**PURBANCHAL UNIVERSITY**

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**DEPARTMENT OF COMPUTER ENGINEERING**

**KHWOPA ENGINEERING COLLEGE  
LIBALI-8, BHAKTAPUR**

A Project Proposal on

**E-Blood Bank**

A Proposal submitted for the partial fulfillment of requirements for the degree of Bachelor of Engineering in Computer Engineering (Eighth Semester)

**Submitted By**

Dipesh Deuja (730314)

Kareena Bade (730318)

Sanam Suwal (730334)

Sujata Shrestha (730344)

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**Table of Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Chapter** | | **Title** | **Page** |
|  | |  | **i** |
|  | | Title Page | ii |
|  | | Approval Letter  Acknowledgements | iii  iv |
|  | | Table of Contents | v |
|  | | List of Figures | … |
|  | | List of Tables | … |
|  | | List of Abbreviation | … |
|  | | List of Symbols | …. |
|  | |  |  |
| 1 | | Introduction 1-2  1.1 Background  1.2 Motivation  1.3 Statement Of Problems  1.4 Objectives  1.5 Scope & Limitation | 1  1  2  …  …  .. |
|  | |  |  |
| 2 | | Literature Review  2.1 …………………….  2.2 …………………….  2.3 …………………….  2.3 …………………….  2.4 …………………..  2.5 Related Works |  |
|  | |  |  |
| 3 | | Project Management  3.1 Team Members  3.2 Feasibility Study  3.3 Work break down Structure |  |
| 4 | | Methodology  4.1 Background  4.2 Generic Model  4.2 Algorithm  4.3 Flowchart  4.4 Performance Parameters  4.6 Tools & Platform |  |
| 5 | | Expected Result |  |
|  |
|  | | References |  |
|  | | APPENDIX A |  |
|  | | APPENDIX B |  |

**ABSTRACT**

We have seen and gone through the many cases such as accidents where the urgency of specific blood type and the unavailability of that blood type have been the major problem. With comparison to the ratio of requirement of the blood, very less amount of people donate the blood that gives rise to the shortage of blood. Usually, Blood banks suffer frequent shortage of blood and hence, advertisements are frequently seen on social networks urging healthy individuals to donate blood for patients who urgently require blood transfusion. So in order to reduce this problem in case of emergencies, we have proposed this project titled “E-Blood Bank” which is an Android application that allows the users to search donors of specific blood group based on their location, in a short period of time. This application will not only display the list of donors but also facilitated with tracking the location of the nearby donors. In order to donate blood through the app, one has to register himself by providing all the required details. These details must be valid and true so that they can be tracked at the time of emergency. When all the information is accepted by the Admin, the donor will be further to the list of registered donors. GPS module is included in order to locate the donors. Thus, only registered members, who want to donate blood, are able to access the service.

Key Words: *E-Blood Bank, GPS, Android Application*

**CHAPTER 1**

**INTRDOUCTION**

**1.1 Background**

// Write down background information of the proposed project and introduce the measure functionalities and areas of the project. Citation required here.

**1.2 Motivation**

In this era of modernity, we have found that the greatest predicament that exists is the cost of living and saving lives has become higher, and unfortunately life itself has lost its worth to us. Similarly, Manual systems and organizing blood donation campaigns are time consuming, laborious, and costly as compared to Computer Based Information Systems (CBIS). Organizers need to go to the nearest blood bank to inform and get necessary things to organize blood donation campaigns which is more time consuming and difficult task. Hence in order to convert this laborious and time consuming task to easy and user friendly one, we thought of this system which is an android application that allows the users to search donors of specific blood group based on their location, in a short period of time.

**1.3 Statement of Problems**

* **Relying on a single method of Geolocation:** It should go without saying that the more methods an app uses to find locations, the more precise it’ll be. Therefore, we should use multiple methods to make sure that our app does not rely on only one. For example, if an app relies on solely Wi-Fi for geo location, this would exclude a large portion of users who might be interested in your app. Despite Wi-Fi being one of the most precise means of assessing geo location, it is not always as immediately available as mobile network. Our app should employ several methods to collect & narrow data on geo location.
* **Using Geolocation where it’s not necessary:** It’s must to track user location to meet an objective of our system. But what if running geo location all the time results our consumer to be suspicious. For sure, this is all about how we bring our system among the users but the privacy must also be seriously considered.
* **Consumers may not be alert about notification:** Our main objective of this system is to notify the user with the demand of his/her blood group. But as many user may be busy on their own work, there may a chance of not being alert about notification from our system. Our system acts as a medium to pass the information between the blood recipient and donor. The main motto to fulfill the actual demand is only possible after donor is notified.
* **Donor may not reach on time if in case of emergency:** Let’s assume our user get notified and is willing to donate. He/she is on the way to the destination. In the case of any emergency, donor should reach on time. To achieve this our system should notify the user residing around nearest location and even after residing, our system must be able to provide each notified user the shortest path to reach the destination. In this process, all the data i.e. traffic volume, construction works and other activities that may create blockade in the way must be provided to the user.
  1. **Objectives**

The objective of this project is:

* To bridge the gap between blood banks, hospitals, donors and needy people using GPS service for locating the hospitals, blood banks & donors to know if the seeker is near to or not.
  1. **Our Approach**

Our approach is to develop an android application that allows the users to search the donors of specific blood group based on their location with the help of GPS module.

**1.6 Scope**

**CHAPTER 2**

**LITERATURE REVIEW**

// This chapter should include the related theories and background for your projects along with previous works in this field.

**CHAPTER 3**

**PROJECT MANAGEMENT**

// Write down group member information, work break down structure or schedule and feasibility analysis for this project

**CHAPTER 4**

**METHODOLOGY**

Methodology should describe how your project will be carried out. So, required system block diagrams or generic models along with flowchart and algorithms should be mentioned here.

Preliminary process modeling, data modeling, database design, forms, reports and interface design can be included within this chapter.

Similarly, if you are going to verify your project or system then write down the different **performance parameters** to be measured .And also mention how testing will be carried out in future.

**CHAPTER 5**

**Expected Outcomes**

Write few lines on expected project outcomes or results.

**REFERENCES**