

Feasibility Report

CS#02

August 28, 2017

1 Introduction

Feasibility Report is basically a document prepared after thorough study of the resources and materials required for the project resulting in an end product which tells us whether the project is feasible or not.

Following factors were taken into consideration while finding the feasibility of previously thought as well as the chosen idea for project-

1. Categories -

- (a) Technical
- (b) Economical
- (c) Legal
- (d) Environmental
- (e) Business

2. Reasons taken into consideration-

- (a) Availabilty of resources.
- (b) Estimation of cost for Development.
- (c) Benefit to the stake holders.
- (d) Skill set required for the development.
- (e) Maintenance after its development.
- (f) If the requirements of the stake holders are being satisfied or not.
- (g) If previously some software such as this exists. If so can it be improved or not.

2 Ideas rejected/Non feasible ideas

2.1 Home Doctor

2.1.1 Description

The android app collects data such as heartbeat rate, respiration rate, pulse, body temperature, body state etc via android wear and then sends it to the

local as well as the doctors connected to this app. Doctors after receiving the required information can send all the information related to the user's internal body to the doctor without going to have to visit him/her.

2.1.2 Benefits

The idea had the following benefits-

1. Encouraged people to take advice from doctors.
2. Removed the need to visit a doctor
3. Brought the entire system in our hands.

2.1.3 Reasons for rejecting the project

The idea was indeed a great one but had the following requirements which could not be satisfied which ended it being rejected- 1) Wide network of Doctors to be linked to the app could not be created easily. 2) Requirement of hardware such as android wear which was rather too expensive. 3) Such an app with a large database already exists and improvising on it does not seem to be feasible.

- Technical - As the project requires use of hardware and none of our team member has worked on hardware before.
- Economic - The cost of the hardware(sensors) required for this project is very high so economically the idea was not feasible.

2.2 OCR Model

2.2.1 Description

Optical character recognizer(OCR) takes the input as the image and gives text as the output. As it helps the person to extract the text from anything the project idea was very efficient and effective.

2.2.2 Benefits

The project had quite many benefits-

1. The model could help easy conversion of text on any image to text instantly hence making the process of creating heavy documents by analysing images a very simple one.
2. The model if used in android could enhance the camera abilities of the smartphone, directly importing the text from images clicked or seen on posters to be used for creating documents and mails by directly importing the text from them.

2.2.3 Reasons for rejecting the project

- Technical - In the current scenario Google OCR exist and is pretty well advanced and it would require plenty of time and effort and after considering all the skills of the team members we estimated that the project cannot be completed in the given span of time.
- Legal - The data to be used will mostly be the data incorporated by Google which is legalised under specific norms. Plus the project is not open source,only a part of it is available.

3 Feasible Idea

3.1 Unravel

3.1.1 Description

Unravel is a common platform for every software developer who keep searching on the internet for topics and code but ends up winding with almost nothing. Unravel provides a common platform wherein the user is able to find videos related to specific topics of Computer Science domain along with their given practical applications in real life in form of code. This software brings together organised and sorted content from Youtube and Proper course wise Project codes from github together at one common platform free of cost. Hence the software saves a lot of precious time and money which could otherwise would have been wasted.

3.1.2 Project Scope

- The scope of project is to create a workspace where learning materials like videos and projects are incorporated at one place.
- Can be pretty helpful in saving the time we waste on searching materials on different websites.

3.1.3 Technical

The following requirements are required as per the technical perspective-

1. Skill set Required-
 - (a) XML DEVELOPMENT
 - (b) CSS AND JAVASCRIPT
 - (c) JAVASCRIPT LIBRARIES
 - (d) ANDROID FRAMEWORKS
 - (e) SERVER DEPLOYMENT
 - (f) JAVA NETWORKING

(g) PYTHON LIBRARIES

2. Platforms required-

- (a) Android Studio
- (b) Sublime Text
- (c) Pycharm
- (d) Youtube API
- (e) Github API

3.1.4 Economic

The project is economically feasible, there is no requirement of money for making anything in the project.

3.1.5 Legal

No legal framework is required for our project since our software isn't being used for commercial purposes.

3.1.6 Environmemntal

No environmental issues conflict while developing our software.

3.1.7 Business

No commercial purposes are being utilised from this software so no business feasibility requirement here.