**Capstone Project Title Approval Form**

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| **Group Code: [SD-3E1]**  **Proponents** | | | |
| **Project Leader:** June Charles Mariquit | | | |
| **Group Members:**  Jayron David Sadian  Daniela Marquez  Rubylyn Rey | | | |
| **Proposed Capstone Project Title** | | | |
| *Weather Reporting System* | | | |
| **Name and Contact No. or Target Organization** | | | |
| Smart home system | | | |
| **Platform** | | | |
| IoT device/Mobile Application | | | |
| **Background of the Organization/Firm/Target Pilot Area** | | | |
| Smart home system is an advanced technology that allows home owners to control appliances or devices remotely using a smartphone through an internet connection. | | | |
| **Problem Statement** | | | |
| ***Problems*** | ***Causes*** | | ***Solutions (As a Feature of your System*** |
| Lot of people are getting sick because of climate change because we don’t know if it will be a rainy day or it will be a sunny day. | People can’t prepare what they will wear or whether they will bring an umbrella or a raincoat. | | Application that quickly tell you what the weather will be like and suggest what to carry whether an umbrella or you should apply a sunblock |
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| **Objectives** | | | |
| This study aims to develop an weather reporting system for smart home that has the following specific objectives | | | |
| ***Specific Objectives*** | | | |
| 1. To provide accurate and timely information about current weather conditions, including temperature, humidity and wind speed; 2. To forecast future weather patterns, including short-term forecasts and long-term forecasts; 3. To issue warnings and alerts for severe weather events, such as hurricanes, tornadoes and floods; 4. To promote public awareness and education about weather-related phenomena. | | | |
| **Specific Functions and Features** | | | |
| 1. Real-time weather data 2. Data processing and analysis 3. Forecasting 4. Severe weather monitoring alerts | | | |
| **Significance and Possible Users** | | | |
| * Smart home owners | | | |
| **Level of Feasibility** | | | |
| * The proposed project is feasible because smart home owners can gain a comprehensive understanding of the practicality, viability, and sustainability of a weather reporting system and make informed decisions about whether to proceed with implementation. | | | |
| **For Review Committee Only** | | | |
| **Comments:** | | | |
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| Status:  For Revision  Approved  Disapproved | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature Over Printed Name | |

**Note:** You may attach the results of your survey and feasibility analysis, if needed.