Project Synopsis/Project Concept Document
(Due: 25th January)

Project number	*30*
Project Title	*PulsePoint Health App*
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Description

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 behaviour or health conditions. Data security is assured by allowing only some data to be sent in smartwatch settings.

Profile of Users

1.Patient-

A Patient is a person who seeks avail of the service provided by the PulsePoint Health App and getting access to health insights generated by the application.

A Patient need not be averse with different terminologies related to healthcare.

2.Healthcare professional-

Healthcare professional needs to be averse with different terminologies related to healthcare and should be able to explain it to the patient in simpler terms.

Healthcare professional needs to be averse with using the Application and drawing insights from different data visualization techniques regarding the patient's health.

3.Admin-

Admin doesn't have to be averse with the health insights generated by the application but has to be averse with the security and maintenance aspects of the application.

Usage Model and Diagrams (if any)

1.Patient-

Patient can give details such as height,weight,etc which can be used to derive insights and generate a meaningful Emergency Information Card. Patient has to wear a smartwatch and different health parameters such as Heart rate of the user, BP and so on can be captured and used for analysis. Patient can get meaningful heath insights from the application and also get access to his/her medical history.

Finally the patient can get access to his/her Emergency Information Card which can be used for future consultations with healthcare professionals who have access to the patient's Emergency Information card.

2.Healthcare professional-

To ensure security and privacy of the patient's health data only authorized healthcare providers can login into the application. The healthcare professional can do remote patient monitoring by use of the dashboard in the application. The healthcare professional can also send alerts to the patient in case of emergency. Healthcare professional can track the patient's health by means of this application in a comfortable manner using graphical means and also check the patient's medical history and timeline representation of health events.

3.Admin-

Admin has to make sure the security of the application should not be compromised at any point and every patient can only view his/her data only and only doctors with authorization can only view the dashboard of a patient. Admin also has to make sure the application doesn't crash at any point of time since the usage of the application can be critical at times.

Link to Status Tracker:

https://1drv.ms/x/s!An4kQKWrkMp6rCyg_oDeRaaLMFoN?e=gzIvwD