

Case study  
On  
“Analysis of Zydus Hospital Website”

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## **1. Introduction of system -:**

- The software is for the automation of Hospital Management System. (Zydus Hospital Website).

- This software maintains two level of users-:

i) Administrator Level

ii) User Level.

## **This Software includes-:**

- Patients detail and registration, providing prescription, precautions and health advice, providing and maintaining all kinds of tests for patient. Billing and Report generation.

- The hospital management system can be entered using a username and password. It is accessible by an administrator

- The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

- The Main Menu consist of all the various Login Interfaces which include: Reception, Nurse, Doctor, Lab, Pharmacy, Admin/Accounts and even Staff all have their respective Logins.

## 2. Components of system -:

There are many components are available in the system-:

### 1.Login system-:

-Use of this system admin, staff member, user can login into the system and admin can generate username and password for user so user of username and password user can login into the system.

### 2.User management-:

-User can login into system using username and password.

### 3.Patient information system-:

-Patient will fill the form or give the information to the system.

### 4.Patient management-:

-This system will handle all activity of patient and it will give patient information to the doctor.

### 5.Doctor management-:

-In this component doctor will get information about patient after that doctor will give treatment advice, medicine, required test-reports, precautions to patient.

### 6.Lab management-:

-This component will generate the lab-reports which described by doctor for patient.

### 7.Pharmacy management-:

-This component gives medicine and use of medicine information to patient which described by doctor for patient.

### 8.Ward management-:

-This component will allocate rooms to the patients. This component is handle by staff member.

**9.Staff management-:**

-This component will keep track of information of ward management. Also staff member can view their details and edits their details.

**10.Billing management-:**

-This component will keep track of all information about billing information.

**11.Patient discharge system-:**

-In this component it is consist discharge patient record and using this component patient will get total bill and medicine and lab reports.

**12.Resource management-:**

-Using This component resource manager will get all required resources items information from laboratory and pharmacy and also resource manager will keep track of information of expired items.

### **3. Feasibility Study-:**

#### **1. Technical Feasibility-:**

- For this system as resource we can take Visual Studio Code or Sublime text editor. For development of system, one will require HTML, CSS, JS as well MY SQL or SQL as programming languages.
- We required that type of code editor Which can execute HTML, CSS, JAVASCRIPT and SQL database code.
- Also we required domain for host our website on the server.

#### **2. Economic Feasibility-:**

- Visual Studio Code or Sublime text editor and such type of code editor are free of cost so we can use it so no need to purchase it.
- But we need domain for host our website on the server so we need to purchase domain. We can purchase it on yearly base plan.
- Also we need database for our website so we can purchase any database like SQL Database, MYSQL database ex.

#### **3. Operational Feasibility-:**

- During the study, we have to focus on the functionality related aspects.
- So Hospital Management System will consist of following list of modules.

1. Admin can login into the system using username and password also admin can generate username and password for new user.

2. User can login into the system using username and password.

3. Patient will fill the form.

4. Patient management

4.1 Get patient information

4.2 Send patient details to doctor

4.3 Add new patient

4.4 Update patient info

4.5 Remove patient info

5. Doctor management

5.1 Give Treatment advice to patient

5.2 Give patient wise medicine info to pharmacist

5.3 Give patient wise required test-reports info to lab manager

5.4 Add doctor detail

5.5 Update doctor info

5.6 Remove doctor info

6. Lab manger will do required test-report of patient which is described by doctor.

6.1 Lab test-report costing

7. Pharmacist will give medicine to patient which is prescribed by doctor.

7.1 Medicine costing

8. Ward management

8.1 Give ward info staff member (ward manager)

8.2 Give room cost to billing system

## 9. Staff management

9.1 Add room

9.2 Update rate

9.3 Empty room

9.4 Room costing

## 10. Billing system

10.1 Patient wise medicine cost

10.2 Patient wise lab test-report cost

10.3 Patient wise Room cost

10.4 Resource cost

## 11. Patient discharge

11.1 Get medicine

11.2 Get lab test-reports

11.3 Get total bill generated by accountant

## 12. Resources management

12.1 Pharmacy resource info

12.2 Laboratory resource info

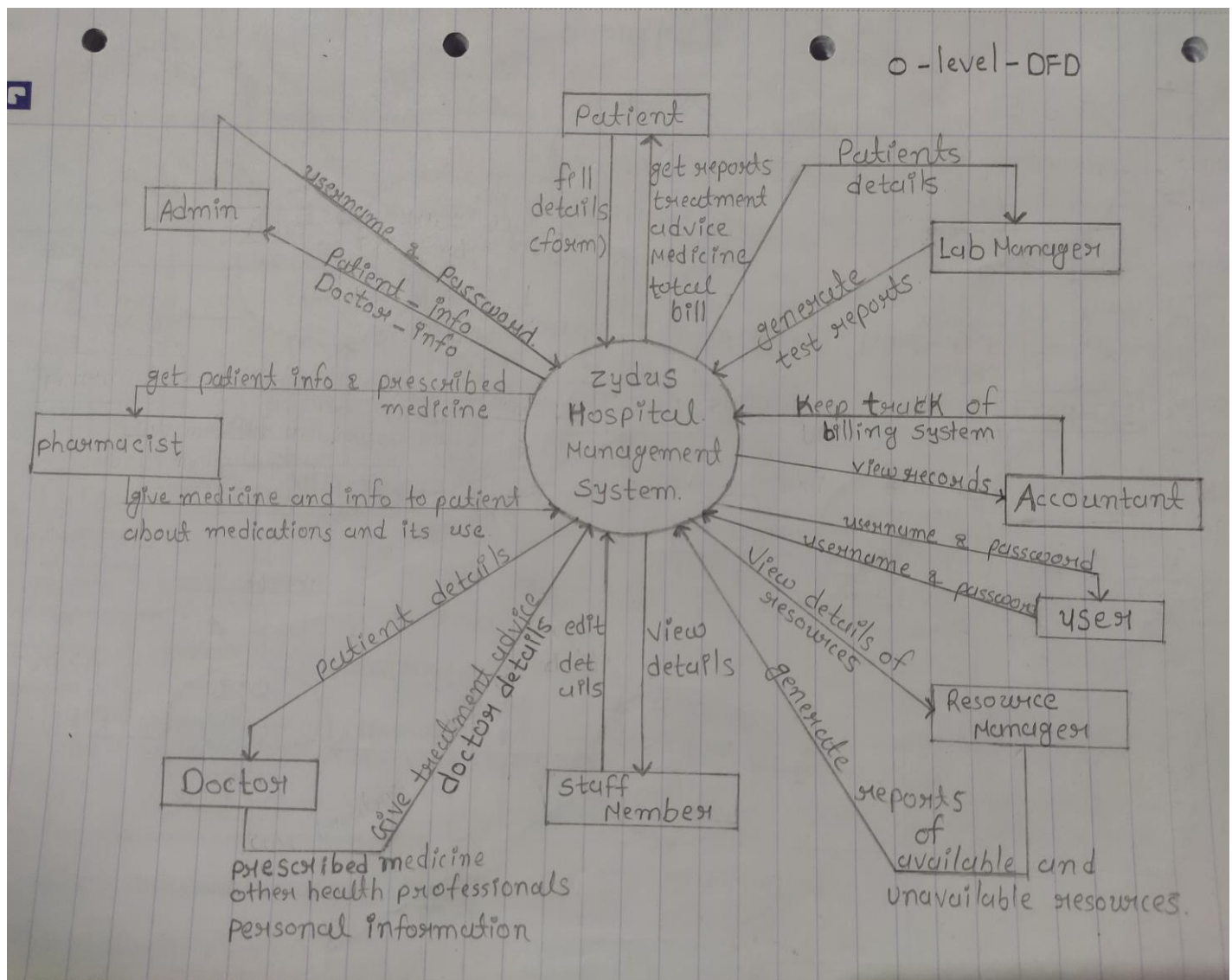
12.3 Add new resources

12.4 Remove expired resources

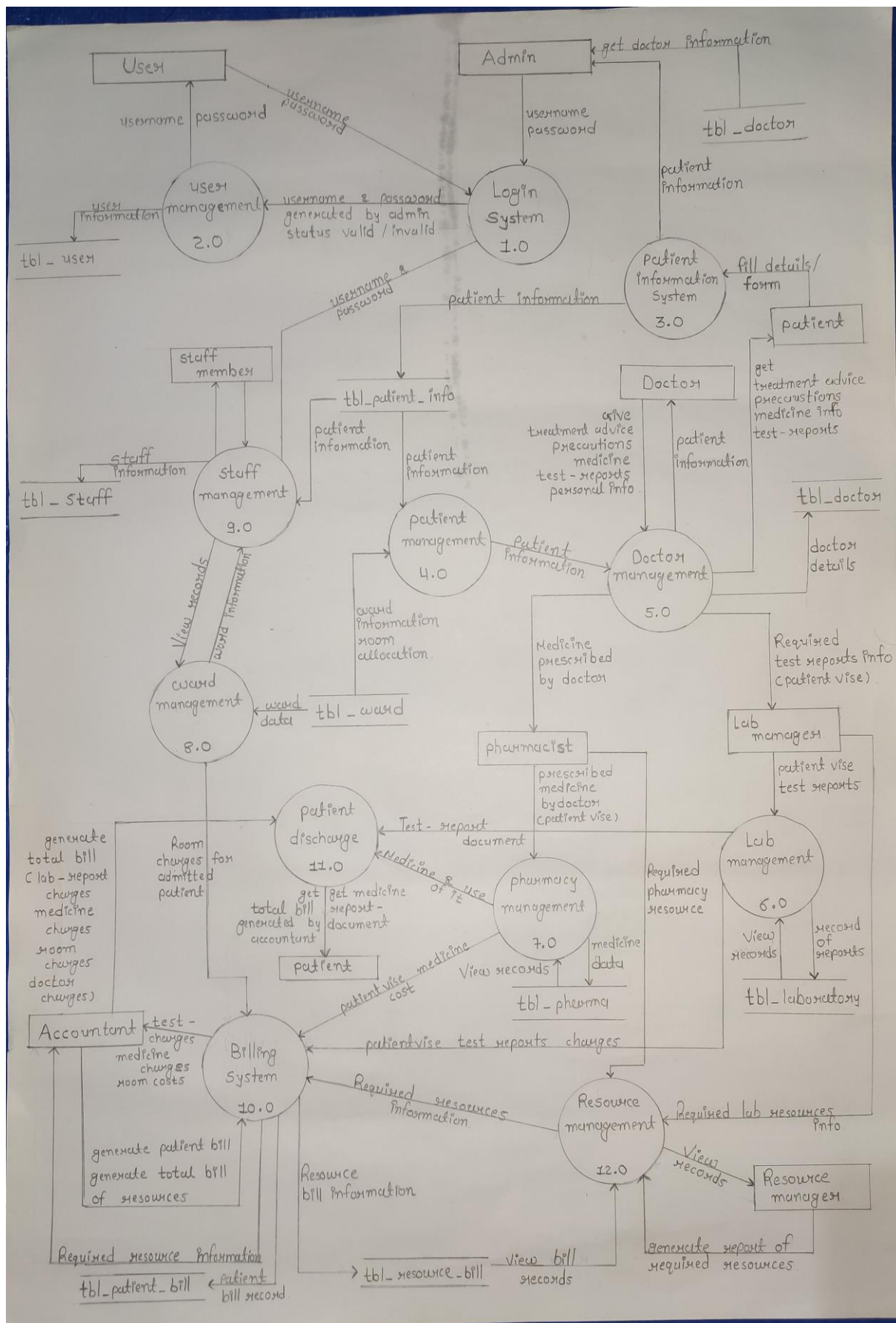


## 4. Data Flow Diagrams:-

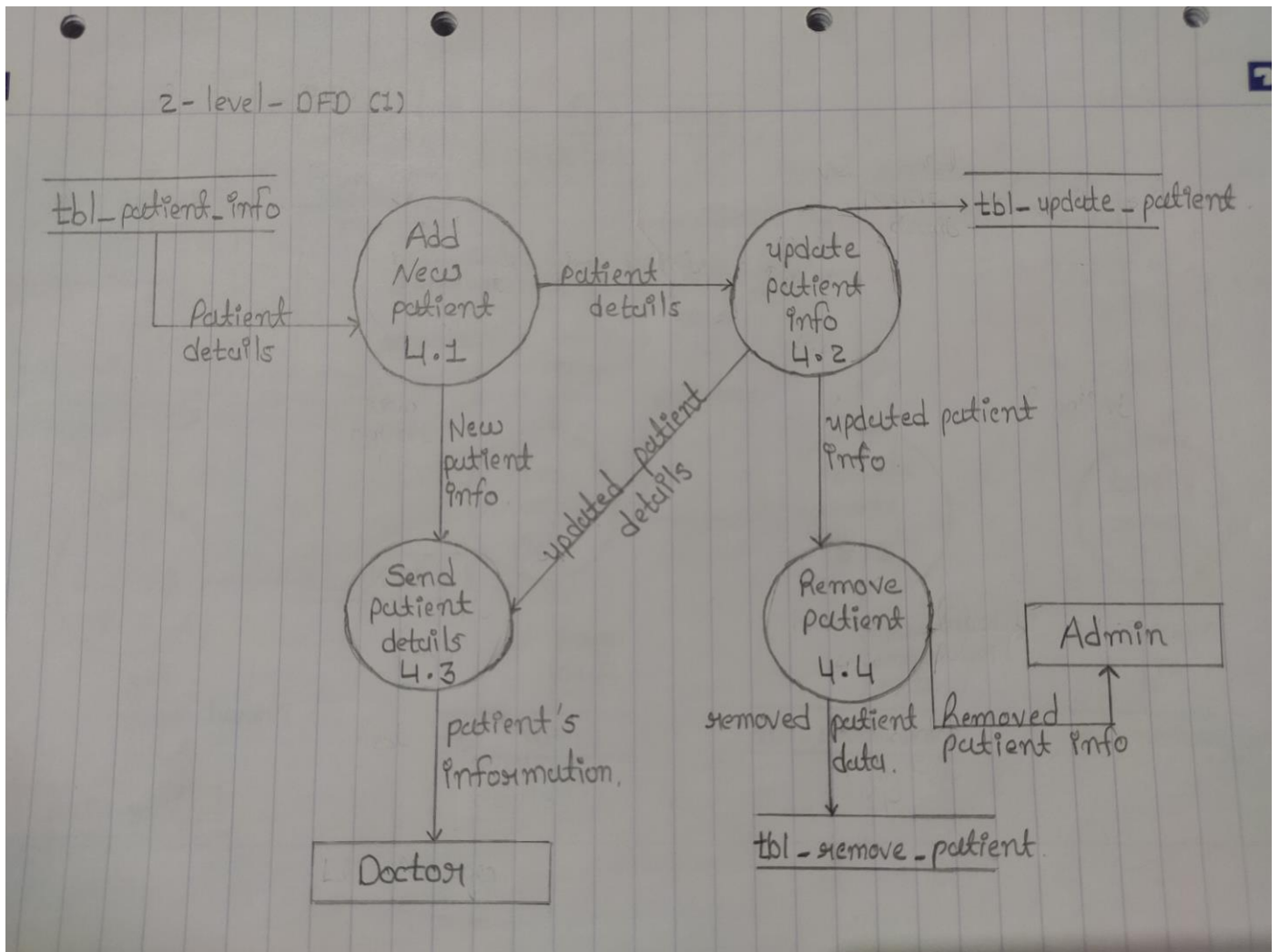
### Context Diagram:-



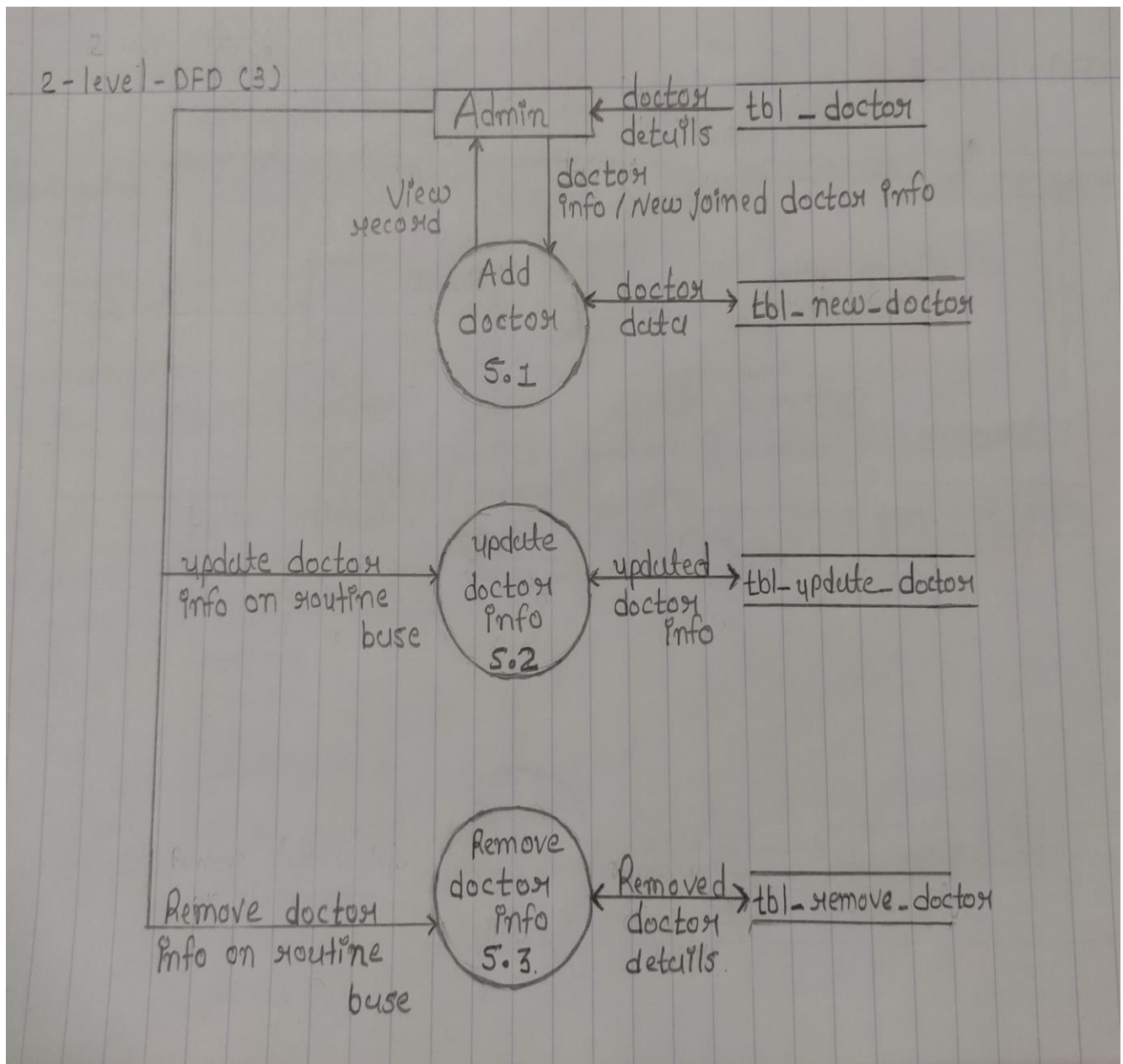
# 1-level-DFD-:



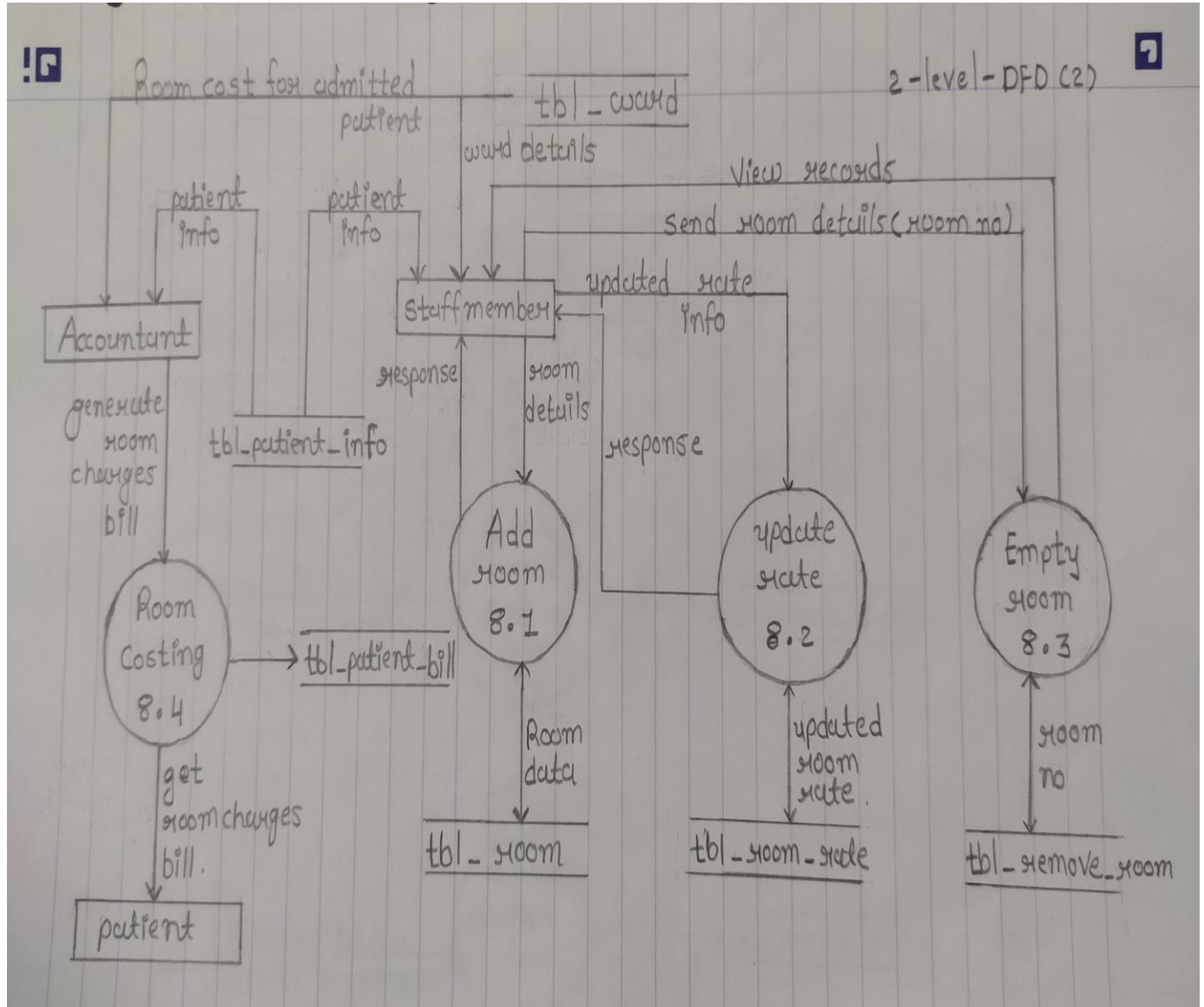
## 2-level-dfd (1)-:



## 2-level-dfd (2)-:

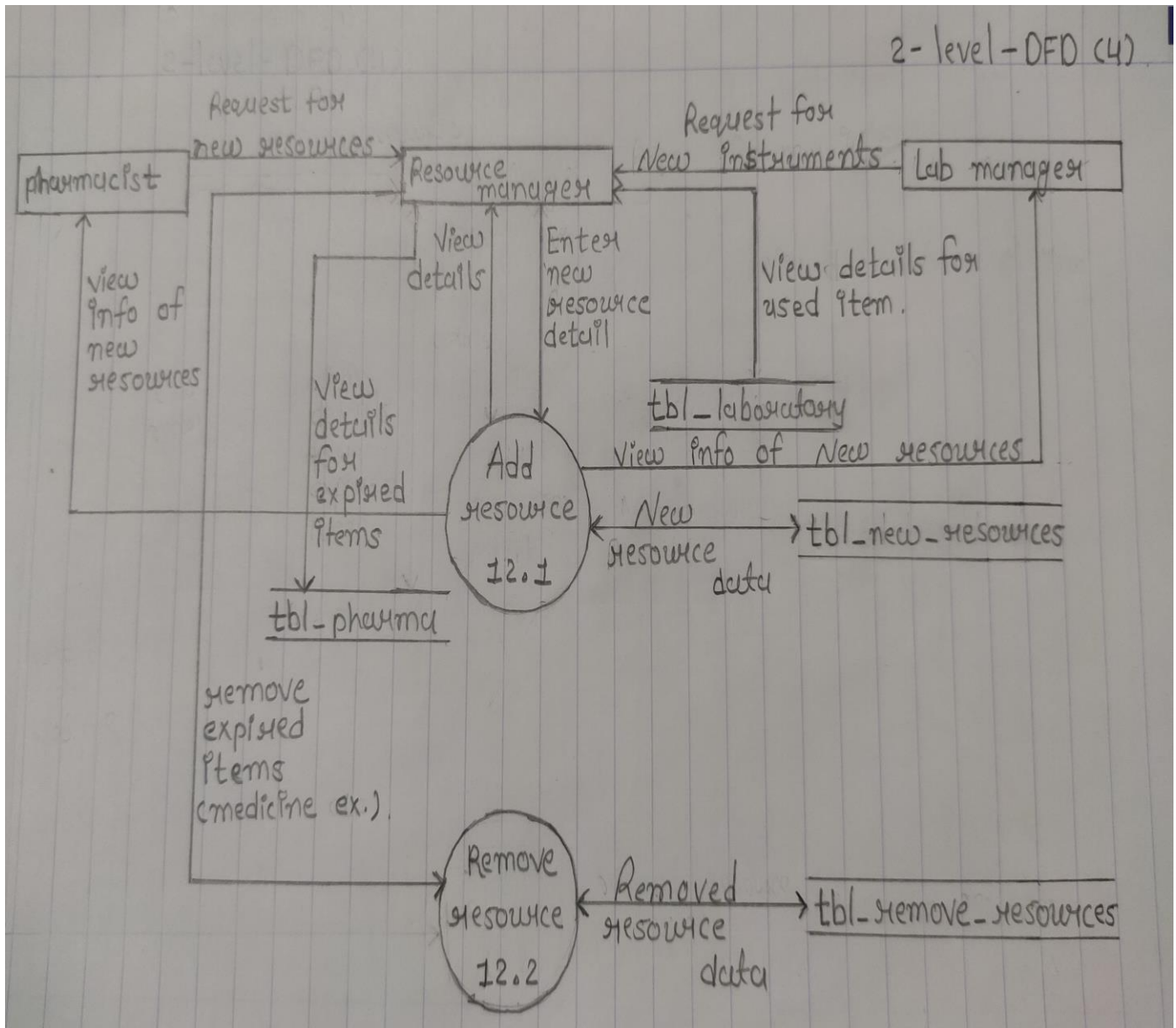


## 2-level-dfd (3)-:





## 2-level-dfd (4)-:



## 5. Screen Layouts-:

1.

Zydas Hospital Management

Login Panel

UserName

Password

Cancel

Login

Sign up

Forgot password

2.

Zydus Hospital Management

Login

Register patient

Patient discharge

Logout

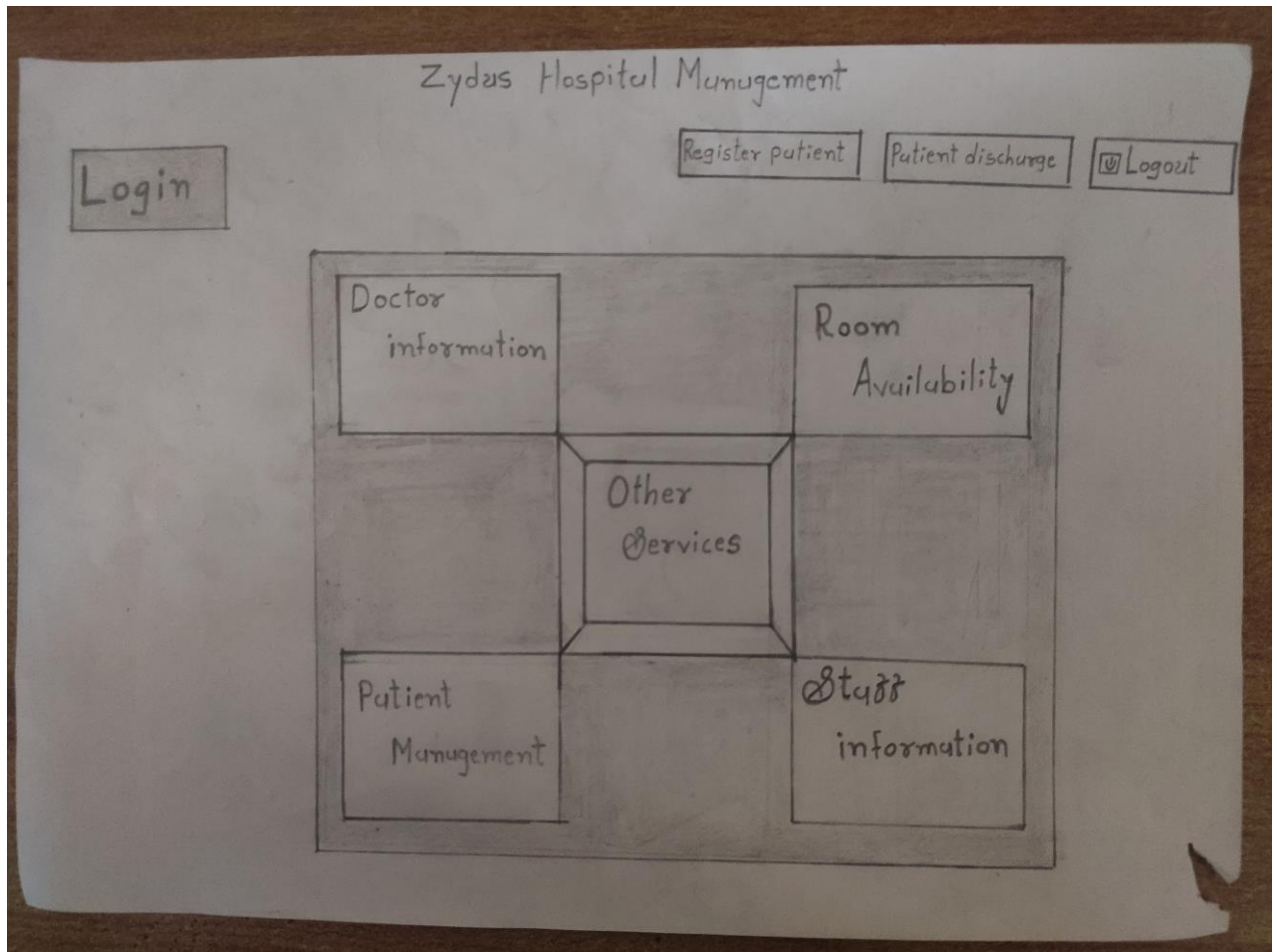
REF_NO	<input type="text"/>	DATE	<input type="text"/>
FIRST NAME	<input type="text"/>	LAST NAME	<input type="text"/>
SEX	<input type="text"/>	DATE OF BIRTH	<input type="text"/>
E-MAIL	<input type="text"/>	TELEPHONE	<input type="text"/>
ADDRESS	<input type="text"/>	BLOOD GROUP	<input type="text"/>

Submit

Patient's Database



3.



4.

Zydais Hospital Managment

**BILL**

Bill no.	<input type="text" value="1"/>	Date	<input type="text"/>
Patient Details			
ID	<input type="text"/>		
Name	<input type="text"/>		
Age	<input type="text"/>	Date of Admission	<input type="text"/>
Gender	<input type="text"/>	Date of Diescharge	<input type="text"/>
Charges			
Room Charges	<input type="text"/>	Miscellaneous	<input type="text"/>
Doctor Fees	<input type="text"/>		
Pathology	<input type="text"/>		
Total	<input type="text"/>		
<input type="button" value="ADD"/> <input type="button" value="SAVE"/> <input type="button" value="EXIT"/>			