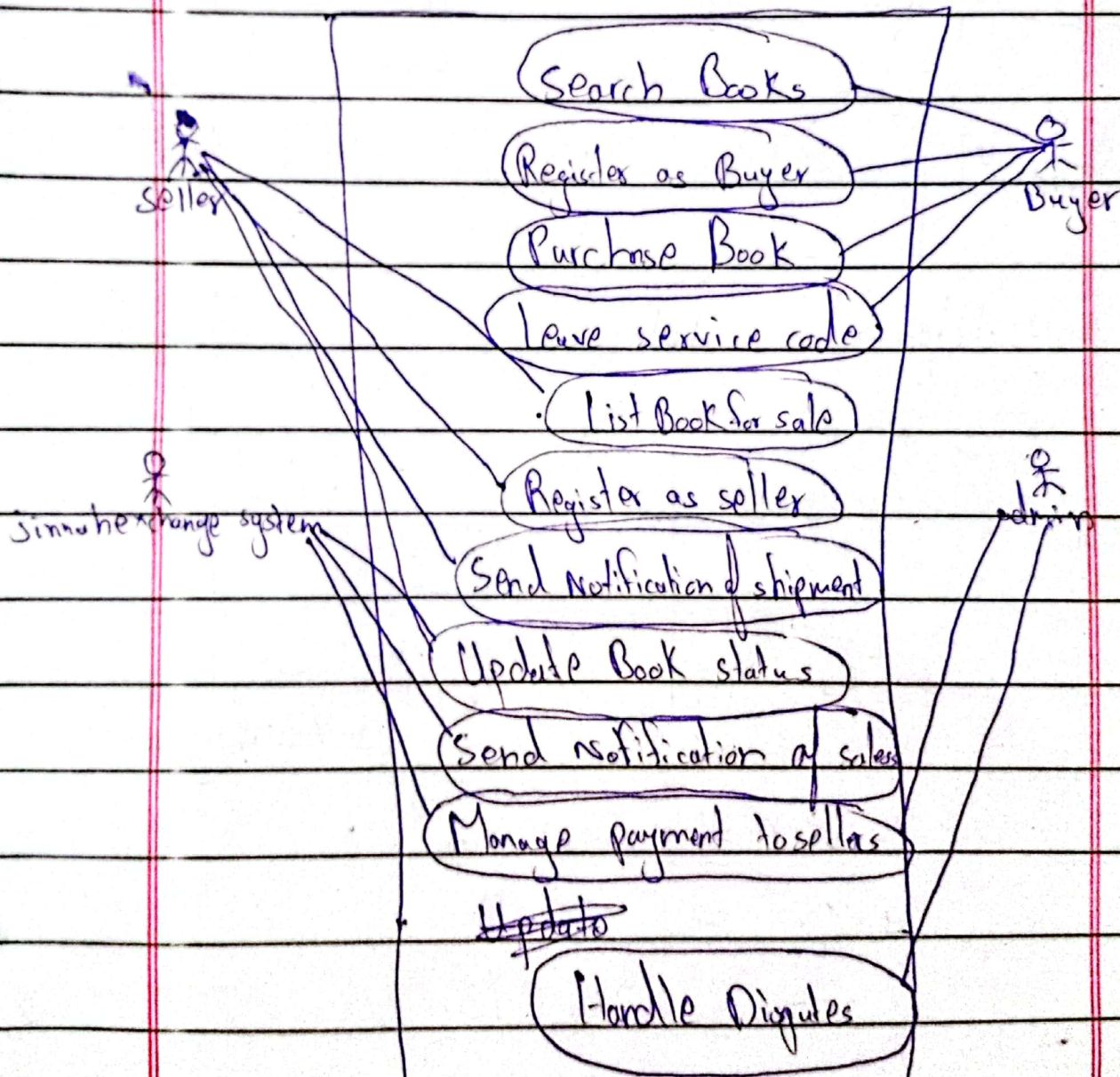


Name: Affan Ahmad

Enrollment: 03-134221-003

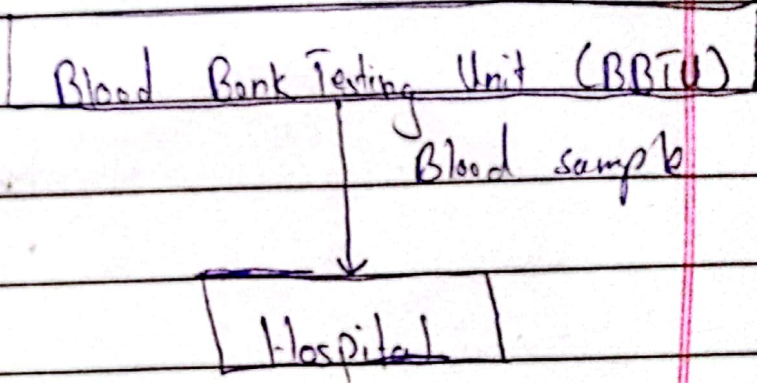
Assignment No. 384

Question No 1.



Question No 2)

0 Level.



1 Level

Blood Bank Testing unit

Receive Blood sample

Test blood type

Test for disease

Assign serial number

store Blood sample

Destroy expired sample

check Hospital Membership

check Blood stock

Generate Notification of Regret

Donat Blood to Hospital

send stock update

Question No 3:

(a) Functional Requirement:

- | | |
|--------------------------|---------------------------------|
| 1) Registration | 6) Notification |
| 2) Availability Tracking | 7) Management Interface |
| 3) Reservation | 8) Cancellation |
| 4) Payment processing | 9) Authentication/Authorization |
| 5) visual Representation | 10) Reporting |

(b) Non - Func

- 1) Performance
- 2) Reliability
- 3) Security
- 4) Usability
- 5) Scalability

c) process Model Justification :

Agile Methodology is ideal due to its iterative approach enabling frequent feedback, adaption to evolving requirements, and faster delivery of working features, fostering collaboration between stakeholders and development teams for successful implementation of the medium-sized system.

Question No 4)

1) Automated Banking Machine System

use interface

- Display options for transactions
- Handle user inputs

conducts transactions

Transaction processing

- validate user inputs
- communicate with core banking system
- update Account balances

initiate transactions

sends transaction data

Hardware Interface

- control physical components
- execute transactions

communication

- Facilitate communication with bank
- Exchange data for transaction

Ensures secure communication

Security

- Ensure transaction security
- Encrypt sensitive data

2) Sea Bays Navigation support system

Data Acquisition

- collect air and water temperature data
- collect wind speed data
- collect location data

provide data for broadcast

Emergency signal

- Generate SOS signals
- Broadcast SOS signals
- initiates SOS signals broadcast

Broadcast Management

- Broadcast real-time data
- prioritise SOS signals

Display real-time data

User interface

- Display real-time data
- Allow engagement of emergency signals

③ Email Filtering System

White list Management

- Manage whitelist of approved senders
- Ensure email sender approval

Blacklist Management

- Manage blacklist of blocked senders
- Automatically block emails

Spam Filtering

- Utilise Spamassassin tool
- Filter incoming Emails
- process emails efficiently

Load Balancing

- Monitor server load
- Distribute processing tasks