



UNICEL 2017

UNIVERSITY SULTAN ZAINAL ABIDIN
UniSA CARNIVAL ON e-LEARNING



KEMENTERIAN PENDIDIKAN TINGGI

SOARING UPWARDS
MALAYSIAN HEALTH EDUCATION

MEIPTA

IIDEL COMPETITION

INVENTION, INNOVATION & DESIGN ON e-LEARNING (IIDEL) COMPETITION

CanDi

A MALAYSIAN-TAILORED DIETARY SMARTPHONE APP FOR CANCER PATIENTS AND SURVIVORS

Abstract

Currently available nutritional information in smartphone apps is usually based on western food selections. Our **Cancer Dietary App (CanDi)** aims to provide specifically-targeted health education in terms of dietary advice with emphasis on the related symptoms of cancer and/or its treatment. Besides **patients, survivors and dieticians**, students of dietetics programme could also hugely benefit from the knowledge as well as its applicability during their hospital attachment. CanDi serves as a convenient, flexible and attractively engaging smartphone app which delivers healthy **tips uniquely tailored to the local food choices**, preferences and ingredients. It facilitates customising of users' dietary needs while permitting constant information up-dating. Features are broadly categorised into **Healthy Eating Guide** (advice from healthy eating to eating problems, weight loss prevention and increasing proteins and calories intake) and **Malaysian Recipes For Cancer Patients** (focusing on common Malaysian dishes, ingredients, treatment-based recipes and special diets). An additional **Symptom Diary** allows user's personal profile to be recorded. Very good feasibility (> 80%) and excellent acceptability (> 90%) were reported by a sample of 30 cancer patients, family caregivers and dietitians regarding its ease of operation, suitability of language used, attractiveness, knowledge enhancement and perceived usefulness. Thousands of cancer sufferers in the community are expected to benefit from CanDi, hence creating a huge, untapped market potential for future commercialisation efforts.

Objectives

- To develop an app that provides **nutrition advice** for **cancer patients & survivors**.
- To test the **feasibility and acceptability** of CanDi App among potential users.

Value-Added

First app to tailor Malaysian food for cancer patients and survivors.

Dietary advice with matched symptoms.

FEASIBILITY & ACCEPTABILITY TEST

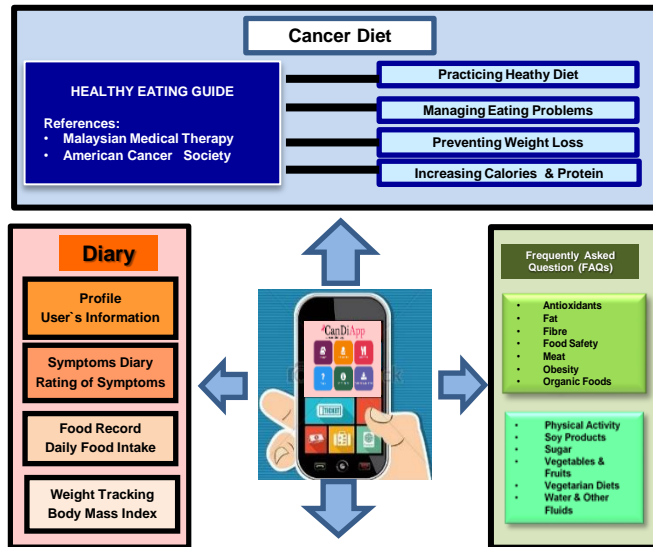
Sample selection (n = 30)

Recruitment site

- Inclusion criteria:**
- Adults
 - Able to use the gadget/ device
 - Able to comprehend English
- Exclusion criteria:**
- Not owner of a personal smartphone
- Target groups:**
- Cancer patients
 - Family caregivers
 - Dieticians

Weekly cancer clinic
Hospital Sultanah Nur Zahirah
Kuala Terengganu.

GENERAL OVERVIEW



Malaysian Recipes

<p>Treatment Related Recommended recipes: - During treatment - After treatment</p>	<p>Dishes Recipes for: - Main meals - Breakfast - Extra dishes - Snack & dessert - Beverages</p>	<p>Ingredients Main ingredients: - Fish - Chicken - Meat - Grains - Fruits - Vegetables</p>	<p>Special Diet Special diets: - High or low energy - High protein - Low fat - Neutropenic - High fibre</p>
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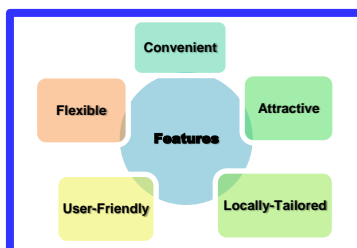
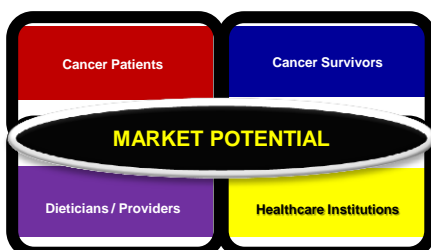
Usefulness

Up-to-date local information & user-friendly

Convenient, flexible & high-sustainability

Attractive features for specifically-targeted cohorts

Commercialisation Potential



Recognition

Silver Medal
Minggu Penyelidikan & Inovasi UniSA
12- 13 April 2017

Silver Medal
UniSA Carnival on e-Learning
(UNICEL)
3-4 May 2017

Innovator Details

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