

ObeM 2.0: Obesity Management Secured System 2.0

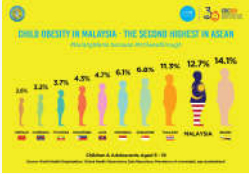
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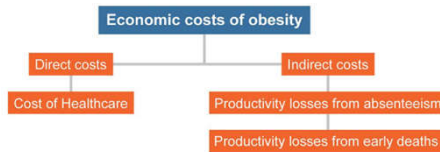
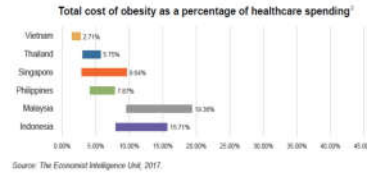
Patent

- Copyright number: LYC2020005491, LYC2020005490
- Filing date: 04/11/2020

BACKGROUND



Obesity issue is a critical issue at Malaysia. It leads to economic costs, direct & indirectly.



OBESITY TREATMENT ISSUES



Issues: Many obesity clinics are handling obesity patients monitoring manually. In the monitoring process, patients have to come to the obesity clinic in every appointment to do check up.
 Klinik Kesihatan has obesity monitoring service, but without surgeons.
 Comprehensive obesity clinics (dietitians, internal medical doctors, surgeons) are not many at Malaysia. In one state, only 2 or 3 clinics. Patients may need to travel far to go to these clinics for every appointment.

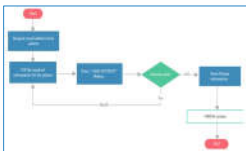
NOVELTY / BENEFITS

- Monitoring from far by the nurses / dietitians / doctors.
- Tight security.
- Ease the monitoring process.
- Encourage the adoption of healthy diet.
- Features of the system:
 - Monitoring user modules (admin, nurses, dietitians, doctors, patients)
 - Monitoring obesity health factors
 - Manage appointments
 - Manage health reviews
 - Manage diets

STATUS OF INVENTION

Criteria of Invention	Status
Product Development/Market Readiness	Done / Published in Play Store
Functionality of Product	No error
TRL Level	6
Status of Finished Product	Demonstration in real environment (TRL 7) Lab validation ✓ Demonstration to Klinik Diet, IUM ✓
Lab Report/Documentation	Patients' feedback survey ✓ Public feedback survey ✓ Experts' feedback survey ✓

SECURITY SYSTEM



DIET SUGGESTION

Sumber kalori: Panduan Kalori KKM

COST ANALYSIS

Items	Estimation Cost (RM)
Software Development Charge	2800
Deployment (Android) (Google Play store)	120
Cloud hosting server (Digital Ocean)	242.37 (Monthly)
Domain name	24 (Yearly)
Total:	3,186.37

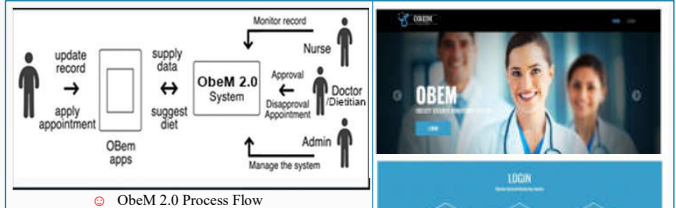
EXISTED APPS in THE MARKET

No professional monitoring

Stand-alone apps

PROPOSED SYSTEM

ObeM: A system, linked with an application to monitor patients every week, without facing all the hassle to come frequently to the clinic. Helps the clinic staff to ease the process of monitoring (diet, body data, health condition) without the patients have to come to the clinic for every appointment.



Status: TRL 6

ENVIRONMENTAL IMPACT

- Less mobile movement
- Less time consuming

INDUSTRY / RESEARCH PARTNERS

Klinik Aziani – Clinic system requirement

SERASIES Solution – Marketing the system

Klinik Diet, Dept. of Nutrition Sciences, IUM – Monitoring system requirement

MARKETABILITY / MARKET STUDY

- Obesity clinics
- Klinik Kesihatan
- Diet & Surgery Dept. in Hospitals (government and private)

PUBLICATION

- Dinesh D. (2021), ObeM: Obesity Monitoring Secured System, Undergraduate Thesis of UMP.
- Dinesh D. & Hisham, S. I. (2021), ObeM: Obesity Monitoring Secured System, ICSECS 2021, IEEE (Scopus) Proceeding (Submitted)

ACHIEVEMENT

- GOLD, CITREX 2020
- SILVER, ITEX 2020
- SILVER, FYPRO-COM, 2021
- Copyright: ObeM Mobile Apps (LYC2020005491) & ObeM Web System (LYC2020005490)

Published in Play Store