NAALAIYA THIRAN PROJECT - 2022
19ECI01-PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP

PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT

A PROJECT REPORT

Submitted by

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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NOVEMBER 2022

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BONAFIDE CERTIFICATE

Certified that this report **"PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT"** is the Bonafide work of **S.BALA SURYA (1904005), T.KAVI (1904019), K.PRAVEEN (1904035), ROSHAN TARIQ (1904041), and A.SANKAR KALIDAS (1904043)** who carried out **19ECI01 Professional Readiness for Innovation, Employability and Entrepreneurship** project offered by IBM and Anna University, Chennai.

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PROJECT CALENDAR

Phase	Phase Description	Week	Dates	Activity Details
1	Preparation Phase (Pre- requisites, Registrations, Environment Set-up, etc.)	2	22 - 27 Aug 2022	Creation GitHub account & collaborate with Project repository in project workspace
2	Ideation Phase (Literature Survey, Empathize, Defining Problem Statement, Ideation)	2	29 Aug – 3rd Sept 2022	Literature survey (Aim, objective, problem statement and need for the project)
		3	5 - 10th Sept 2022	Preparing Empathy Map Canvas to capture the user Pains & Gains
		4	12 - 17 Sept 2022	Listing of the ideas using brainstorming session
3	Project Design Phase -I (Proposed Solution, Problem- Solution Fit, Solution Architecture)	5	19 - 24 Sept 2022	Preparing the proposed solution document
		6	26 Sept - 01 Oct 2022	Preparing problem - solution fit document & Solution Architecture
4	Project Design Phase -II (Requirement Analysis, Customer Journey, Data Flow Diagrams, Technology Architecture)	7	3 - 8 Oct 2022	Preparing the customer journey maps
		8	10 - 15 Oct 2022	Preparing the Functional Requirement Document & Data- Flow Diagrams and Technology Architecture
5	Project Planning Phase (Milestones & Tasks, Sprint Schedules)	9	17 - 22 Oct 2022	Preparing Milestone & Activity List, Sprint Delivery Plan
6	Project Development Phase (Coding& Solutioning, acceptance Testing, Performance Testing)	10	24 - 29 Oct 2022	Preparing Project Development - Delivery of Sprint-1
		11	31 Oct - 5 Nov 2022	Preparing Project Development - Delivery of Sprint-2
		12	7 - 12 Nov 2022	Preparing Project Development - Delivery of Sprint-3
		13	14 - 19 Nov 2022	Preparing Project Development - Delivery of Sprint-4

ABSTRACT

Most old people have multiple medicines to take to overcome their illnesses. However, they often forget to take their prescribed medicine on time, making it difficult for the caretakers to keep tabs on the patients and diagnose them in the right manner. Such situations may sometimes escalate to life-threatening ones. Medication reminders serve as a good way to stay on track and uphold an appropriate schedule. Ensuring that you or your loved one is properly taking their medications can help to avoid unnecessary risk and serious illness.

To avoid this, we have built an application (both web and mobile application) which enables the user to set reminders with medicine time and dosage levels and the same features have been incorporated into the mobile app for the convenience of the user. The mobile app alerts the user with the voice command and displays the name of the medicine to be intaken on that particular time. The web and mobile application displays all their medicine data (medicine name, date and time) and it also allows the user to add or delete the data they have entered. Both the web and mobile applications were tested for various users and test cases and it worked entirely fine for the test cases.

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ABBREVIATION	EXPANSION
IOT	Internet of Things
MySQL	My Structured Query Language
PHP	Hypertext Preprocessor
HTML	Hypertext Markup Language
API	Application Programming Interface
RTC	Real Time Clock
LED	Light Emitting Diode
Wi-Fi	Wireless Fidelity
DFD	Data Flow Diagram
OTP	One Time Password
NFR	Non Functional Requirements
UAT	User Acceptance Testing
DB	Decibel

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