BLOOD BANK APPLICATION

Department of MCA, MES College of Engineering, Kuttipuram

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PREPARED BY

SHEGA RAHOOF (MES22MCA20-55)

GUIDED BY

Prof. NOUSHAD C V

ASSISTANT PROFESSOR

MASTER OF COMPUTER APPLICATIONS

MES COLLEGE OF ENGINEERING , KUTTIPPURAM

CONTENTS

- INTRODUCTION
- MODULES
- PRODUCT BACKLOG
- PROJECT PLAN
- SPRINT
- DATA FLOW DIAGRAM
- DEVELOPMENT ENVIRONMENT

INTRODUCTION

In health care services, blood donation is a complex process and consumes time to find some donor who has the compatibility of blood group with the patient. We developed android based blood donation application as blood bank solutions to establish a connection between the requester and donor at anytime and anywhere. The objective of this application is to provide the information about the requested blood and number of available donors around those localities.

The purpose of this study was to develop a blood bank application assist in the management of blood donor records and ease/or control the distribution of blood in various parts of the country basing on the hospital demands. Without quick and timely access to donor records, creating market strategies for blood donation, lobbying and sensitization of blood donors becomes very difficult. The blood bank application offers functionalities to quick access to donor records collected from various parts of the country.

MODULES

1. HOSPITAL

- REGISTER
- LOGIN
- ADD HOSPITAL DETAILS
- SEARCH REQUEST
- ADD REQUEST
- VIEW MY REQUEST
- PROFILE

2. USER

- REGISTER
- LOGIN
- SEARCH BLOOD REQUEST
- ADD REQUEST
- VIEW MY REQUEST
- PROFILE

PRODUCT BACKLOG

ID	PRIORITY	SIZE (Hours)	SPRINT	STATUS	NAME
1	Medium	8	1	Planned	Registration
2	Medium	4		Planned	Login
3	High	10	2	Planned	Table Design
4	High	9		Planned	Coding
5	Medium	4	3	Planned	Testing data
6	High	6		Planned	Output generation

PROJECT PLAN

ID	TASK NAME	START DATE	END DATE	PROJECT HOURS	STATUS
1	Sprint 1	15/09/2023	12/10/2023	13	Planned
2	Sprint 2	13/10/2023	03/11/2023	14	Planned
3	Sprint 3	08/11/2023	30/11/2023	14	Planned

SPRINT PLAN 1

| Backlog Item	Status and Completion date	Original Estimate in hours	Day 1 15/09	Day 2 20/09	Day 3 21/09	Day 4 28/09	Day 5 29/09	Day 6 04/10	Day 7 05/10	Day 8 06/10	Day 9 11/10	Day 10 12/10
Form Design	15/09/2023	2	2	0	0	0	0	0	0	0	0	0
Table Design	28/09/2023	3	0	1	1	1	0	0	0	0	0	0
Coding	06/10/2023	6	0	0	0	0	2	1	1	2	0	0
Testing & Validation	12/10/2023	2	0	0	0	0	0	0	0	0	1	1
Total		13	2	1	1	1	2	1	1	2	1	1

SPRINT PLAN 2

| Backlog Item	Status and Completion date	Original Estimate in hours	Day 1 13/10	Day 2 18/10	Day 3 19/10	Day 4 20/10	Day 5 25/10	Day 6 26/10	Day 7 27/10	Day 8 01/11	Day 9 02/11	Day 10 03/11
Form Design	13/10/2023	2	2	0	0	0	0	0	0	0	0	0
Table Design	18/10/2023	1	0	1	0	0	0	0	0	0	0	0
Coding	01/11/2023	8	0	0	1	2	1	1	2	1	0	0
Testing & Validation	03/11/2023	3	0	0	0	0	0	0	0	0	1	2
Total		14	2	1	1	2	1	1	2	1	1	2

SPRINT PLAN 3

Backlog Item	Status and Completion date	Original Estimate in hours	Day 1 08/11	Day 2 09/11	Day 3 10/11	Day 4 15/11	Day 5 16/11	Day 6 17/11	Day 7 22/11	Day 8 23/11	Day 9 24/11	Day 10 29/11	Day 11 30/11
Coding	22/11/2023	9	1	1	2	1	1	2	1	0	0	0	0
Testing & Validation	30/11/2023	5	0	0	0	0	0	0	0	1	2	1	1
Total		14	1	1	2	1	1	2	1	1	2	1	1

DATA FLOW DIAGRAM

LEVEL 0
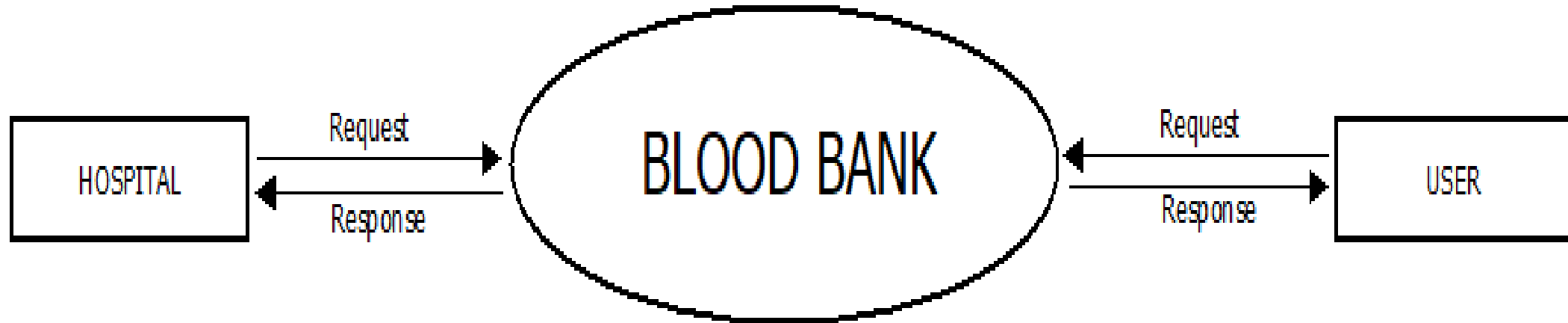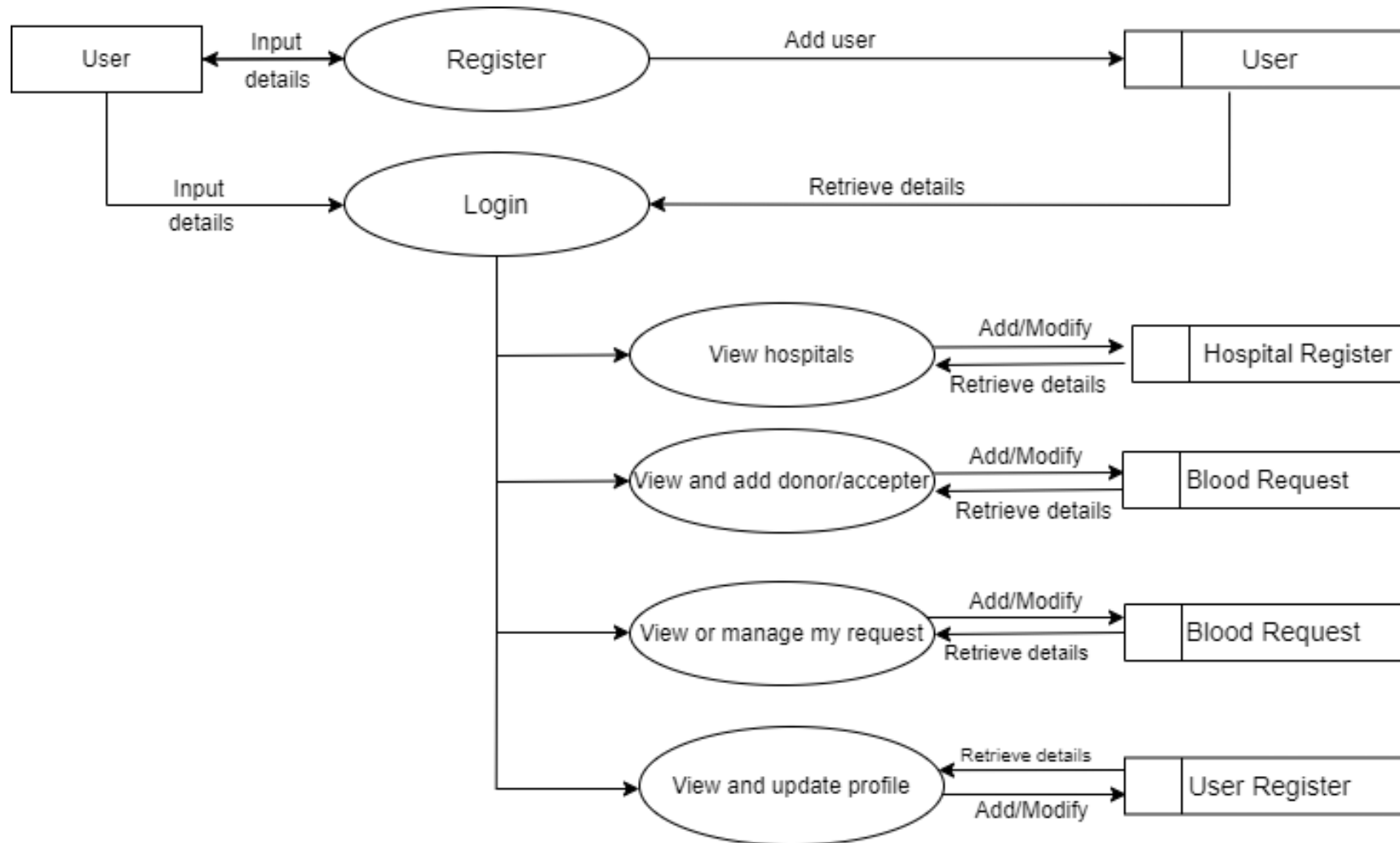
LEVEL 1
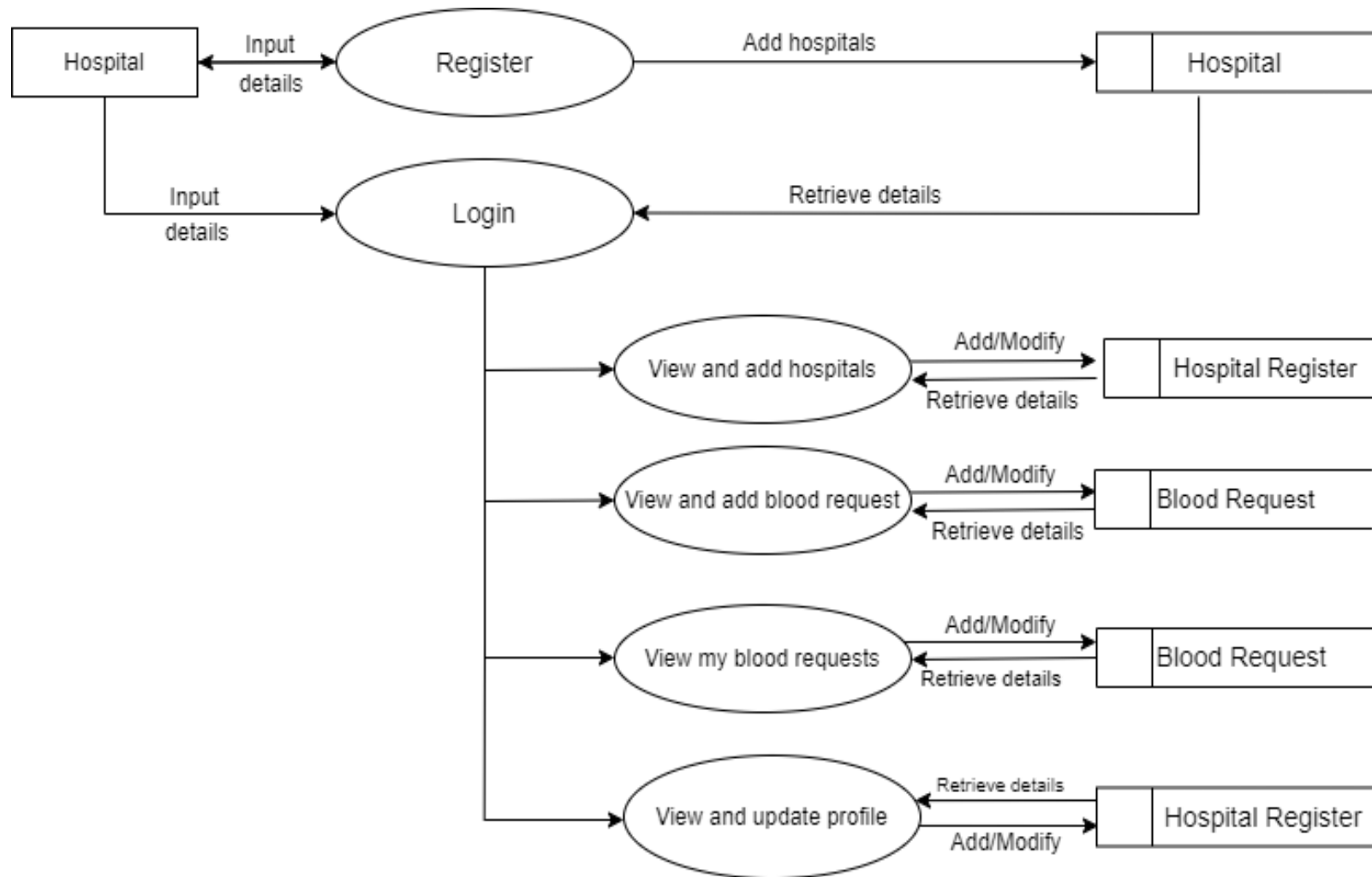
LEVEL 2

DEVELOPMENT ENVIRONMENT

SOFTWARE SPECIFICATION

Operating System   : Windows 8

Frond End   : Dart

Framework   : Flutter

Backend   : Java,MySql

IDE   : Visual Code Studio

HARDWARE SPECIFICATION

Processor   : Intel (R) Core(TM) i7-4700mq CPU @2.40GHz 2.40 GHz

Ram   :8GB

Hard Disk Drive   :1TB

THANK YOU