Voice Controlled ESP32 Smart Switch Board

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Abstract: This project is a cost-effective and easy-to-implement smart home automation system that integrates voice-controlled assistants, such as Amazon Alexa and Google Home. The system uses an ESP32 microcontroller and an 8-channel relay module to control various devices in the home and communicate with the voice-controlled assistants through the internet. The project was successful in controlling devices using voice commands and is reliable and attractive to users. The proposed system provides a convenient and intuitive solution for smart home automation.

Individual contribution and findings: I conducted a thorough literature review on the latest advancements and technologies in smart home automation for research and development. Designed and conducted experiments to gather data and validate the proposed solution. Analyzed the results and contributed to the project report and presentation by writing about it and drawing conclusions based on the findings. Collaborated with the team to integrate the research findings into the overall project design and implementation. Overall, contributed significantly to the research and development aspect of the project, ensuring that it was grounded in the latest research and technology.

Individual contribution to project report preparation: I read literature surveys and compiled relevant research to include in the introduction and background studies section of the report.

Individual contribution for project presentation and demonstration: I explained about the need of our project and the competition in the current market and how is our project better than those which are there in the market.

Full Signature of Supervisor/s: Full signature of the student: