**CHAPTER 2**

**SYSTEM AND SOFTWARE REQUIREMENTS AND SPECIFICATIONS**

The program works on Desktop PC and is executed using a Python Django Frameworks which interacts with a Postgresql database running on localhost.

**2.1 FUNCTIONAL REQUIREMENTS**

A description of the facility or feature required. Functional requirements deal with what the system should do or provide for users. They include description of the required functions, outlines of associated reports or online queries, and details of data to be held in the system.

**2.1.1 Interface Requirements:**

* Our system will provide user to register their details to our banking service.
* Our system will provide login and logout to their account.
* Our system will provide to deposit money and transfer money.
* Our application will also give some cashback based on some critriea.
* Our system will also provide to check balance and rewards.

**2.2 NON-FUNCTIONAL REQUIREMENTS**:

Non-functional requirements define the overall qualities or attributes of the resulting system.

**2.2.1 Usability:**

Usability is the ease with which a user can learn how to use an online banking system within a just a finger touch

**2.2.2 Security :**

Security requirements are included in a system to ensure:

• All the passwords and data entered by the customer are all encrypted automatically by django frameworks.

• All the transactions processed are safe without any failures.

**2.2.3 Reliability**

Reliability is the ability of a system to perform its required functions under stated conditions for a specific period of time. Constraints on the run-time behavior of the system can be considered under two separate headings:

• Availability: is the system available for service when requested by end-users.

• Failure rate: how often does the system fail to deliver the service as expected by endusers.

**2.2.4. Efficiency**

The comparison of what is actually produced or performed with what can be achieved with the same consumption of Clouds (money, time, labor, etc.). It is an important Factor in Determination of Productivity.

**2.3 SOFTWARE REQUIREMENTS**

**Programming language** : Python Django frameworks,Postgresql

**Operating system** : ANY OS (Recommended: Windows 10 and Linux)

**Application required** : Python 3.7,Python command promnt,PgAdmin and an editor pycharm or atom or visuals studio

**Coding language** : Advanced Python

**2.4 HARDWARE REQUIREMENTS CPU** :

Pentium IV 2.4 GHz or above

Memory (Primary) : 512 MB, 1 GB or above

Hard Disk : 40 GB, 80GB, 160GB or above

Monitor : 15 VGA color