**Capital University of Science & Technology**

**Term Project Proposal**

Department of Electrical and Computer Engineering

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| **Project Title** | | Basic Weather Information Display Using Predefined Data | |
| **Course Title** | | ICT LAB | |
| **Sr. No.** | **Student Name** | | **Registration Number** |
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| **Idea:**  This project involves creating a system that displays basic weather information using predefined data stored in a local database or a static data file. The system provides users with essential weather details such as temperature, humidity, and weather conditions (e.g., sunny, cloudy, or rainy). The purpose is to simulate a weather information display without relying on live data sources or APIs.  **Objectives:**  **1. Data Display:**  Develop a user-friendly interface to display weather information for predefined locations.  **2. Efficient Data Retrieval:**  Implement an efficient method to retrieve and present stored weather data based on user inputs (e.g., location selection).  **3. Static Database Creation:**  Design a static database containing weather data for various locations and time periods.  **4. User Interaction:**  Enable basic user interaction, such as selecting locations and viewing corresponding weather details.  **5. Low-cost Implementation:**  Build a cost-effective system using basic hardware/software platforms (e.g., microcontrollers, Raspberry Pi, or simple desktop applications)  .**Applications:**  **1. Education and Demonstration:**  Use in classrooms to teach concepts of data retrieval, storage, and display systems.  **2. Prototyping Weather Displays:**  Serve as a prototype for larger weather display systems that use real-time data.  **3. Event Scheduling:**  Provide a simple solution for events or locations with a need for basic weather reference data.  **4. Standalone Displays:**  Use in remote areas where real-time weather data access is limited or unnecessary.  **Block Diagram:** |

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| **Instructor Remarks** | **Student 1 Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Student 2 Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
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| **Instructor’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |