Based Node-RED Dashboard has been created for Smart Farmer- IoT Enabled Smart Farming Application with OTP Authentication and Forgot Password feature. JSON file for the Node-RED flow is provided in the Github repository.



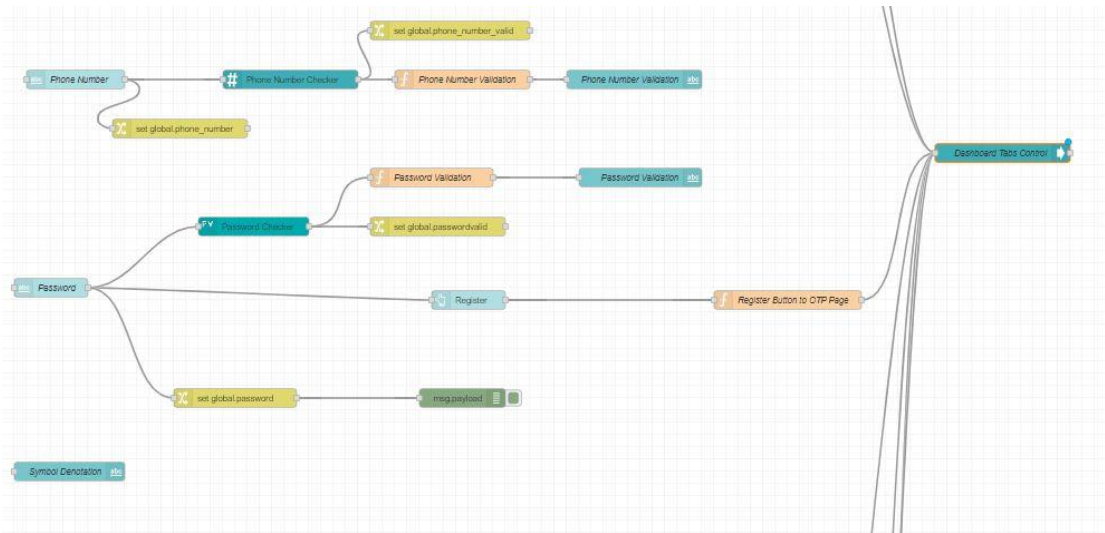
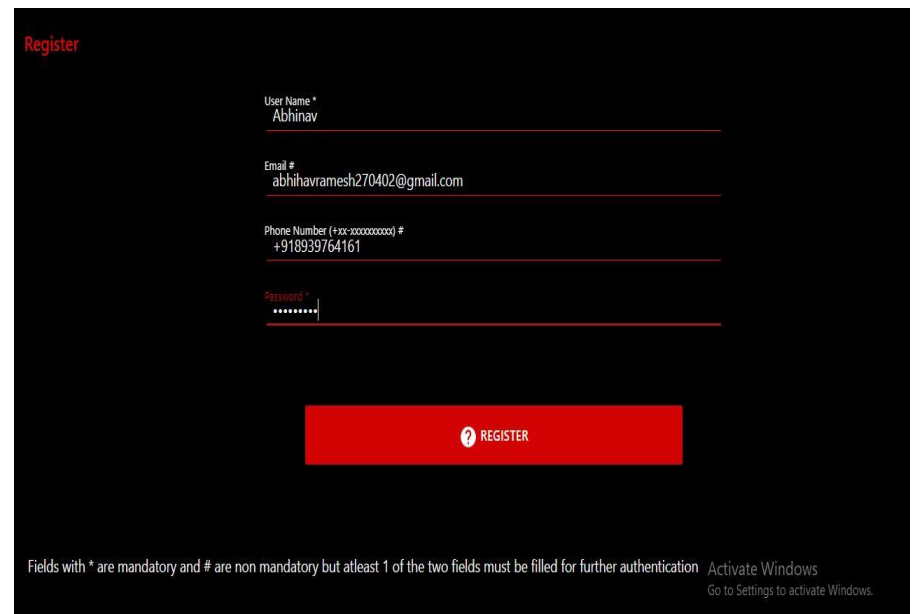
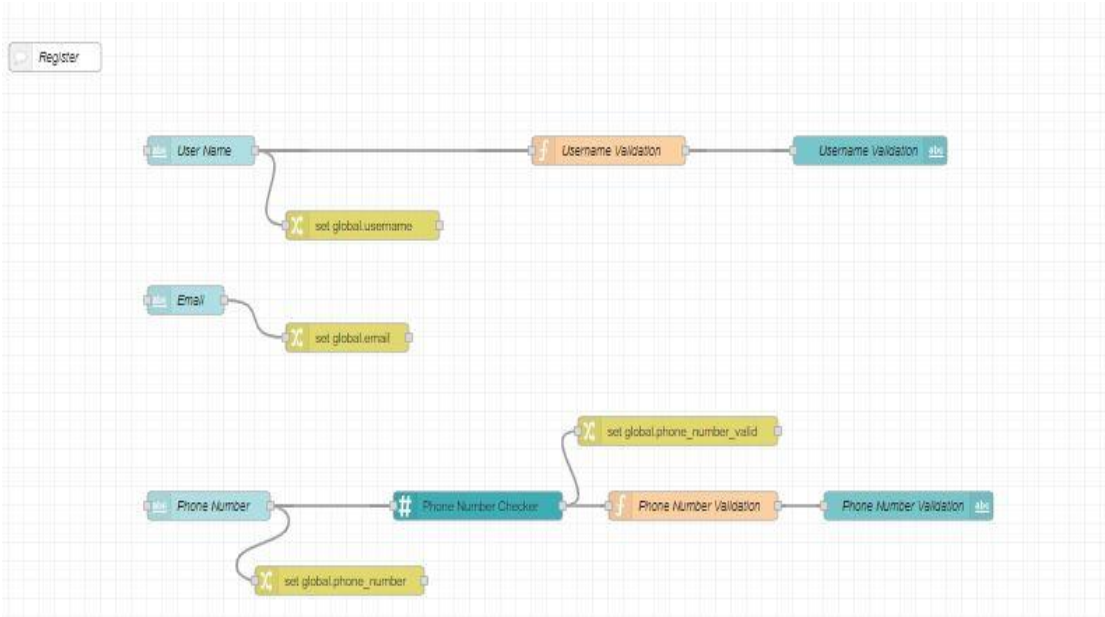
Home:-

Home page is created with buttons to Login and Register leading to corresponding pages.



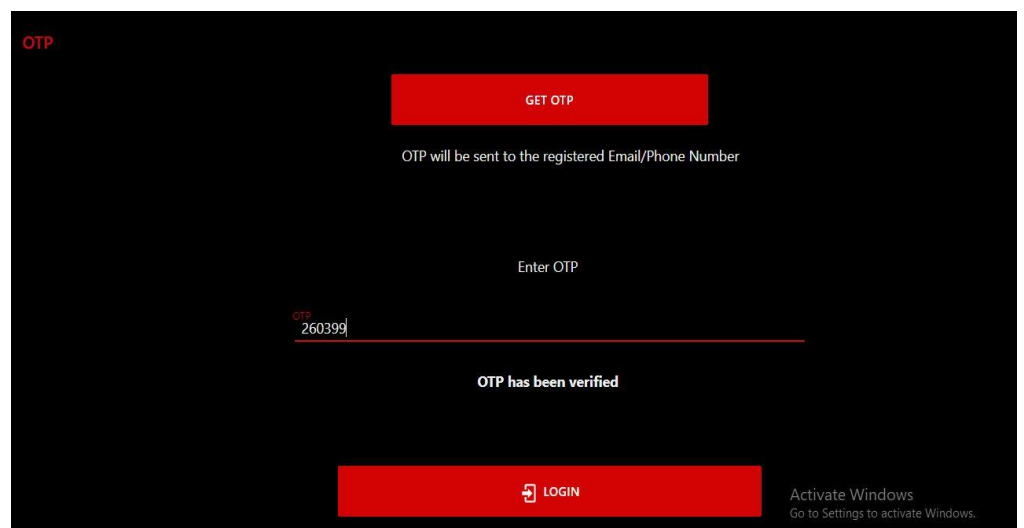
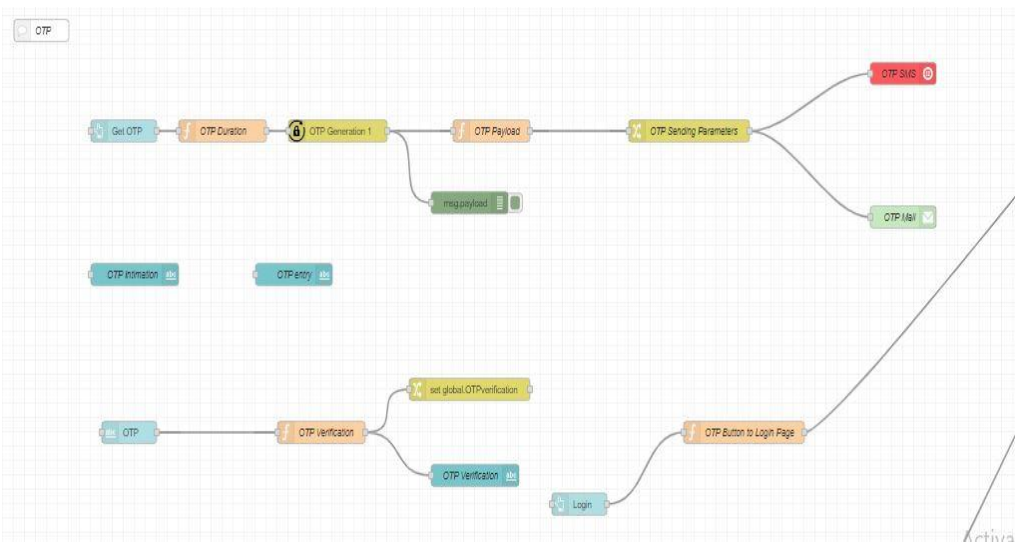
Register:-

Register page has been created where Username, Password for the Dashboard along with Email or Phone Number used for authentication can be entered.



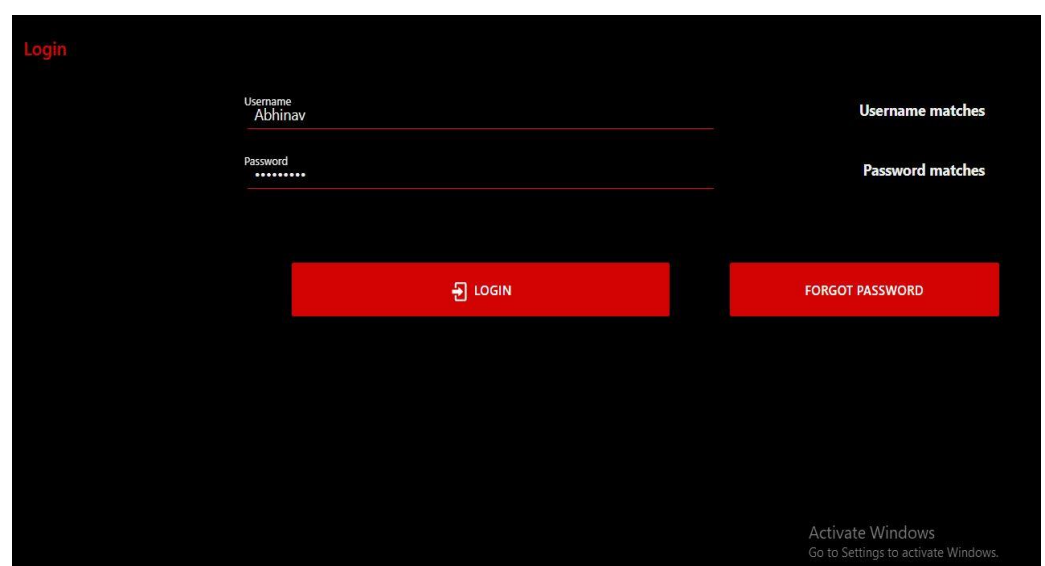
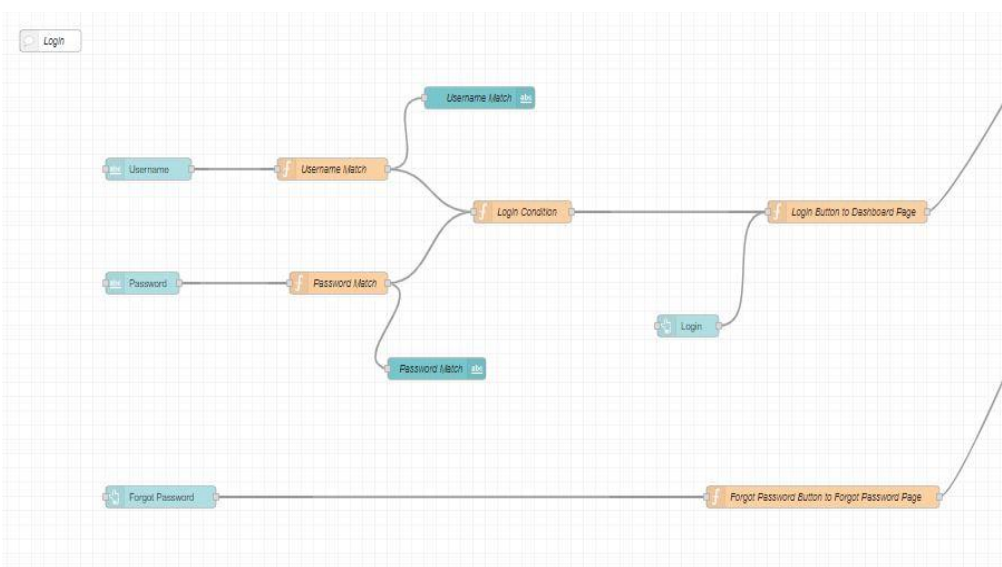
ОТР:-

OTP will be then sent to the register phone number or email from which account can be authenticated.



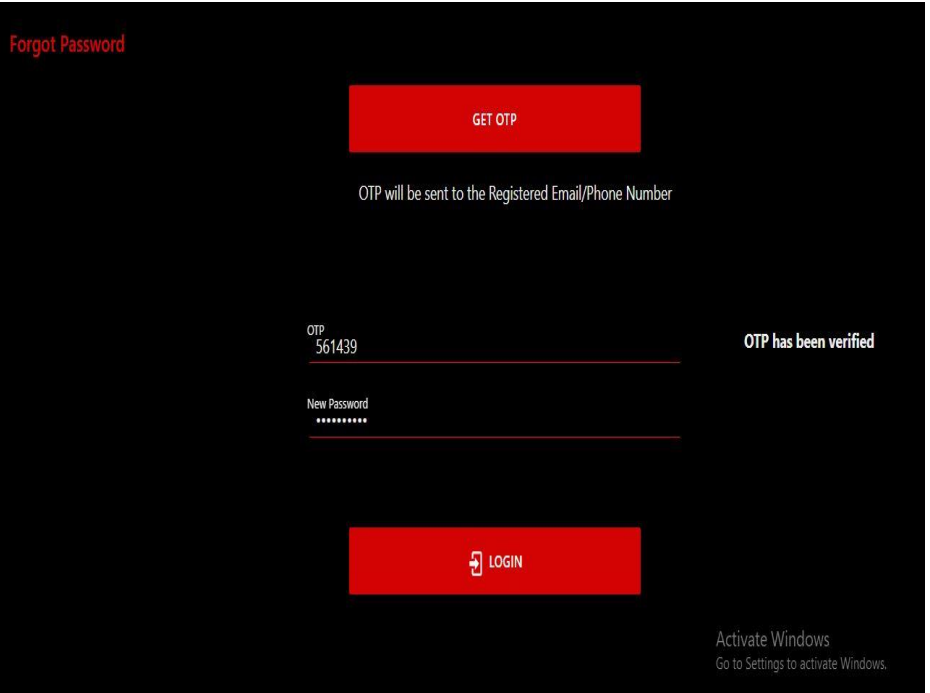
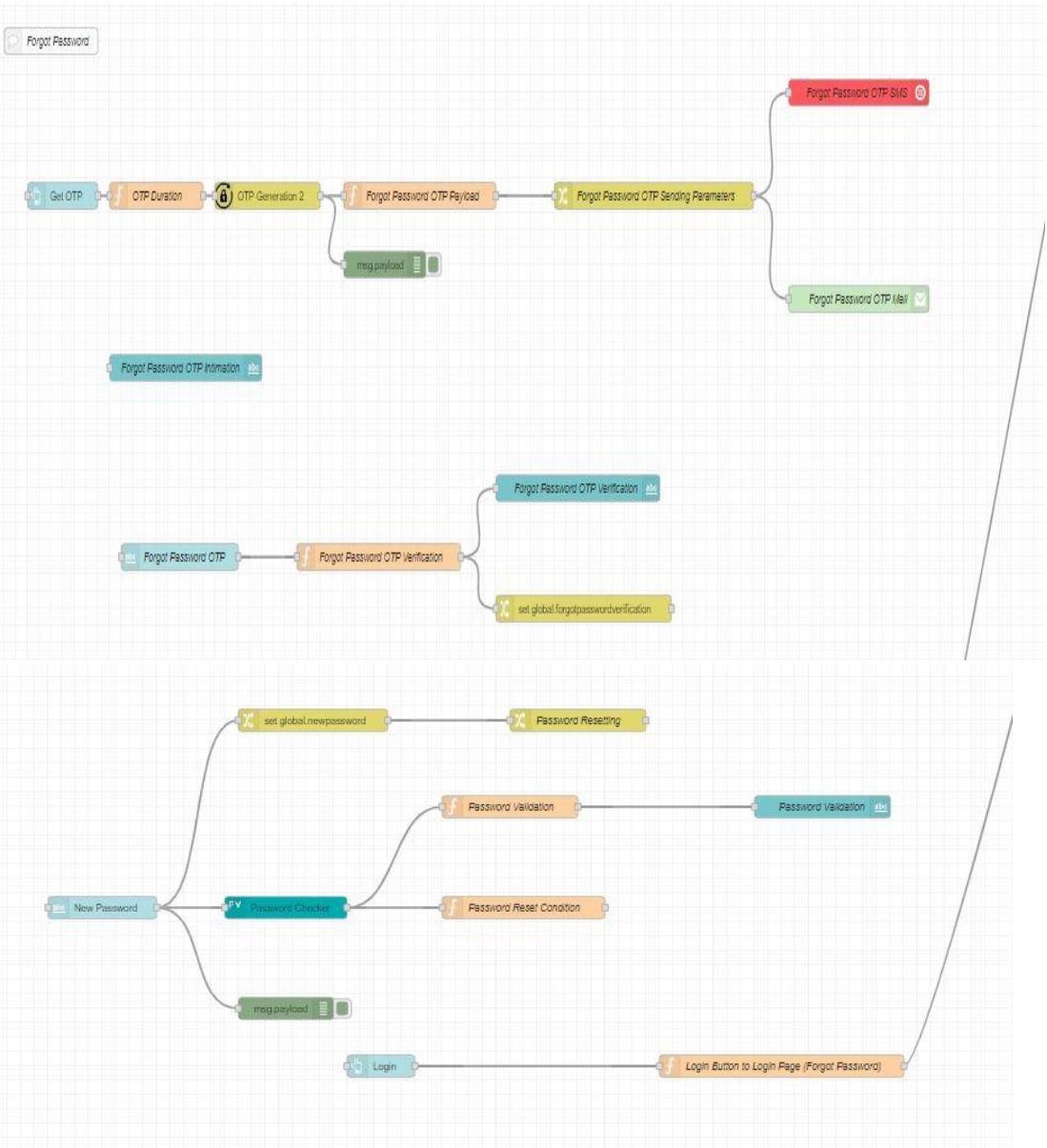
Login:-

Login page is created where registered credentials are verified to login into the dashboard.



Forgot Password:-

Forgot Password page is used when user forgets the registered password. OTP is sent to the registered mail or phone number to verify the user and then provide a text box to enter the new password replacing the old one.



Dashboard:-

Preliminary Dashboard has been created with a “Welcome” which is extended to provide sensor values and actuator control.



Further Works:-

Further works to be done in other sprints are integrating sensors and actuators and displaying and operating them using Node-RED Dashboard. Then, a mobile application is created using MIT App Inventor with final integration of payment gateway for payment and database for storing sensor parameters.