

**DEPARTMENT OF COMPUTER SCIENCES**

**Air University**

**Sprint 0**

**“Blood Management System”**

*Name:*

<i>Hamza Ayub</i>	<i>161110</i>
<i>Muhammad Jahangir Khan</i>	<i>161116</i>
<i>Affan Zahid</i>	<i>161128</i>
<i>Muhammad Afnan</i>	<i>161130</i>
<i>Usama Khalid</i>	<i>161140</i>

*Submitted To:*

*Ma'am Aatika Ali*



## 1. Sprint Zero

### 1.1 Purpose of Sprint Zero

Sprint Zero should be used to **create the basic skeleton and plumbing** for the project so that future sprints can be truly add incremental value in an efficient way. It may involve some research spikes. **Minimal design up front** is done in Sprint Zero so that **emergent design** is possible in future sprints. This includes putting together a flexible enough framework so that refactoring is easy

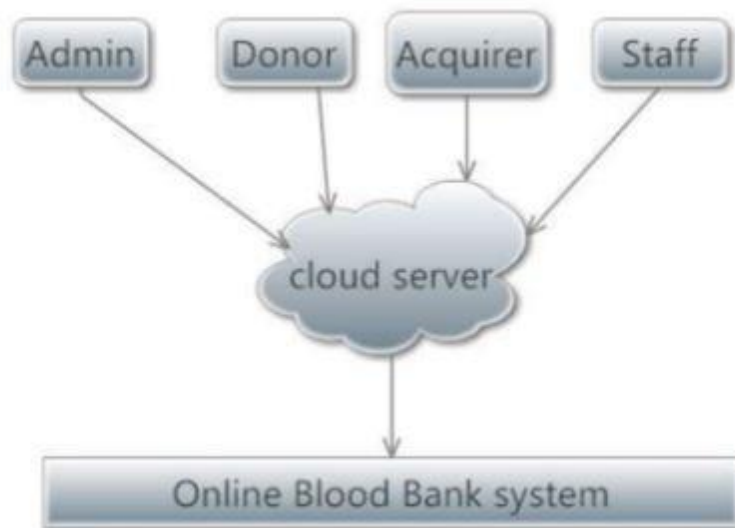
#### a. Sprint Zero for Blood Management System

- Language to be used is C#
- For database requirements SQL SERVER will be used
- A person with how now with computer will be able to use this software
- Database specialist will be required
- Front end will be created by a second member of a team

## b. Software Architecture

Architecture is referred to be a back bone of software. Different components are interlinked with each other

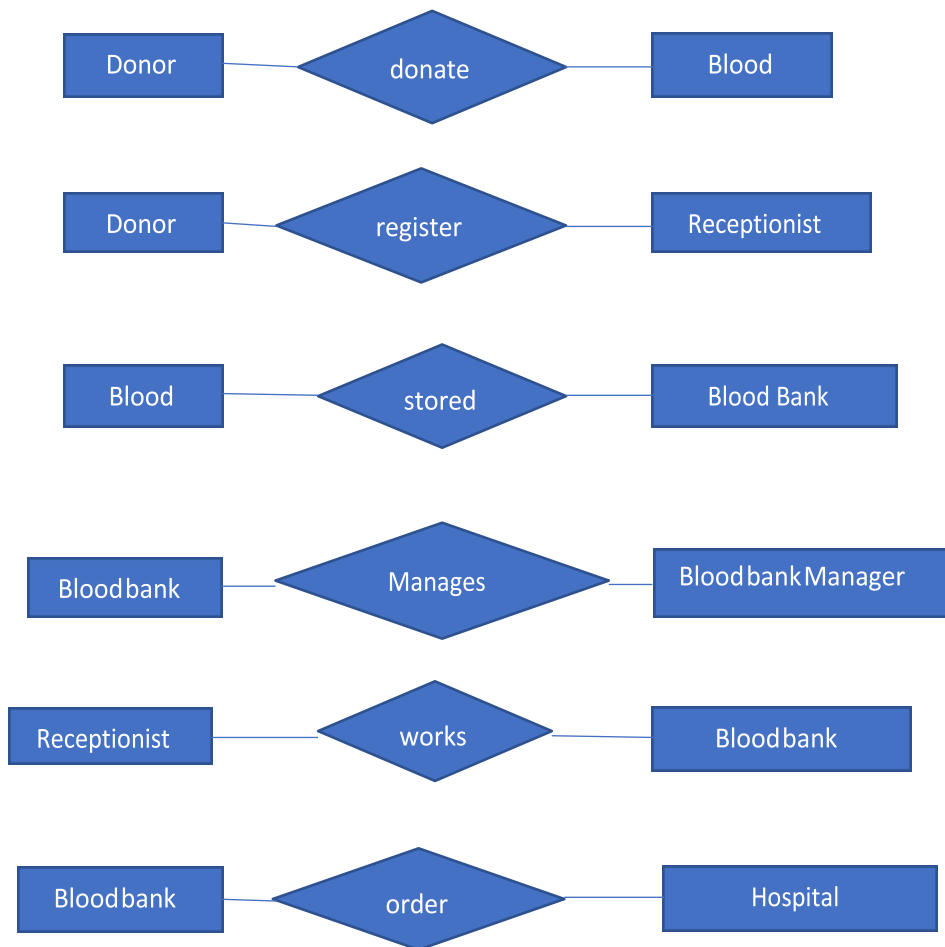
- Admin
- Donor
- Acquirer
- Staff



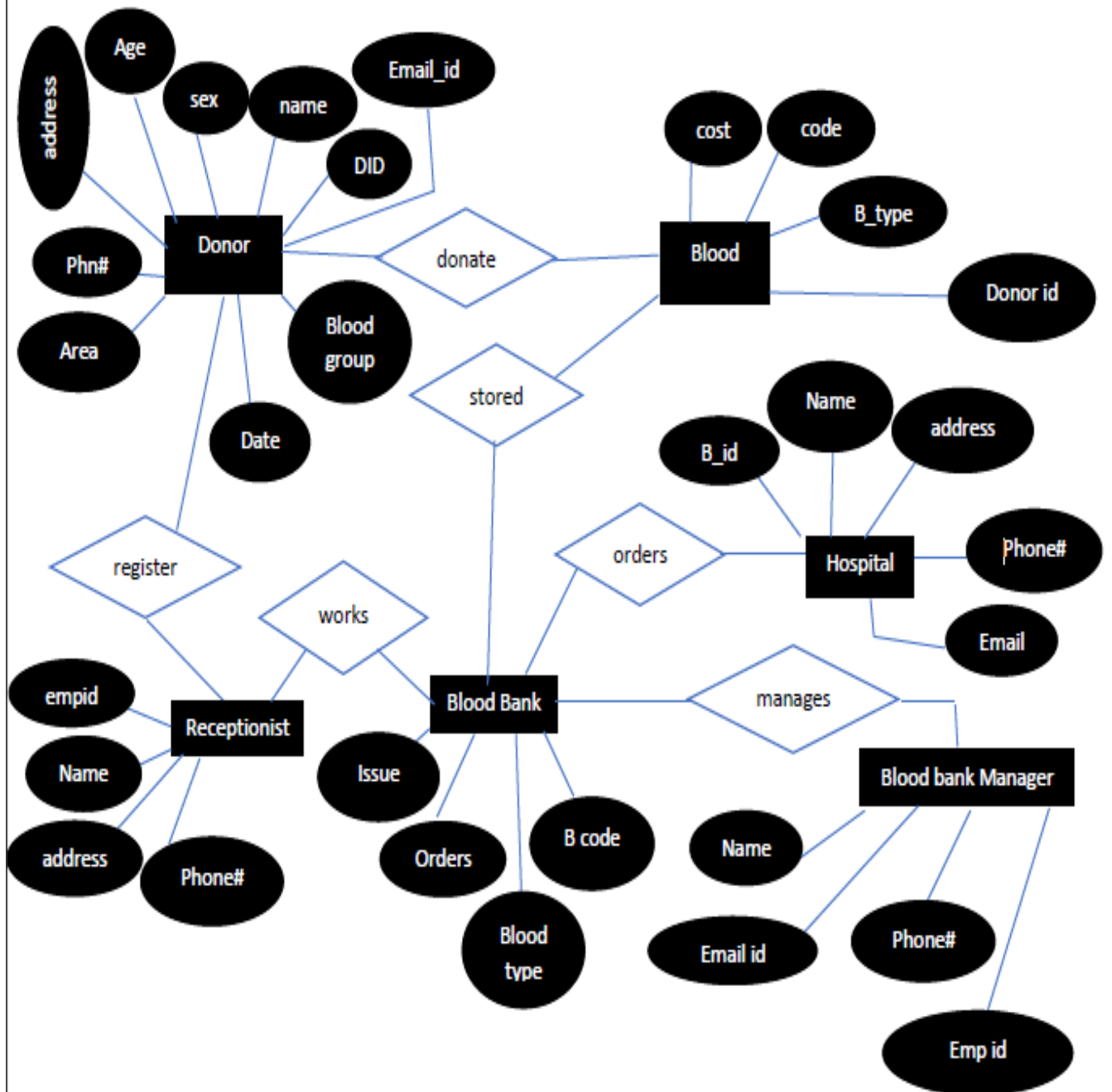
## c. Entities/Objects

- Donor
- Blood
- Blood Bank
- Receptionist
- Blood bank Manager
- Hospital

#### d. Relationships



# e. ER Model of Blood Donation System



f. Data Flow Diagram (Sample)

