



UNIVERSITI
TEKNOLOGI
MARA

Cawangan Perak



BUILDCON2023

**COMPILATION OF PROJECT INNOVATION IDEAS
SEMESTER MARCH – AUGUST 2023**

EMBRACING SMART CONSTRUCTION TRANSFORMATION

BUILDERS' CONVENTION DAY 2023

**Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch**

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COMPILATION OF PROJECT INNOVATION IDEAS
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Organised by
Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch
Malaysia

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Perpustakaan Negara Malaysia

Cataloguing in Publication Data

No e- ISBN: 978-967-2776-24-6

Cover Design: Muhammad Naim Mahyuddin

Typesetting : Siti Akhtar Mahayuddin

e ISBN 978-967-2776-24-6



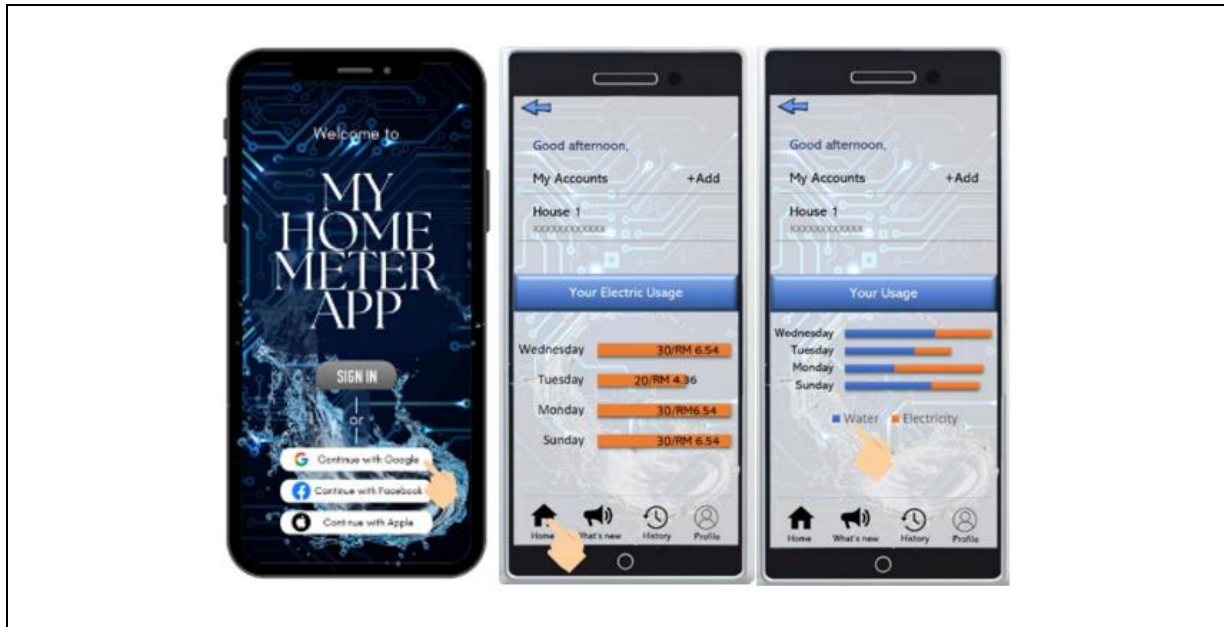
MYHOMEMETREAPP

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MyHomemetreApp

Innovation Idea:

One of the most pressing issues confronting civilization in recent decades has been the use of energy. Several techniques have been implemented to minimise energy consumption, such as encouraging the use of renewable energy sources or boosting energy efficiency. However, as people's usage of electronic devices for entertainment and online meetings or lessons increases, electricity and water expenditures also rise day by day. This study addresses the issue of the increasing carbon emissions in Malaysia due to residential and commercial energy consumption. When excessive electricity is used in residential and commercial buildings for lighting, heating, cooling, appliances, and other activities, indirectly it contributes to the emissions of more carbon dioxide (CO₂) into the air, specifically if the electricity is generated from fossil fuels. Electricity generation is a significant contributor to greenhouse gas emissions, especially when fossil fuels are used as the primary energy source. Excessive use of water in residential areas can indeed contribute to the depletion of water resources and lead to a range of environmental and socio-economic challenges. Furthermore, if the number of people keep growing from day to day, the electricity bill, as well as the water bill, will rise. Therefore, the MyHomeMetreApp concept should be developed to monitor electricity and water usage to be at an optimum level. Innovation framework was used as the method to develop this innovation. The research was conducted with several objectives, which are to identify the current issues, determine what can be improved from the previous home metre invention, demonstrate the performance and use of the MyHomeMetre application, and evaluate the product's marketability potential. All of this was done to improve and address every issue with regards to the current home metre.

Surat kami : 700-KPK (PRP.UP.1/20/1)

Tarikh : 20 Januari 2023

Prof. Madya Dr. Nur Hisham Ibrahim
Rektor
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Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah,

SITI BASRIYAH SHAIK BAHARUDIN
Timbalan Ketua Pustakawan

nar

Setuju.

27.1.2023

PROF. MADYA DR. NUR HISHAM IBRAHIM
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