**PROJECT NAME: SMART HOME LIGHTING**

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| **REQ. #** | **FUNCTIONAL REQUIREMENTS** |
| **1** | The application should allow user to register and log in to the application with a username and password |
| **2** | Users should be able to connect their smart lights to the system through application. |
| **3** | Users should be able to control lights through application. |
| **4** | The system should save the current location of the object to help find it, if it gets lost. |
| **5** | When users want to find their objects the light at the saved location should blink to attract their attention. |
| **6** | The system should integrate with smart assistants such as Google Assistant and Alexa to support. |
| **7** | The system should have create an automatic lighting scenarios based on users habits. |
| **8** | The system should allow users to reminders for important items(e.g., medication reminders) and trigger lights accordingly. |
| **9** | The application should provide a history log of searched items, allowing users to track their frequently misplaced objects. |
| **10** | The system should support voice commands for controlling the lights and locating objects. |
| **REQ. #** | **NON-FUNCTIONAL REQUIREMENTS** |
| **1** | The application should have a user-friendly interface that is intuitive and easy to navigate. |
| **2** | The system should respond to user commands with in 0.09 seconds for optimal performance. |
| **3** | The smart lights should save energy by dimming after two minutes of no movement and turning off completely after five more minutes, reducing electricity use and environmental impact. |
| **4** | The application should support multiple languages to improve accessibility for users worldwide. |
| **5** | The system should be scalable, allowing the addition of more smart lights and devices without performance degradation. |
| **6** | The application should ensure data privacy by complying with industry standards. |
| **7** | The system should be able to function in offline mode, with limited capabilities, in case of internet failure. |
| **8** | The cloud storage should ensure %99.9 uptime, providing a reliable service to users. |
| **9** | The system should be compatible with both iOS and Android devices, including smartphones and tablets. |
| **10** | The system should encrypt all user data, both in transit and at rest, to ensure maximum security and prevent unauthorized access. |