



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**SECP1513 - TEKNOLOGI DAN SISTEM MAKLUMAT**

**( TECHNOLOGY AND INFORMATION SYSTEM )**

**DESIGN THINKING PROJECT - PROPOSAL**

# **ELECTRIC STOVE CONTROLLER APP**

**LECTURER NAME : DR. AZURAH BTE A SAMAH**

**STUDENTS' NAME : BHARATH RAJ A/L MANIVANNAN (A23CS0057)**

**MUHAMMAD KHAIRUL HAKIMI BIN MOHD KHALID (A23CS0133)**

**NIK BALQIS BINTI NIK JEFRY (A23CS0256)**

**ADRIANA MUNIRAH BINTI ADIEKHASHMADMAJAR (A23CS0034)**

**LEO MIN XUE (A23CS0237)**

**SECTION : 01**

**GROUP : 07**

# **Brief Description**

## **Problem**

One of the incidents that might happen at home is when people leave their house without knowing they are cooking something on the stove. This could lead to some unwanted problems and safety hazards, such as food overcooking. Even worse, the food overflows on the electrical components of the stove. Another problem that needs to be addressed is child safety. Accidents could occur due to the curiosity of children.

## **Solution**

So as to work out this problem, our solution is to introduce an application that allows users to easily control their electrical stoves from their mobile phones in order to avoid potential disasters. This application also provides different kinds of functions other than turning them on or off. For instance, users can set a timer and also control the temperature of the stove according to their wish.

## **Existing Tangible / Intangible Product**

There are already smart home products and apps available on the market that let customers monitor and operate their kitchen appliances from a distance. A few instances are smart plugs, smart ovens, and kitchen gadgets that are linked with virtual assistants like Google Assistant or Amazon Alexa. In order to improve user comfort and safety, these systems frequently include features like scheduling, remote control, and alerts.

# Differences / Uniqueness

## Specific Focus on Stove Control:

- The Electric Stove Controller App is made especially for electric stoves and offers a specialized and customized solution for stove management, even if there are general smart home solutions available.

## Simple and Essential Functionality:

- The app focuses on a straightforward yet crucial function, remote on/off control of the electric stove. This simplicity enhances usability and ensures that the primary safety concern of stove control is addressed effectively.

## Feature for Reminders:

- This app includes a reminder feature that will give alerts to users to avoid leaving the stove unattended. Also, notify the users to always remember that they are cooking something and the app can turn off the stove automatically if there is no response from the users after timely reminders to prevent any risk of forgetting to turn off the stove which can lead to accidents at home.

## Specialized Safety Measures:

- The app introduces specialized safety measures like password access and child lock function. These features improve safety by limiting individuals who can access the stove, especially in households with children.

## Energy Usage Tracking:

- An innovative feature of the app includes the capability to trace the energy usage of the electric cooker. This empowers users with insights into their energy consumption patterns, fostering awareness and encouraging energy-efficient cooking practices.

## User-Centric Interface Design:

- The app prioritizes user-friendliness through an intuitive interface. Users can easily navigate and access features, making the app accessible to individuals with varying levels of technological expertise.