

# Design and Development of a Collaborative Reminder Aid System for the Elderly

## Description:

Malaysia will become an ageing nation by 2035. This gives rise to the alarming local scenario that an increasing ageing population will require the adaptation of healthcare and social support system to live independently and successful ageing lifestyle. The elderly are susceptible to memory decline and they are easily forgetful of remembering tasks-to do and events. A feasibility study on 'forgetfulness' was conducted on elderly. It revealed that the elderly requires a collaborative reminder aid to remind them their daily chores and tasks to-do to perform their instrumental activities of daily living (IADL). They need a cue or reminder aid to remind them, and also the aid can be collaboratively shared by their family members and/or caregivers for social support and reminder notification. This research proposed **developing a Collaborative Reminder Aid System** that works as a virtual independent personal assistant for the elderly. It enables the family members, care-givers and the elderly to stay socially connected and, collaboratively support the elderly's IADL's needs. The prototype adopts a UCD (user-centered design) approach, which has four phases of 'Plan', 'Design', 'Develop' and 'Review'. **This reminder aid system can synchronize on both mobile and Web-based platforms for collaborative supported cooperative work.** So far the other existing reminder aids only allow for one-way communication and lack of collaborative function of reminding IADL activities. The system also helps to increase inter-generational communication and socially connected with external parties such as caregivers and peers. The prototype is in accordance with the National Transformation Policy (2011-2020) of 'enhancing inclusiveness towards an equitable society', and National Policy for the Elderly (2015) to ensure the elderly stay active, productive and independent living.

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**Position: Research Officer/Research Assistant (RO/RA) as a Mobile App and Web-based Developer**

**Salary:**

Min RM1500/month for 2 years, or RM3000/month for 1 year (depending on experience)

**Skillsets required:**

Your job is to develop a mobile app, on Android and iOS platforms. You have experience or show capability of creating a workable mobile application on smartphones and/or cross-platform on Web. Extra knowledge and skills on developing iOS or other mobile OS will be in advantage.

Android (Java, nodejs), MySQL, PHP, React Native, and/or Angular, Objective-C.

**Duration:** 2 years (2018 – 2020)

**Contact for further enquiries:**

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