

NALAIYA THIRAN

USER CASE: PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

TEAM LEAD: KAVIPRIYA.K. S

TEAM MEMBER 1: ISHRATH BEGUM.I

TEAM MEMBER 2: DIVYA VANI.R

TEAM MEMBER 3: KAMAL RAJ.R

TEAM MEMBER 4: HARISH KUMAR.A

BEST OF THREE PROBLEM STATEMENTS:

PROBLEM STATEMENT 1: Home automation refers to control the home appliances by using computer technology. Computer Systems enables from remote control of lighting through complex micro-controller or computer -based networks with various degrees of intelligence and automation. Home automation provides security, energy efficiency, ease of use for elderly people and also to other age peoples hence, it is adopted more. It also provides remote interface to home appliances to provide control and monitoring on a web browser.

PROBLEM STATEMENT 2: Elderly people who are living independently have a high risk of falling and injured themselves. Falling down and become unconscious can be fatal because nobody is aware of this falling event which may lead the faller to have more severe injuries. It is important to have a quick response and rescue time if falling event occurs. There are several technologies out there to help detecting fall in elderly people. One of the fall detection systems utilized the webcam to monitor the activities of elderly people and detecting fall. However, the cost of installation and operation is expensive and it is only applicable for indoor environment. Therefore, there is a need for a device that can detect fall and transmit signal for help automatically.

PROBLEM STATEMENT 3: Health is one of the most important things for most individuals because without a good health nothing seems to go well. In recent times new diseases have emerged which needs to be taken care by taking medicine or pills routinely. In addition, the working conditions of some individuals is bad

and hectic which resulted them in forgetting to take their administered medicine or pills in the appropriate timing or proportion and for some people due to old age, most elderly people suffer from dementia (forgetfulness). Not taking the prescribed medicine at the proper dosage or sometimes could result to what is referred to as medicine adherence which can be stated to as the extent at which the medicine is taken at the correct prescribed time and proportion. Medicine adherence is a very serious problem because it may affect the total well-being of the patient, delaying the curing time and also raising the total medical cost of the patient. As such the design and development of an IOT based medicine or pill reminder could help in curing out the above-mentioned problems by reminding patients to take their medicines as prescribed by the doctor within the stipulated time.

EMPATHY MAP CANVAS:

