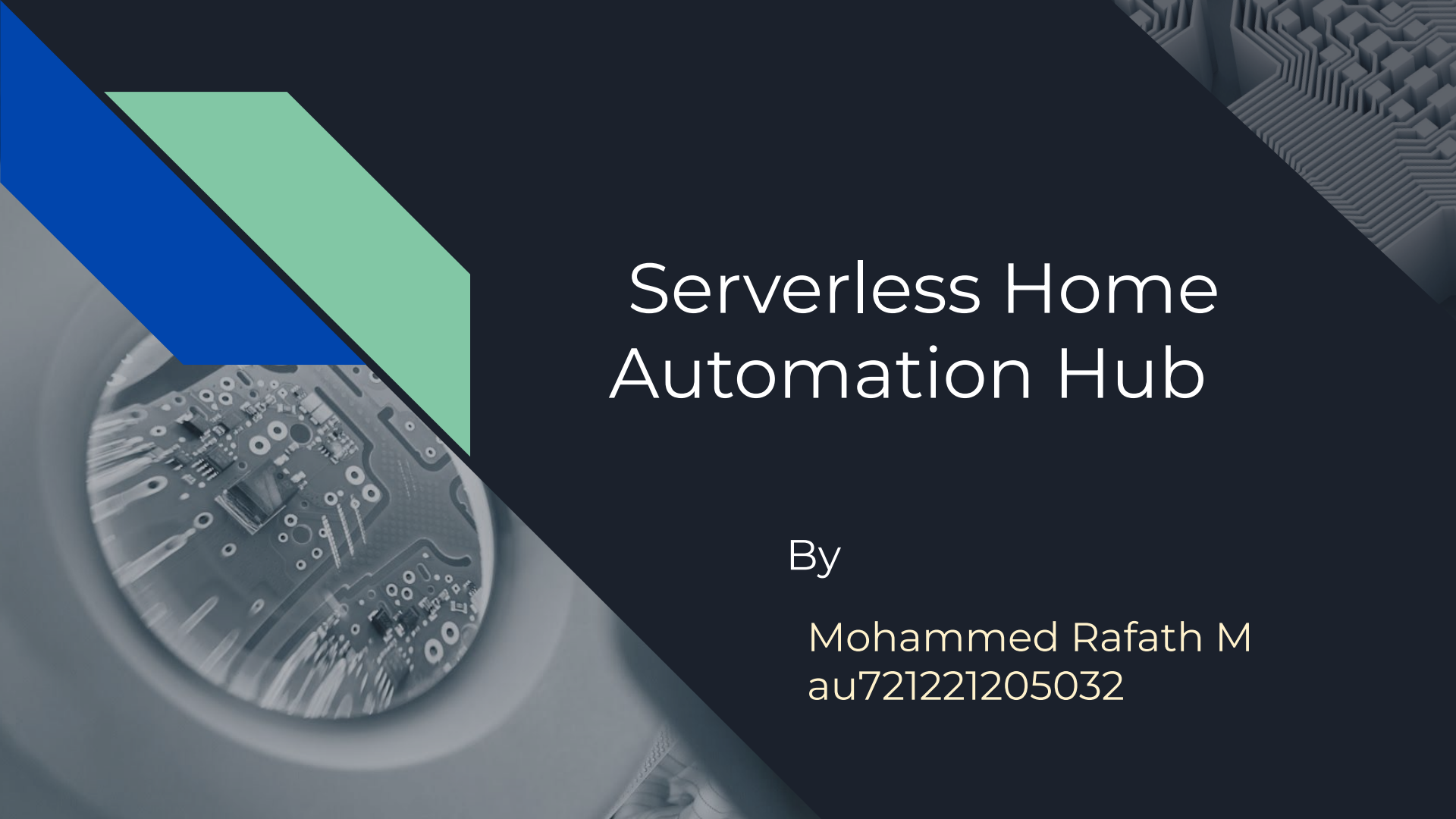

Serverless Home Automation Hub

By

Mohammed Rafath M
au721221205032

PROBLEM STATEMENT:

- Home automation and remote control of devices have become increasingly popular, but there's a lack of affordable and flexible solutions that allow users to control their devices using both voice and text commands.
- Existing home automation solutions often require complex setups and are not easily customizable to fit the user's specific needs.
- Users are looking for a simple and cost-effective way to control devices such as power outlets, lights, and appliances with voice and text commands.
- Traditional home automation solutions may not integrate well with IoT devices and may not offer serverless, event-driven capabilities.

IDEA DESCRIPTION:

- Our idea is to create a serverless home automation hub that allows users to control their devices using voice and text commands. The system is designed to be affordable, customizable, and versatile.
- Users can issue voice commands or send text messages to control various household devices such as power outlets, lights, and appliances.
- The Raspberry Pi serves as the central controller, receiving commands via RF signals and translating them into actions.
- IBM Cloud services provide natural language processing capabilities, enabling the system to understand user intent and determine which devices to control.
- The system provides a flexible, cost-effective, and user-friendly solution for home automation.

BENEFITS:

- Affordability
- Customization
- Voice and Text Control
- Event-Driven
- Ease of Use
- Integration

TECHNOLOGY STACK:

- ★ Raspberry Pi 3
- ★ 433MHz RF Transmitter and Receiver
- ★ IBM Cloud Services
- ★ Watson Assistant
- ★ Watson IoT Platform
- ★ Twilio
- ★ Node.js Server
- ★ WiringPi and 433Utils Libraries


THANK YOU.....