Project Design Phase-II
Data Flow Diagram & User Stories

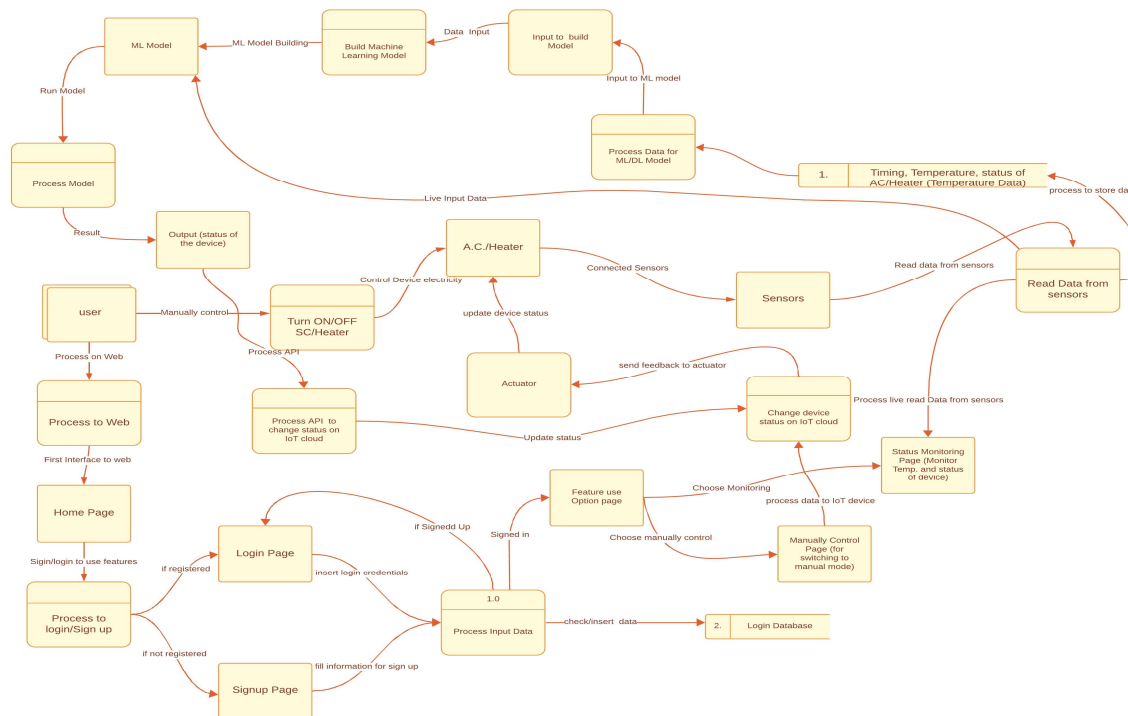| Date	13 November 2023
Team ID	Team-592148
Project Name	Project - Smart Home – Temperature Prediction
Maximum Marks	4 Marks

Data Flow Diagrams:

Figure: High Level Data Flow Diagram (DFD) of Smart Home – Temperature Prediction

User Stories

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Pages Interaction	USN-1	As a Visitor to the Website, I want to be greeted with a welcoming home page that provides an overview of the smart home temperature prediction project.	2	High
Sprint-1		USN-2	As a Visitor, I want to navigate easily to different sections of the website using a user-friendly navigation menu.	1	High
Sprint-1		USN-3	As a Visitor, I want to learn more about the project by visiting the "About" page, which provides information about the objectives and purpose of the smart home temperature prediction.	2	High
Sprint-1		USN-4	As a Visitor, I want to access the "Contact Us" page to find contact details for inquiries and support.	2	Medium
Sprint-2	Prediction	USN-5	As a User, I want to click on a button or link to navigate to the prediction page where I can input various environmental factors for temperature prediction.	1	High
Sprint-2		USN-6	As a User Inputting Data, I want to input data such as CO2 levels, humidity, lighting, and weather conditions into the system for predicting the room temperature.	1	High
Sprint-2		USN-7	As a User Submitting Data, I want to submit the input data and receive a predicted room temperature based on the smart home temperature prediction model.	2	High
Sprint-2		USN-8	As a User Viewing Prediction, I want to see the predicted room temperature displayed clearly on the prediction page.	2	High
Sprint-2		USN-9	As a User, I want the system to provide feedback or confirmation after submitting the input data and receiving the prediction.	1	Low
Sprint-2		USN-10	As a User Navigating, I want to have a consistent and intuitive user interface design across different pages, ensuring a positive user experience.	2	high
Sprint-2		USN-11	As a User, I want the system to be responsive so that I can access and use it on various devices, such as desktops, tablets, and mobile phones.	2	High
All	Sustainability	USN-12	As a Developer, I want the codebase to be well-documented and organized, making it easy for me to understand and maintain the application.	1	High

All		USN-13	As a Developer, I want the system to handle errors gracefully and provide informative error messages to users.	1	
All		USN-14	As a Developer, I want to ensure that user data is securely transmitted over the network, protecting user privacy.	1	
All		USN-15	As a Developer, I want the application to be scalable, handling an increasing number of users and input data without compromising performance.	1	