Chapter 3

SYSTEM DESIGN

System Design process partitions the system into subsystems based on the requirements. It establishes overall system architecture and is concerned with identifying various components, specifying relationships among components, specifying software structure, maintaining a record of design decisions and providing a blue print for the implementation phase [6]. Design consists of architecture design and detailed design is concerned with the details of how to package processing modules and how to implement the processing algorithms, data structures and interconnections among modules and data structures.

3.1 ER Diagram

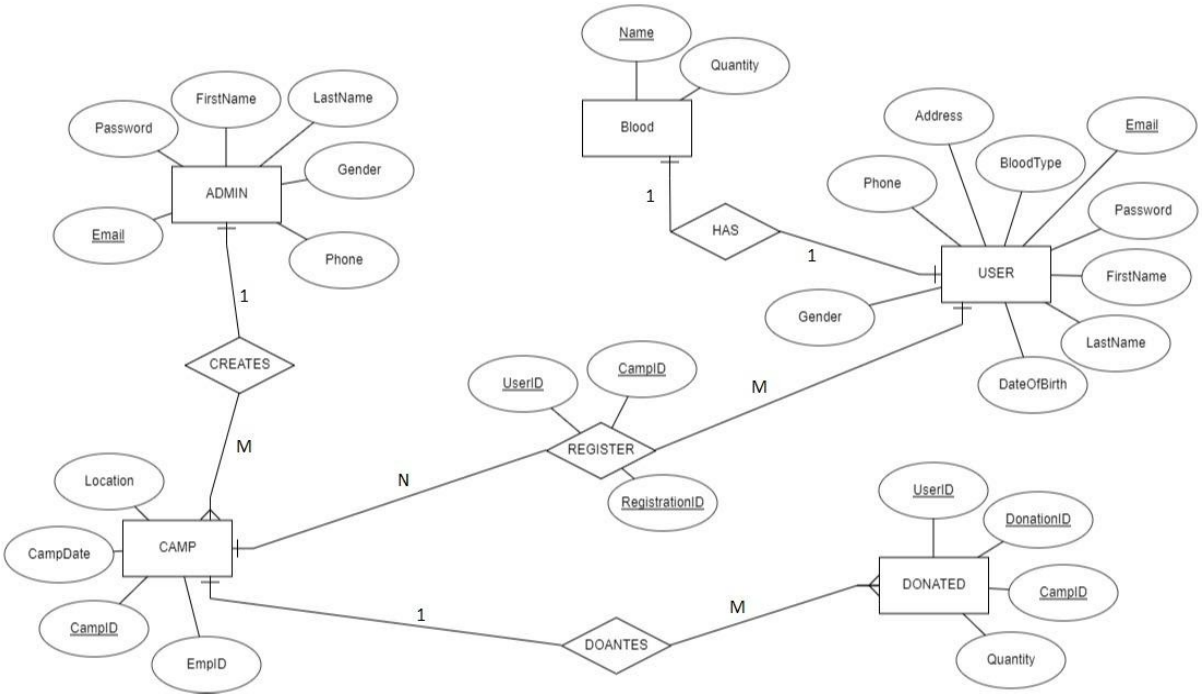

Figure 3.1

3.2 Schema Diagram

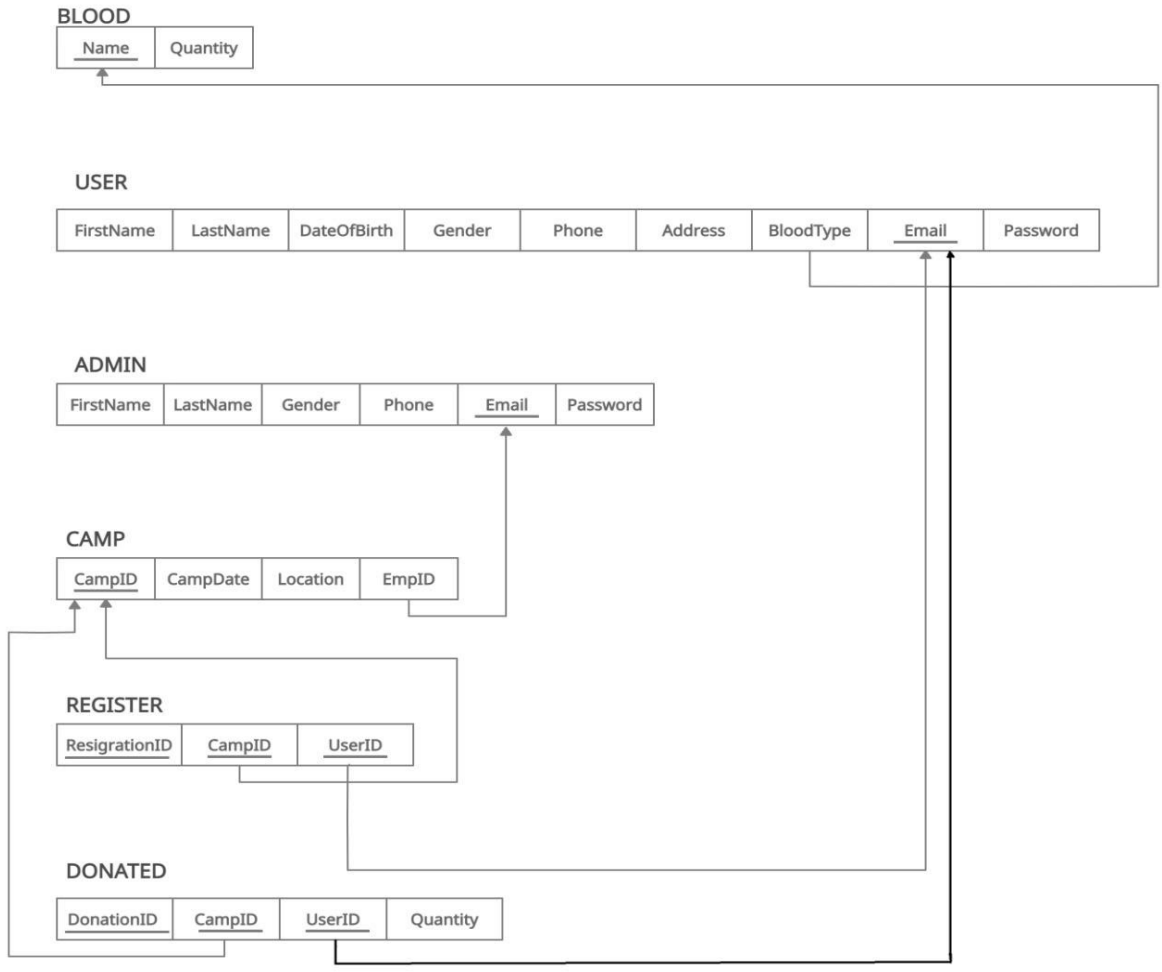

Figure 3.2

3.3 Description of the Tables

1.BLOOD: Stores the blood details

Name: Name of the blood type, Primary key

Quantity: Quantity of the blood in mL

2.USER: Stores the user details

FirstName: First name of the user

Last Name: Last name of the user

Date -Of-Birth: Date of Birth of the user

Gender: Gender of the user

Phone: Phone number of the user

Address: Address of the user

3.4 Block Diagram

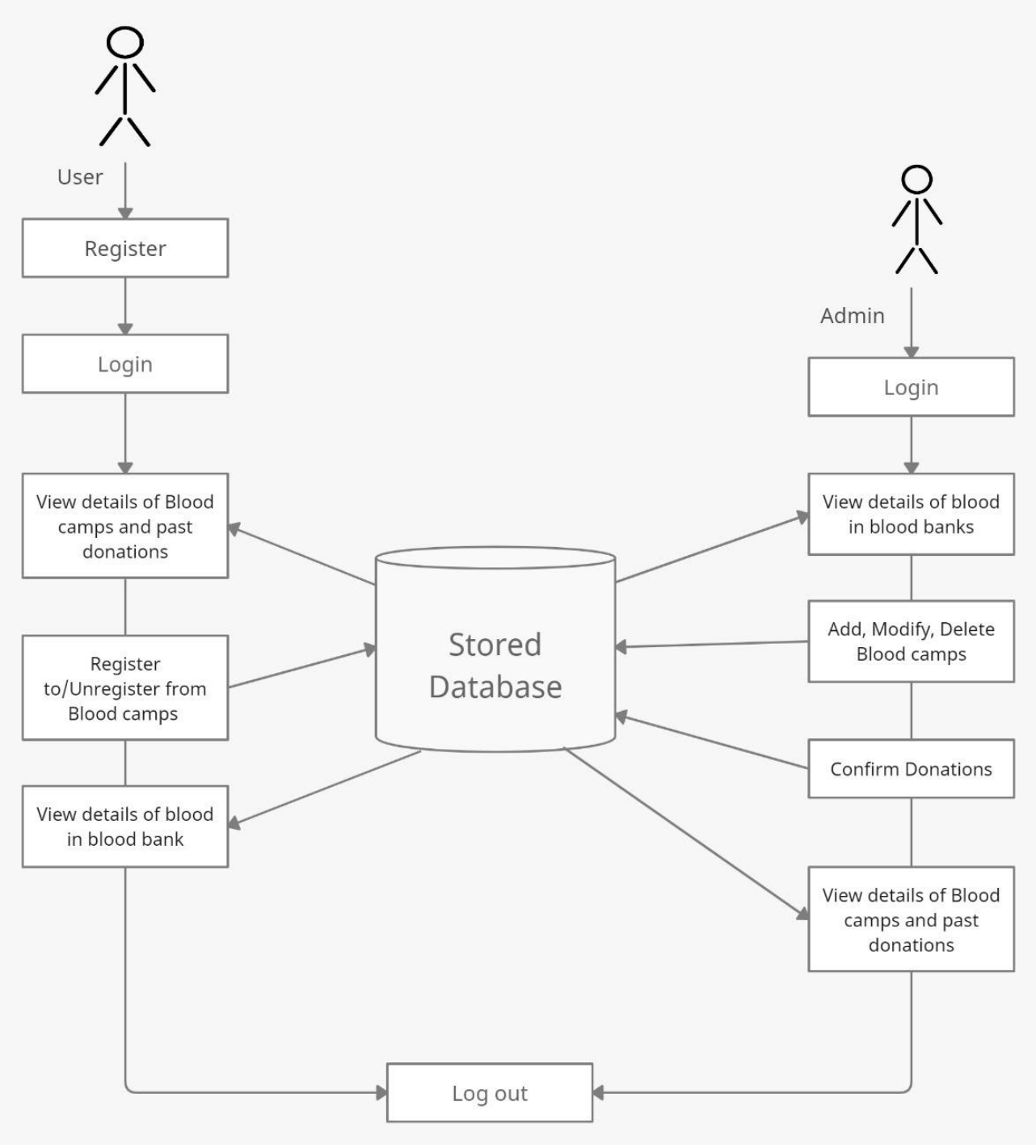

Figure 3.3

3.5 Flowchart

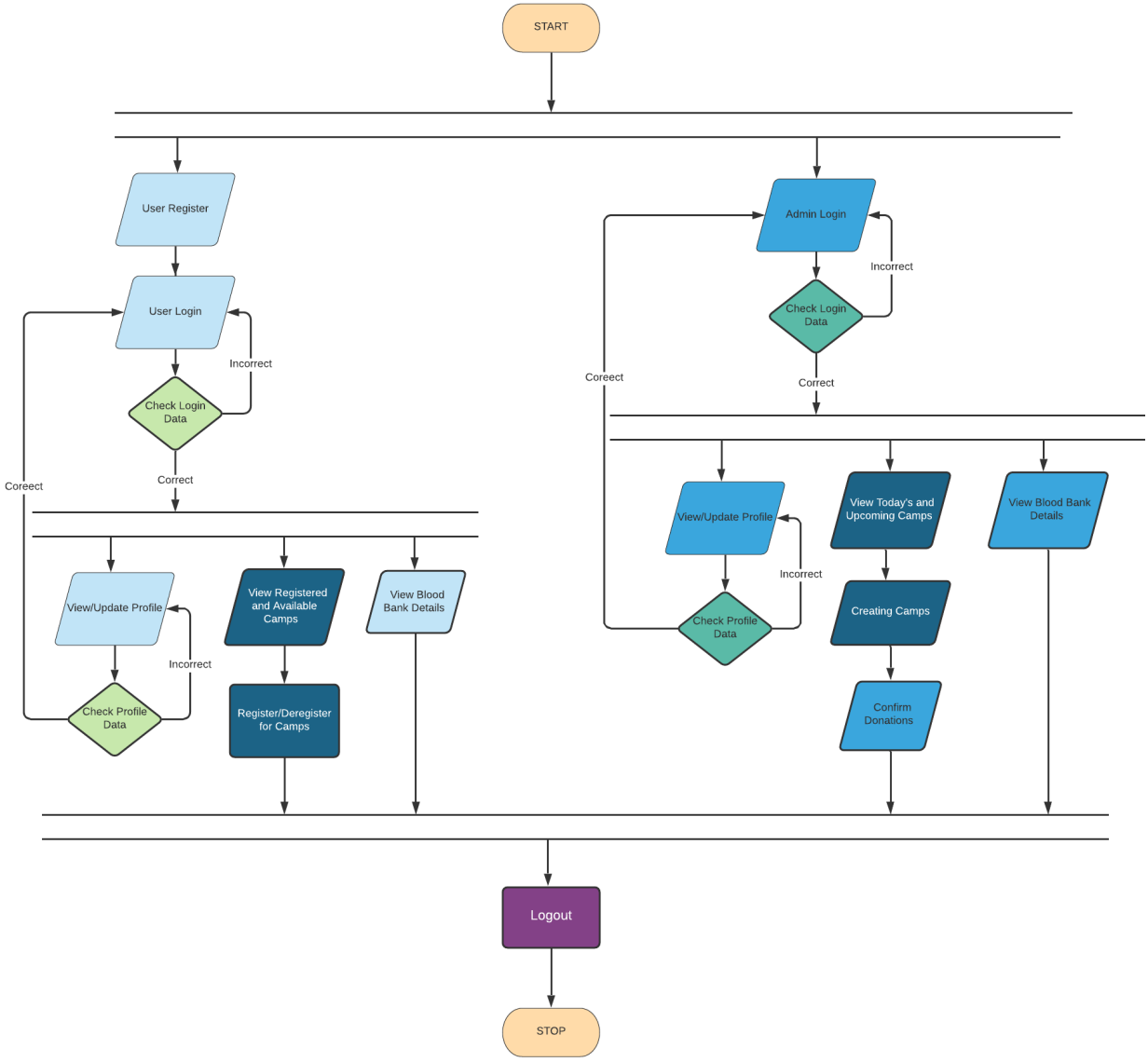

Figure 3.4