**Chapter 3**

**Requirement Analysis**

**3.1 Functional Requirements:**

3.1.1 Software Requirements:

1) Platform: Windows XP

 Platform is any hardware used to host an application or service. [9]

2) Language: PHP

A programming language is a [formal](https://en.wikipedia.org/wiki/Formal_language) [computer language](https://en.wikipedia.org/wiki/Computer_language) designed to communicate [instructions](https://en.wikipedia.org/wiki/Machine_instruction) to a [machine](https://en.wikipedia.org/wiki/Machine), particularly a [computer](https://en.wikipedia.org/wiki/Computer). Programming languages can be used to create [programs](https://en.wikipedia.org/wiki/Program_(machine)) to control the behavior of a machine or to express [algorithms](https://en.wikipedia.org/wiki/Algorithm).

3) Mobile Client: Android

Mobile server is a computer system([computer hardware](https://en.wikipedia.org/wiki/Computer_hardware) and [operating system](https://en.wikipedia.org/wiki/Operating_system)), that responds to requests across a [computer network](https://en.wikipedia.org/wiki/Computer_network) to provide, or help to provide, a [network service](https://en.wikipedia.org/wiki/Network_service), while being easily portable in a [laptop](https://en.wikipedia.org/wiki/Laptop) form factor.

4) IDE/Tool: Eclipse IDE

An integrated development environment (IDE) is a [software application](https://en.wikipedia.org/wiki/Application_software) that provides comprehensive facilities to [computer programmers](https://en.wikipedia.org/wiki/Computer_programmer) for [software development](https://en.wikipedia.org/wiki/Software_development).

3.1.2 Hardware Requirements:

1) Processor: Pentium IV

A processor is the logic circuitry that responds to and processes the basic [instructions](http://whatis.techtarget.com/definition/instruction) that drive a computer.

2) RAM: 64 MB

Random-access memory (RAM) is a form of [computer data storage](https://en.wikipedia.org/wiki/Computer_data_storage) which stores frequently used program instructions to increase the general speed of a system.

3) Storage: 20 GB

Computer data storage, often called storage or memory, is a technology consisting of [computer](https://en.wikipedia.org/wiki/Computer) components and [recording media](https://en.wikipedia.org/wiki/Data_storage_device) used to retain digital [data](https://en.wikipedia.org/wiki/Data_(computing)). It is a core function and fundamental component of computers.[6]

4) Mobile Phone: Android Phone

A telephone with access to a cellular radio system so it can be used over a wide area, without a physical connection to a network.

5) Monitor: 15”

A computer monitor or a computer display is an electronic visual display for computers.

**3.2 Non-Functional Requirements:**

1) Person: A person is required for the transaction of blood.

2) Blood Bank: Blood bank update the user information with medical tests also can add new user and new bank.

3) Admin: Admin manages all the transactions between User, Blood Bank and donor which helps

the app to execute effectively.