**PROJECT PLAN DOCUMENT**

**(Due: 31st January, 2024)**

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| Project number | ***Project-4 (Team-30)*** |
| Project Title | ***Pulse Point Health App*** |
| Document | Project Plan |
| Creation date | ***31st January 2024 - Wednesday*** |
| Created By | ***Susheel Krishna (Document Creation)***  ***Deekshitha (Idea, Analysis)***  ***Krishna Koushik (Info Gathering, Analysis)***  ***Swaroop (Gathering Resource)***  ***Pratyush (Communication With Client)*** |
| Client | ***Vedika Parwal - VP Next Tech Innovations*** |

# Brief problem statement

# The main Idea of the Project is to create a software to collect Medical Data of an individual from smart watches(Android or iOS) and process the collected data. The project will use a smartwatch to track a variety of health metrics in real time. This data will be used to generate insights into the user's health. The project aim for continuous data transfer. Also fetches the user's medical history and store it. The Data stored is used to predict diagnostics. The project will take assist of some machine Learning Algorithms to meet this functionality. An emergency health card is used to view critical health details and help healthcare professionals to take proper precautions. The project also aims to track and monitor the chronic conditions and send alerts to healthcare professionals and other selected contacts. It aims to create a centralized repository for health and wellness data. Some algorithms are used to measure any deviations from regular behavior or health conditions. Data security is assured by allowing only some data to be sent in smartwatch settings.

# Team Members

# Deekshitha – Frontend, UI and UX designer

Susheel Krishna – Cloud Computing, Documentation

Swaroop – Backend, Pilot Programming

Krishna Koushik – frameworks, Tester and Debugger

Pratyush Jena – Machine Learning, Data Analysis

# Team Communication

# There are three types of meets, where the team gathers to communicate and update regarding project.

**Client Meets** : All the teammates will meet to discuss the progress of the project probably half an hour before the client meet is scheduled. Here we discuss what all questions to ask and inform the client about. And we again discuss for some time after the meet regarding Client’s Thoughts.

**Team Meets** : These are formal team meets held twice a week. Here we discuss our progress and future plans and division of labor. All team members are usually involved. We will have team meets in Workspace.

**Informal Collaborations** : These are informal meets by team members, and happen usually when one or two team members feel the need to collaborate or take help from each other. They may vary anywhere from Once in a day to once in week. If we get doubts regarding the Technologies or functionalities, we will approach TA according to their convenience.

# Development Environment

# Google Cloud Console : google cloud is used to store, compute and run programs in google servers. We need this to access APIs globally. we will gather the API data and compute or Analyze it in console.

**Google Fit API :** it is an API which is helpful to retrieve data (access data) from google fit app or from smart watches. We will be dealing with this API to access health related data. (Pulse, Heart Rate …etc.)

**Pilot Software :** Pilot testing is the type of software testing where a group of users uses the software in totality before the final launch or deployment of the software. This testing verifies a component of the system or the entire system under a real-time operating condition. The purpose of the pilot testing is to evaluate the feasibility, time, cost, risk, and performance of a project.

# Milestone Schedule

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| --- | --- | --- | --- |
| **Milestone** | **Due Date** | **Release** | **Deliverable?** |
| Create draft requirements | 7/02/24 | R1 | Yes |
| SRS document(Version 1) | 18/2/24 | R1 | Yes |
| Design | 20/2/24 | R1 | Yes |
| SRS document(Version 2) | 21/2/24 | R1 | Yes |
| Improved Design (According to Client’s Feedback) | 22/2/24 | R1 | Yes |
| Implementation of Modules(like fetching health data for patients and healthcare professionals,Graph data retrieval,data storing, analysing data) | 27/2/24 | R1 | Yes |
| Unit testing | 5/3/24 | R1 | Yes |
| Integration of Tested Modules | 10/3/24 | R1 | Yes |
| System Testing | 20/3/24 | R1 | Yes |
| Release 1 | 22/3/24 | R1 | Yes |
| Improvements | 01/4/24 | R2 | Yes |
| Testing | 15/4/24 | R2 | Yes |
| Release 2 ( Final Release ) | 25/4/24 | R2 | Yes |