

Model Development Phase Template

Date	18 June 2024
Team ID	739991
Project Title	Smart Home Temperature
Maximum Marks	5 Marks

Feature Selection Report Template

This report provides an overview of the feature selection process for the [Project Name]. The goal of feature selection is to identify the most relevant and impactful features that contribute to the model's performance.

Feature	Description	Selected (Yes/No)	Reasoning
Temperature sensor	Measures the current temperature in various rooms.	Yes	Essential for monitoring and adjusting the temperature in real-time
Humidity Sensor	Measures the humidity levels in various rooms.	Yes	Helps to maintain comfort levels and prevent mold growth.
User Interface (UI)	Provides a way for user to set desired temperature and view current settings.	Yes	Necessary for user interaction and control.
Mobile App Integration	Allows user to control the temperature remotely via a smartphone app.	Yes	Increases convenience and accessibility for users.

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Smart Thermostat	Adjusts the temperature automatically based on user settings and sensor data.	Yes	Core component for maintaining desired temperature efficiently.
Data Logging	Records temperature and humidity data over time for analysis.	Yes	Important for understanding patterns and optimizing system performance.
Voice control	Enables control of the system using voice commands via smart assistants like Alexa or Google Assistant.	Yes	Enhances user convenience and accessibility.
Energy usage Monitor	Tracks energy consumption of the heating and cooling system.	Yes	Helps in optimizing energy usage and reducing costs.
Weather Forecast Integration	Uses external weather data to adjust home temperature settings.	Yes	Improves system efficiency by anticipating changes in external temperature.