**SOFTWARE ENGINEERING**

**(IT-314)**

**“BLOOD BANK APP”**

FEASIBILITY REPORT OF REJECTED IDEA

**Team no: 14**

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**Version History**

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**Table of Contents**

1. Abstract …………………………………………………………………………………..4
2. Product Description ……………………..……………………………………………......4
3. Technical Requirements ……….………………………………………………………....4
4. Product MarketPlace ………………………………………………………….………….4
5. Feasibility Study ………………………………………………………………………....5

5.1 Operational Feasibility………………………………………………………………..5

5.2 Technical Feasibility………………………………………………………………….5

5.3 Legal Feasibility……………………………………………………………………...5

5.4 Economic Feasibility………………………………………………………………....5

1. Feasibility Study Result ……………………………………………………………….....6
2. **Abstract**

Purpose of this project is to keep records of the people who will donate blood at required time. Requirement of blood is too often in cases of surgery and accidents so this is an attempt to ease the process as donors can be accessed quickly.

1. **Product Description**

In this app, we want to have following things:

* It will contain all the information of the user like name, contact, and blood group. User is asked to fill this information.
* It will also provide information of all users to all those in need of assistance.
* It will also provide the time bar to all users so that they can know they are fit for donating blood again.
* Users can be arranged according to blood group.

This app could be very useful. If there is any big surgery then the blood bank could directly ask the user to donate the blood. If there is any accident and blood is required in emergencies then by knowing the blood group they can sort in this app and find the donor. In this app they can sort according to blood group. Further they will be sorted according to nearest available user. It will show users who are fit to donate blood first. It will also prompt a message to the donor. Then he can respond whether he/she will be able to donate or not.

1. **Technical Requirements**

Following things are possibly required:

* Linux/Windows (platform)
* Android SDK and Android studio/eclipse.
* Google maps services from android SDK.
* Language:
* Java.
* XML.

1. **Product Marketplace**

This is the app used by any user using android phone. It could be very helpful in emergencies so it can be used by blood bank. Blood banks will have to manage the whole database of this app. Once this app is created for particular place then it can expanded.

1. **Feasibility Study**

We decided not to proceed further with this project idea because of the following reasons:

**5.1 Operational Feasibility**

This app is operationally feasible because it will help patients in emergencies. Also it will help blood bank to keep stock of blood. This app will be also easy to operate and anyone can use it. But there may be situations when donor may not be available due to many reasons.

**5.2 Technical Feasibility**

This app is possible to implement. It is required to learn some of advanced android coding and concepts like maintaining google map locations of donors etc. But within the given time frame and no previous experience it does not seem feasible.

**5.3 Legal Feasibility**

There is no legal issue with this app as it can be used by local public. But when this app is expanded and some big organization has accepted it, all types of information about the user with proper documents will be required.

**5.4 Economic Feasibility**

* As per hardware requirement, it will not require cost much. Client will need hard disk to store the data. Also he needs to manage a database of users, and need to update daily. They need to hire someone who can look after it.
* Maintenance of this app is required so that it is bug free.
* Once this app is successful in particular city, if the client wants to expand this app then updating of the application is required. But this may lead to increased cost.

1. **Feasibility Study Result**

As we have seen that this app is operationally feasible and it could be really helpful to people. But when we see the technical feasibility we do not have enough time and do not have any experience of making such app. Also when we see the economic aspects, client just needs to keep database and keep updating the database. Also when there is updating of app it will increase work and cost for client. As it is like free service it is hard to find such clients (blood banks). Legal feasibility is not of much concern as it will be seen if app is expanded.

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| --- | --- | --- |
| **Feasibility type** | **Feasible (Yes/No)** | **Level of feasibility** |
| Operational Feasibility | Yes | Medium |
| Technical Feasibility | No | Low |
| Legal Feasibility | Yes | Medium |
| Economic Feasibility | No | Low |