

# **Indian Institute of Information Technology Vadodara**

Software Engineering  
IT - 304  
Team - 04 ( DeepBench )

## **Feasibility Report**

### **Team Members**

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## **Past Project Ideas:**

We have discussed ideas based on emerging fields which involves the basic knowledge of Artificial Intelligence and Deep Learning. The Project Ideas include topics like Emotion Detection based on Mood of person, Notes and Text Summarization.

## **Rejection of Previous Project Ideas**

As most of the topics discussed involves doing more of research and less of implementation. It would be feasible if more time was given. Notes and Text Summarization were implemented by students of previous batch. Hence there was no point trying to modify the existing solution.

## **Purpose**

The main purpose of feasibility study is to consider each and every possible factor associated with the project and determine whether the investment of time and other resources yield desired results. It also includes determining the investments, manpower and costs incurred on this project.

## **Project Idea**

To create a mobile application using Android Platform which will reduce the amount of efforts and time wasted in searching interested students for various activities.

## **Feasibility Study**

Every project is feasible provided given unlimited resources and infinite time. But, this is not the case while working on projects. However, it is both necessary and prudent to evaluate the feasibility of a project at earliest possible time. Wastage of manpower and financial resources and untold professional embarrassment can be avoided if an ill-conceived system is recognized early in the development phase.

## **Economic Feasibility**

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. The project is economically feasible as it only requires a mobile phone with an open source Android operating system.

## **Technical Feasibility**

Our application is based on Android Platform, which is a stable and well established in the current era. Project is technically feasible as all of our team members have prior experience in JAVA and

Object Oriented Programming, also, few of the team members are familiar with Android Development ( IDEs like Eclipse / Android Studio ).

One new technology which we are going to use is Firebase (for real time Database). The purpose of using Firebase as it is user friendly and also feasible to learn within our domain.

## **Operational Feasibility**

Operational Feasibility relates to whether the participants will be able to handle new system.

Training of 2 days will be sufficient to get basic knowledge of Android. Every material related to Android is available online.

## **System Requirements**

### **Hardware Requirements**

Processor : Intel i3 or above

Memory : 1GB(RAM), 500GB(HDD)

### **Software Requirements**

Operating System : Linux/Mac/Windows(7 or above)

Platform: Android SDK

IDE : Android Studio

Database : Sqlite/Firebase

Web Technologies: Java/Kotlin, XML

## **Risk Factors**

The following risk factors are identified:

1. Misunderstanding the requirements.
2. Lack of adequate user involvement.
3. Failure to manage end user expectations.
4. Lack of required knowledge/skills in the project personnel.
5. Introduction of new technology.
6. Insufficient/inappropriate staffing.

