

MEDICAL STORE MANAGEMENT SYSTEM



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ABOUT PROJECT

MEDICAL STORE MANAGEMENT SYSTEM

It is a management system of Medical Store, to maintain and manage record of medicines, employees and transactions related information.

It is a one stop intelligent solution of problems every medical store owners faces.

Moreover, its friendly GUI makes it more useful and time saving.

Administrator can manage everything, and each employee will have there own account, thus, making each employee work private from each other. However, ADMIN can observe everything.

Employees will only have rights for adding records, and their attendance is monitored within the application. Employees can reset the password either by their unique User Name or by directly contacting the administrator of the store.

Administrator credentials are given below, they can not be reset by the admin itself, if in case lost or forgotten. Admin needs to contact the engineer for the recovery.

User Name: **admin**

Password: **root**

For this project, Java language and MySQL databases are used.

REQUIREMENTS

- MySQL database.
- MySQL J (Connector) for MySQL database and Java connectivity.
- Java Development Kit (JDK) needed to be installed for Java libraries.
- NetBeans IDE
- rs2xml.jar file for editing queries into GUI table from SQL databases.
- Inno Setup compiler to make executable (.exe) file.

BACKEND WORKING

NetBeans IDE is used for designing GUI and Java coding.

As MySQL queries are initiated in Java instructions, MySQL connector J is used which export the extracted SQL query from Java to MySQL database.

For this purpose, MySQL JDBC (Java Database Connectivity) driver is added in libraries of Java project. The folder containing .jar file of the connector.

The rs2xml.jar file which is added to the libraries of Java project, makes it possible to view any changes in table in GUI.

MENU OF MEDICAL STORE MANAGEMENT

This is the main menu of the medical store software.

From “ATTENDANCE” tab, employees can give attendance on regular working days. Then, they can proceed to their working and managing data.

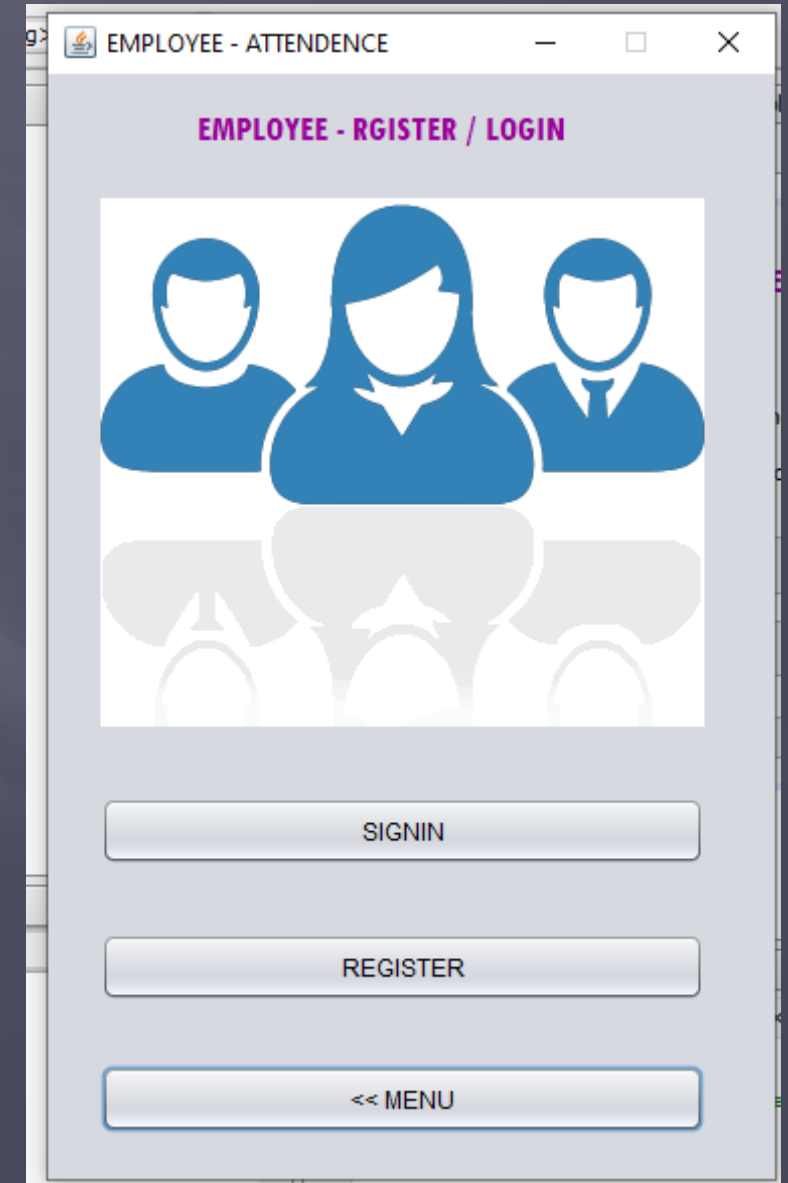
From “ADMINISTRATOR LOGIN”, admin login panel opens, through which admins can manage everything throughout the application.

“EXIT” button closes the application.



SIGIN/REGISTER

This is the selection menu, where employee either proceed for login or register themselves if in case new. For going back to menu, MENU button will help.

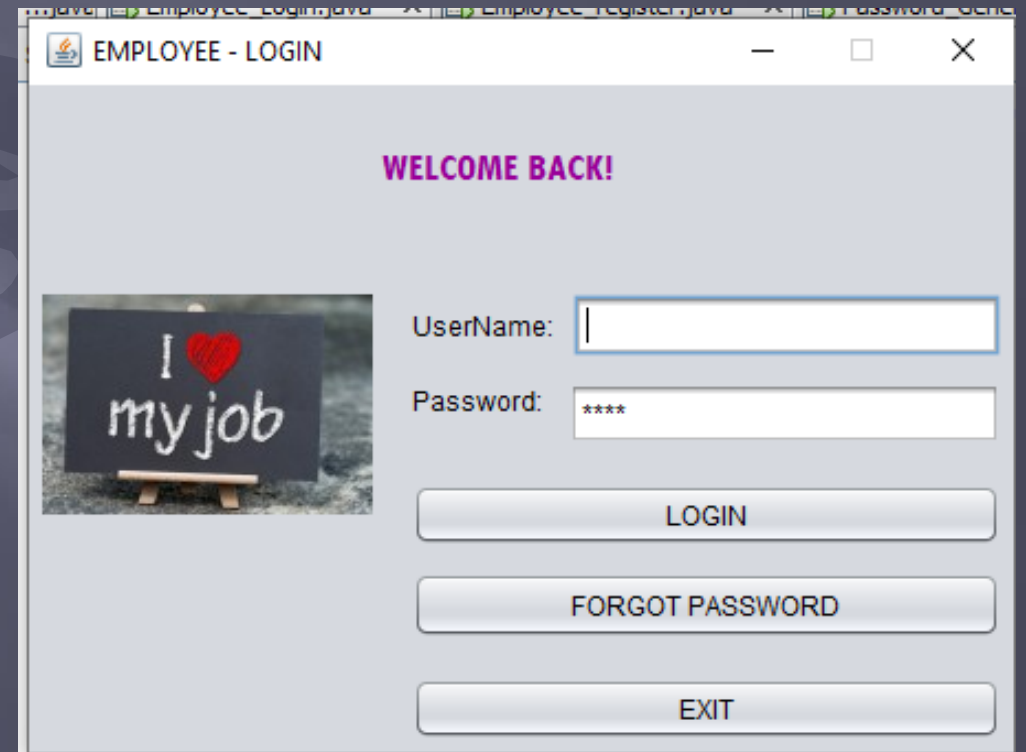


EMPLOYEE LOGIN PANEL

This is the Employee Login Panel, through which employee can enter its unique username and password to continue for attendance.

However, if employee forgot/lost its password, forgot password button will help.


Exit button will close the application.



The screenshot shows a Java application window titled "EMPLOYEE - LOGIN". The window has a light gray background. At the top, it says "WELCOME BACK!" in purple. On the left side, there is a small image of a black sign with a red heart and the text "I love my job". On the right side, there are two input fields: "UserName:" and "Password:". The "Password:" field has four asterisks (****) inside. Below the input fields, there are three buttons: "LOGIN", "FORGOT PASSWORD", and "EXIT".

EMPLOYEE - LOGIN

WELCOME BACK!



UserName:

Password:

LOGIN

FORGOT PASSWORD

EXIT

FORGOT PASSWORD PANEL

This is the RESET PASSWORD window, where employee will enter its username, then check if it exists in the record, then enters a new strong password, once clicks on reset, the password is reset.

Password Generator tool is recommended to create the strong password. Back to login panel button will lead to Login wizard to enter credentials.

RESET YOUR PASSWORD

RESET YOUR PASSWORD HERE!

NOTE: If you forgot your username, contact ADMIN.

Enter Your UserName:

CHECK!

Enter New Password:

RESET!

NOTE: We encourage you to use our Password Generator tool to get strong passwords!

OPEN PASSWORD GENERATOR

<< BACK TO LOGIN PANEL

PASSWORD GENERATOR TOOL

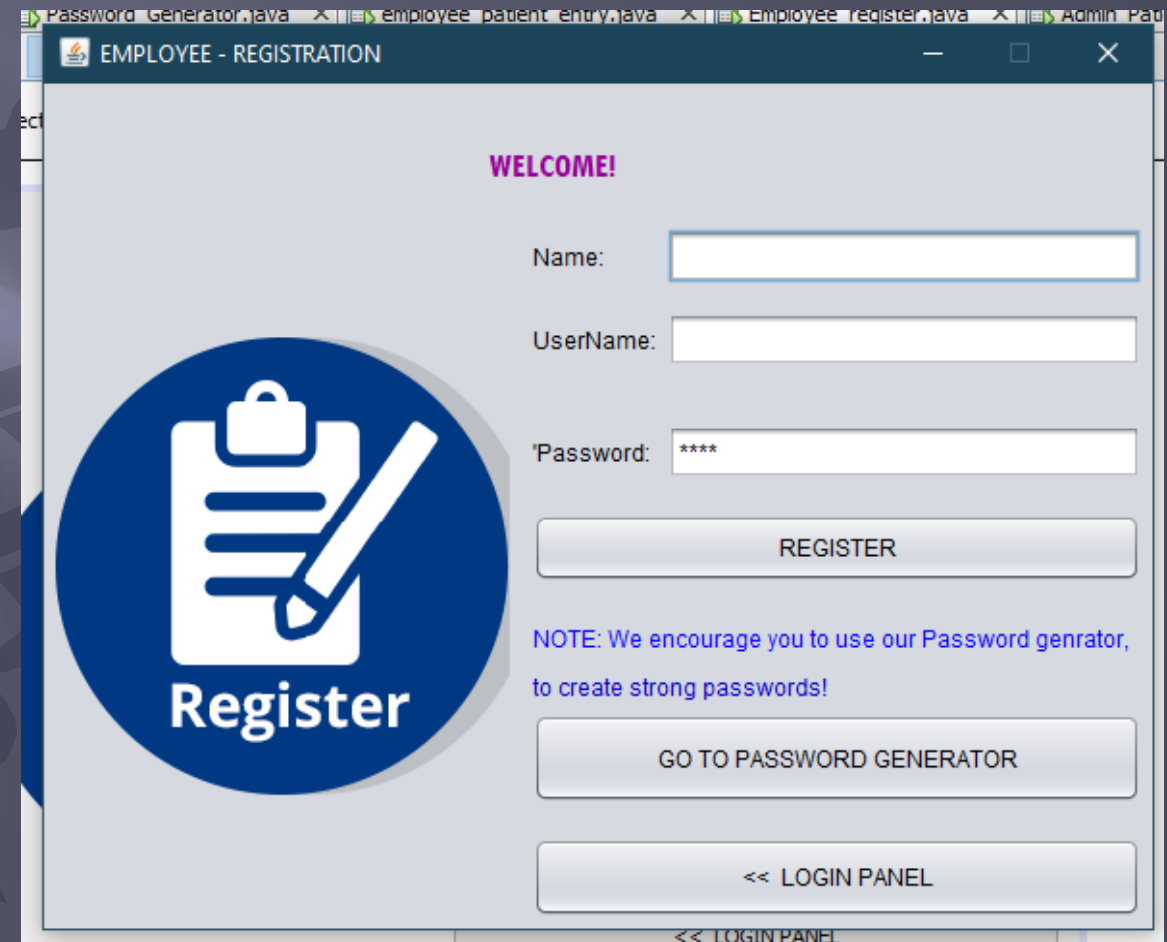
This is the Password Generator tool, which can generate alphanumeric strong passwords ranging 1 to 100 characters of length. However, employees are allowed up to 10 characters for the registration purpose. Keeping either 5 or 6 characters length is recommended for employees. Back to registration form and reset password buttons leads to respective panel.



The screenshot shows a web application titled "PASSWORD GENERATOR". It features a logo with a padlock and the text "Password Generator". A large blue padlock icon is centered on a yellow square. To the right, a red note states: "NOTE: Allowed maximum length for our registration is 10." Below this, there is a text input field labeled "Enter Length:" and a "GENERATE NOW!" button. At the bottom, there are two buttons: "<< BACK TO REGISTRATION FORM" and "<< BACK TO RESET PASSWORD PANEL".

REGISTRATION PANEL

This is the registration form, where employee select its unique username, enters desired password, and register themselves in the employee record. Password Generator Tool is recommended. Login Panel button leads back to Login wizard.



EMPLOYEE - REGISTRATION

WELCOME!

Name:

UserName:

Password:

REGISTER

NOTE: We encourage you to use our Password genrator, to create strong passwords!

GO TO PASSWORD GENERATOR

<< LOGIN PANEL

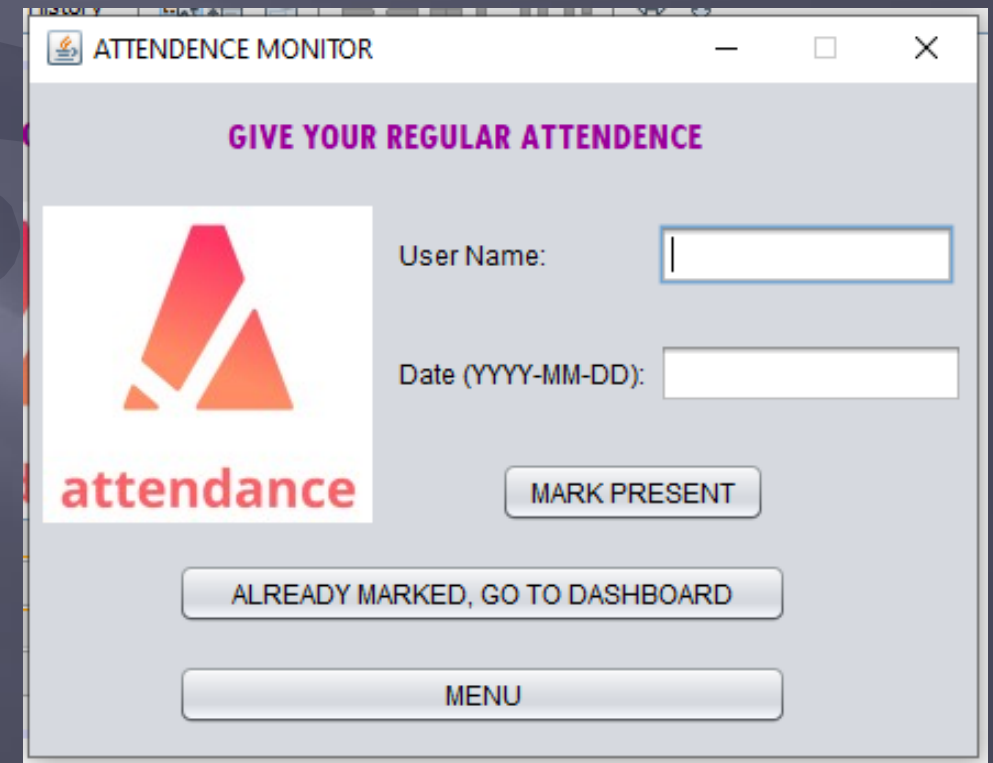
ATTENDANCE PANEL

This is the Attendance Panel, where employees can give their regular attendance.

Mark Present button will save their attendance as present in the given date.

Go to Dashboard button will lead to employee's dashboard.

Menu button will open menu through which, at the end of the day, employee can exit the application.

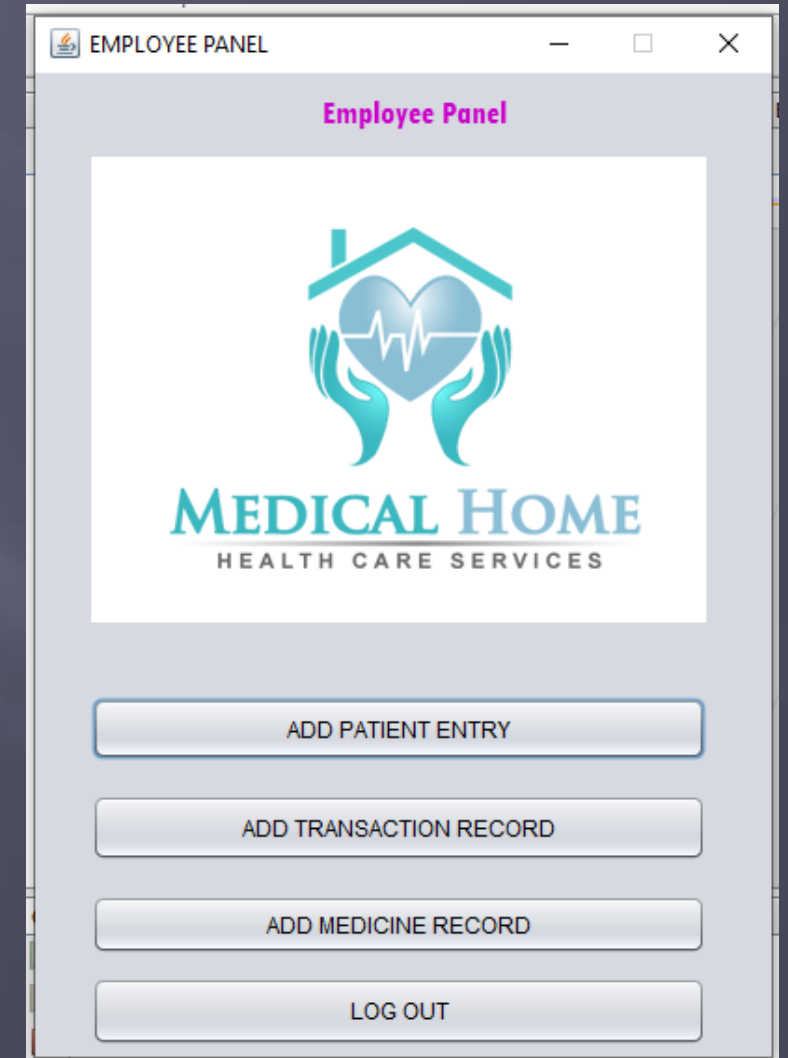


The screenshot shows a web application window titled "ATTENDANCE MONITOR". The main heading inside the window is "GIVE YOUR REGULAR ATTENDANCE" in purple. On the left side, there is a logo consisting of a stylized orange and red triangle above the word "attendance" in red. To the right of the logo, there are two input fields: "User Name:" and "Date (YYYY-MM-DD):". Below these fields are three buttons: "MARK PRESENT", "ALREADY MARKED, GO TO DASHBOARD", and "MENU".

EMPLOYEE PANEL

This is the employee management panel, where it can—

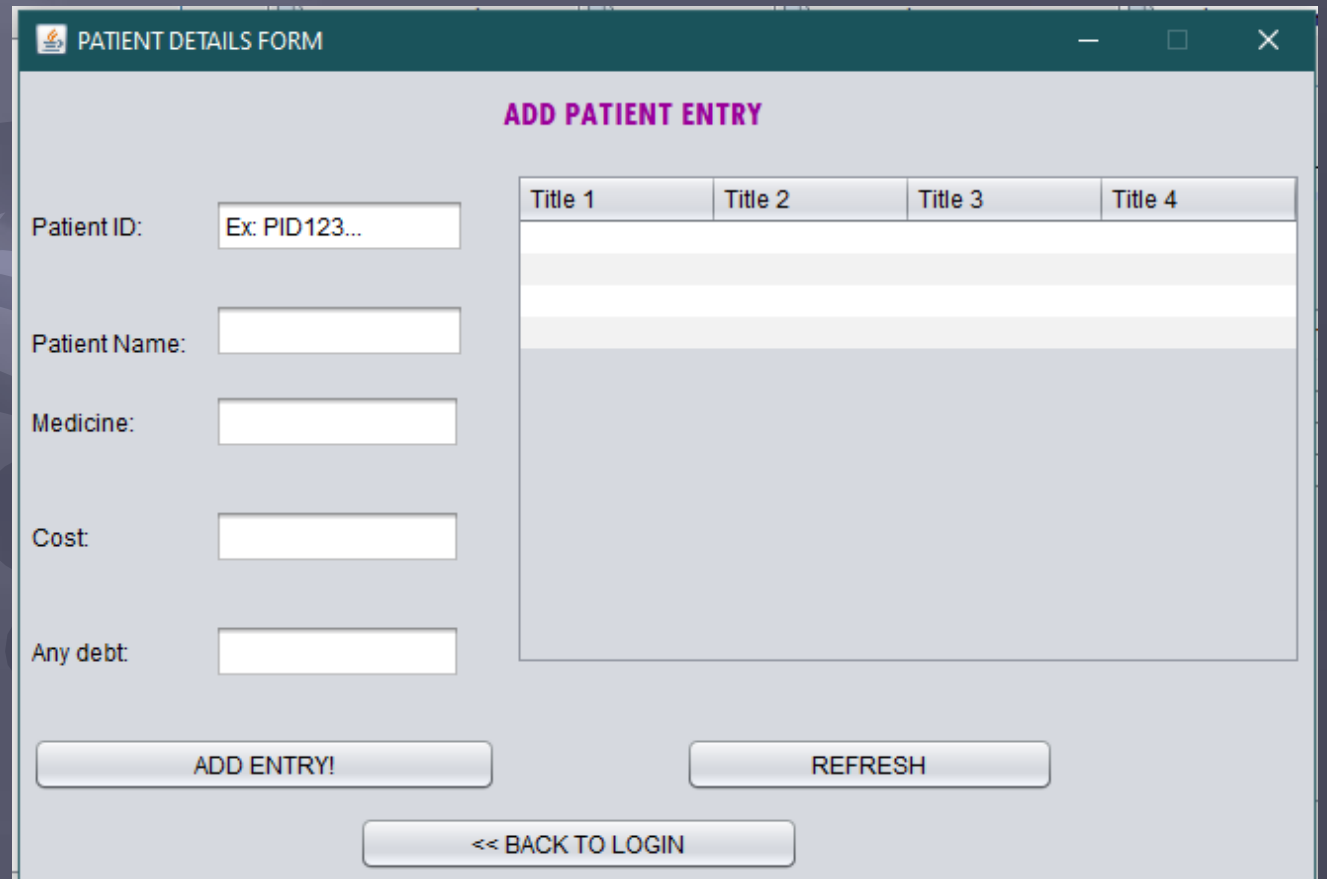
- Add Patient Entry
- Add Transaction Record
- Add Medicine Record
- Log out to the attendance panel, to exit the application.



PATIENT ENTRY BY AN EMPLOYEE

Through this panel, employee can add patient details to the record.

In this case, limited editing rights are given to the employee like it can not delete any patient details.



The screenshot shows a web application window titled "PATIENT DETAILS FORM". Inside, there is a section titled "ADD PATIENT ENTRY" in purple. On the left, there are five input fields with labels: "Patient ID:" (with a placeholder "Ex: PID123..."), "Patient Name:", "Medicine:", "Cost:", and "Any debt:". On the right, there is a table with four columns labeled "Title 1", "Title 2", "Title 3", and "Title 4". The table has three empty rows. At the bottom, there are three buttons: "ADD ENTRY!", "REFRESH", and "<< BACK TO LOGIN".

Title 1	Title 2	Title 3	Title 4

EMPLOYEE TRANSACTION RECORD MANAGEMENT

This is employee level transaction control panel, employee can only add the record of transaction with the customer.

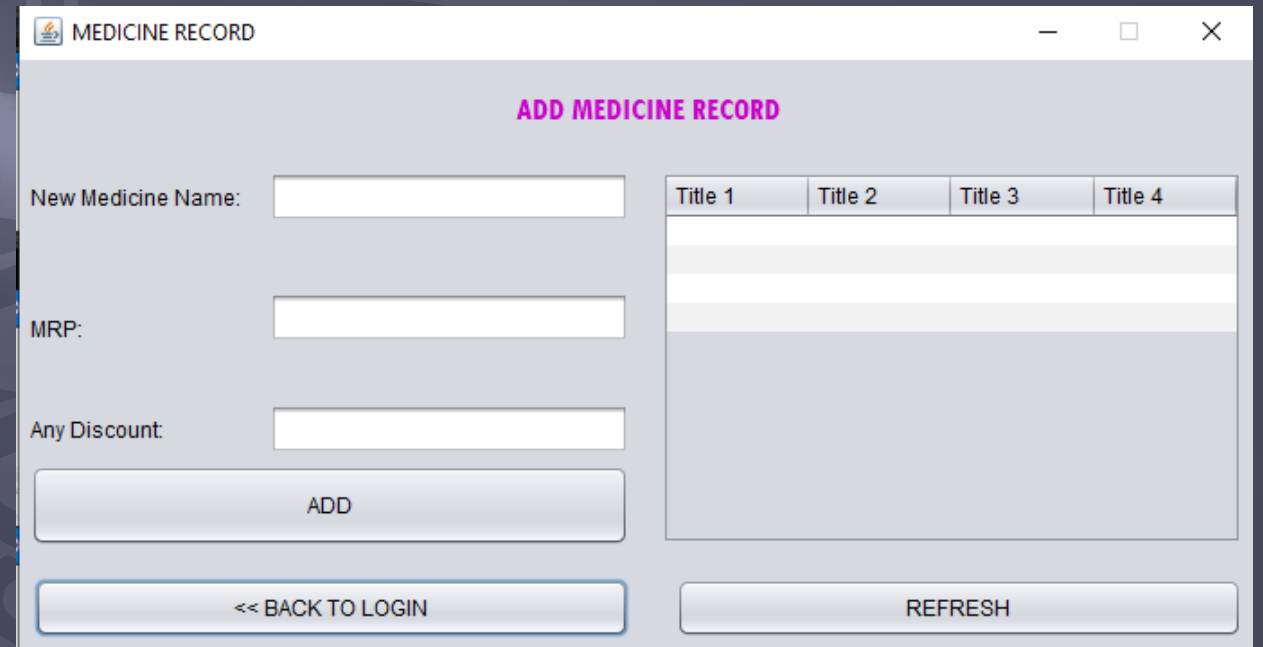
In this case also, limited rights are given to the employee.

[illegible]

EMPLOYEE MEDICINE RECORD MANAGEMENT

This is the employee medicine management console, if in case any employee attend the receiving of delivered new medicine, then it can add to the record.

However, limited rights are given, like removing medicine data can not be done by an employee.



The screenshot displays a web application window titled "MEDICINE RECORD". The interface is designed for adding new medicine records. It features three input fields on the left: "New Medicine Name:", "MRP:", and "Any Discount:", each followed by a text input box. Below these fields is a large "ADD" button. To the right of the input fields is a table with four columns labeled "Title 1", "Title 2", "Title 3", and "Title 4". The table has three empty rows for data entry. At the bottom of the window, there are two buttons: "<< BACK TO LOGIN" on the left and "REFRESH" on the right. The title "ADD MEDICINE RECORD" is displayed in pink text at the top center of the form area.

Title 1	Title 2	Title 3	Title 4

ADMINISTRATOR LOGIN PANEL


This is the main admin login panel, its login credential is unique and given to the admin only. Through this panel, administrator of the medical store can login to manage the records with administrative rights.

User Name and Password, as per provided with software, needs to be kept in a very safe place. Once lost or forgot, admin cannot modify it, he/she needs to call an engineer for the recovery.

The screenshot shows a web browser window titled "ADMIN LOGIN". The page has a light blue header with the text "ADMIN LOGIN" in pink. Below the header is a large illustration of a man in a top hat and suit, holding a microphone, standing behind a podium labeled "ADMIN". In front of the podium are several small, stylized human figures. Below the illustration are two input fields: "UserName:" followed by a text box, and "Password:" followed by a text box with four asterisks. Below these fields is a button labeled "LOGIN TO DASHBOARD". At the bottom, there is a red text note: "NOTE: If you forget or lost your password, there is no way for you to reset it. You need to call ENGINEER, to reset it for you with an applicable cost." and a button labeled "<< BACK TO MENU".

ADMIN LOGIN

ADMIN LOGIN



UserName:

Password:

LOGIN TO DASHBOARD

NOTE: If you forget or lost your password, there is no way for you to reset it. You need to call ENGINEER, to reset it for you with an applicable cost.

<< BACK TO MENU

ADMINISTRATIVE PANEL

This is the administrative control panel, through which admin can—

- Manage employee records
- Manage medicine records
- Manage transaction records
- Any critical or important cases management



ADMIN EMPLOYEES RECORD MANAGEMENT

This is the employees record management console, through which admin can add any new employee, and provide it with its credentials. If in any case, employee resigns from job admin can remove its data permanently. Employees attendance can also be viewed.

The screenshot shows a web application titled "EMPLOYEE RECORD MANAGEMENT". It features two main sections: "EMPLOYEES RECORD" and "ADD RECORD".

EMPLOYEES RECORD

Title 1	Title 2	Title 3	Title 4

Below the table is a "REFRESH" button.

ADD RECORD

Employee Name:

Employee UserName:

NOTE: Default password is 1234, ask them to reset it.

ADD

MODIFY RECORD

Enter UserName:

*New UserNa...

CHANGE USERNAME DELETE

VIEW EMPLOYEE ATTENDANCE

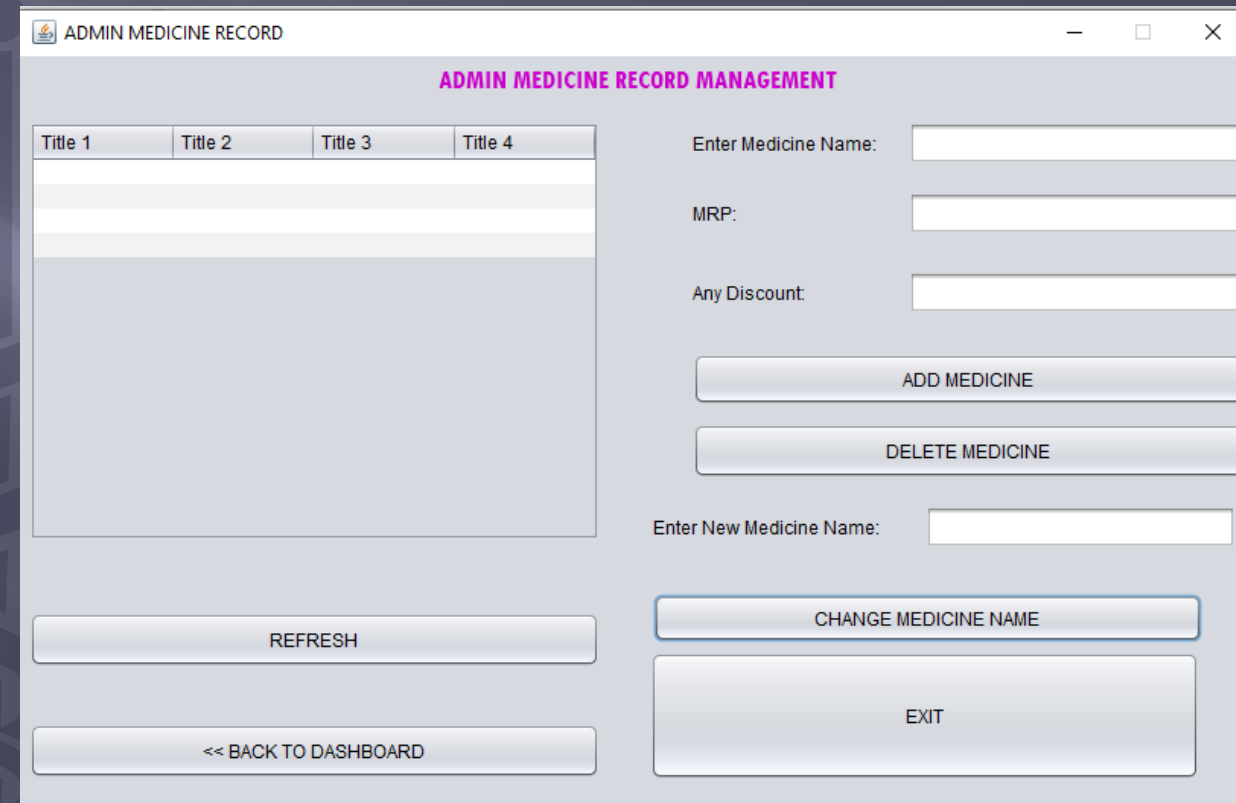
Username	Date	Attendance
emp1	2020-10-14	P

VIEW

<< BACK TO DASHBOARD EXIT

ADMIN MEDICINE RECORD MANAGEMENT

This is the medicine record management console with administrative rights. Admin can add, delete and modify name of any medicine.



The screenshot displays a web application window titled "ADMIN MEDICINE RECORD". The main heading is "ADMIN MEDICINE RECORD MANAGEMENT". On the left, there is a table with four columns labeled "Title 1", "Title 2", "Title 3", and "Title 4". The table contains three empty rows. To the right of the table, there are input fields for "Enter Medicine Name:", "MRP:", and "Any Discount:". Below these fields are three buttons: "ADD MEDICINE", "DELETE MEDICINE", and "CHANGE MEDICINE NAME". At the bottom right, there is an "EXIT" button. At the bottom left, there are two buttons: "REFRESH" and "<< BACK TO DASHBOARD".

Title 1	Title 2	Title 3	Title 4

Enter Medicine Name:

MRP:

Any Discount:

ADD MEDICINE

DELETE MEDICINE

Enter New Medicine Name:

CHANGE MEDICINE NAME

EXIT

REFRESH

<< BACK TO DASHBOARD

ADMIN TRANSACTION RECORD

This is the admin level transaction control panel. Through which admin can not only add records but also can delete and modify it.

[illegible]

This is admin level of Patient record management console with some admin rights of deleting the patient record.

ADMIN PATIENT RECORD MANAGEMENT

Patient ID:

Patient Name:

Medicine:

Cost:

Any debt:

ADD ENTRY

Title 1	Title 2	Title 3	Title 4

REFRESH

ENTER ID:

DELETE PATIENT RECORD

EXIT

BACK TO DASHBOARD

CRITICAL/IMPORTANT CASES MANAGEMENT

For any critical cases, like any patient is arriving after working hours or any personal cases etc., are managed by admin through this panel.

[illegible]

DATABASE

In this project, MySQL database management system is used, in which a database is created under which required tuples (tables) are stored. In this application “Admin” database is used. It contains six tables as shown.

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| admin    |
| information_schema |
| mysql    |
| performance_schema |
| phpmyadmin |
| test     |
+-----+
6 rows in set (0.002 sec)

MariaDB [(none)]>
```

```
MariaDB [(none)]> use admin;
Database changed
MariaDB [admin]> show tables;
+-----+
| Tables_in_admin |
+-----+
| attendance       |
| critical_patient |
| employee_record  |
| medicine_record  |
| patient_record   |
| transact_record  |
+-----+
6 rows in set (0.001 sec)
```

ATTENDANCE RECORD

```
MariaDB [(none)]> use admin;
```

```
Database changed
```

```
MariaDB [admin]> desc attendance;
```

Field	Type	Null	Key	Default	Extra
Username	varchar(20)	NO	PRI	NULL	
Date	date	YES		NULL	
Attendance	char(10)	YES		NULL	

```
3 rows in set (0.030 sec)
```

```
MariaDB [admin]> insert into attendance values("emp1","2020-10-14","P");
```

```
Query OK, 1 row affected (0.070 sec)
```

```
MariaDB [admin]> select * from attendance;
```

Username	Date	Attendance
emp1	2020-10-14	P

```
1 row in set (0.001 sec)
```

EMPLOYEE RECORD

```
MariaDB [admin]> desc employee_record;
```

Field	Type	Null	Key	Default	Extra
UserName	varchar(10)	YES	UNI	NULL	
Password	varchar(11)	YES		NULL	
Name	varchar(20)	YES		NULL	

```
3 rows in set (0.080 sec)
```

```
MariaDB [admin]> insert into employee_record values("harsh","6666","Harsh");  
Query OK, 1 row affected (0.118 sec)
```

```
MariaDB [admin]> select * from employee_record;
```

UserName	Password	Name
harsh	6666	Harsh

```
1 row in set (0.000 sec)
```

MEDICINE RECORD

```
MariaDB [admin]> desc medicine_record;
```

Field	Type	Null	Key	Default	Extra
Name	varchar(30)	YES	UNI	NULL	
MRP	double(10,3)	YES		NULL	
Discount	double(10,3)	YES		NULL	

```
3 rows in set (0.031 sec)
```

```
MariaDB [admin]> insert into medicine_record values("Paracetamol","65","0");  
Query OK, 1 row affected (0.104 sec)
```

```
MariaDB [admin]> select * from medicine_record;
```

Name	MRP	Discount
Paracetamol	65.000	0.000

```
1 row in set (0.000 sec)
```

PATIENT RECORD

```
MariaDB [admin]> desc patient_record;
```

Field	Type	Null	Key	Default	Extra
PatientID	varchar(30)	YES	UNI	NULL	
Name	varchar(30)	YES		NULL	
Medicine	varchar(20)	YES		NULL	
Cost	double(10,3)	YES		NULL	
AnyDebt	double(10,2)	YES		NULL	

```
5 rows in set (0.175 sec)
```

```
MariaDB [admin]> insert into patient_record values("PID01","Kushagra","Paracetamol","65","0");  
Query OK, 1 row affected (0.068 sec)
```

```
MariaDB [admin]> select * from patient_record;
```

PatientID	Name	Medicine	Cost	AnyDebt
PID01	Kushagra	Paracetamol	65.000	0.00

```
1 row in set (0.000 sec)
```

TRANSACTION RECORD

```
MariaDB [admin]> desc transact_record;
```

Field	Type	Null	Key	Default	Extra
TransactionID	varchar(30)	YES	UNI	NULL	
Cost	double(10,3)	YES		NULL	
Discount	double(10,3)	YES		NULL	
Date	date	YES		NULL	

```
4 rows in set (0.055 sec)
```

```
MariaDB [admin]> insert into transact_record values("TID01","65","0","2020-11-15");  
Query OK, 1 row affected (0.111 sec)
```

```
MariaDB [admin]> select * from transact_record;
```

TransactionID	Cost	Discount	Date
TID01	65.000	0.000	2020-11-15

```
1 row in set (0.000 sec)
```

CRITICAL PATIENT RECORD

```
MariaDB [admin]> desc critical_patient;
```

Field	Type	Null	Key	Default	Extra
PatientID	varchar(30)	YES	UNI	NULL	
Name	varchar(30)	YES		NULL	
Cost	double(10,3)	YES		NULL	
Date	date	YES		NULL	

```
4 rows in set (0.109 sec)
```

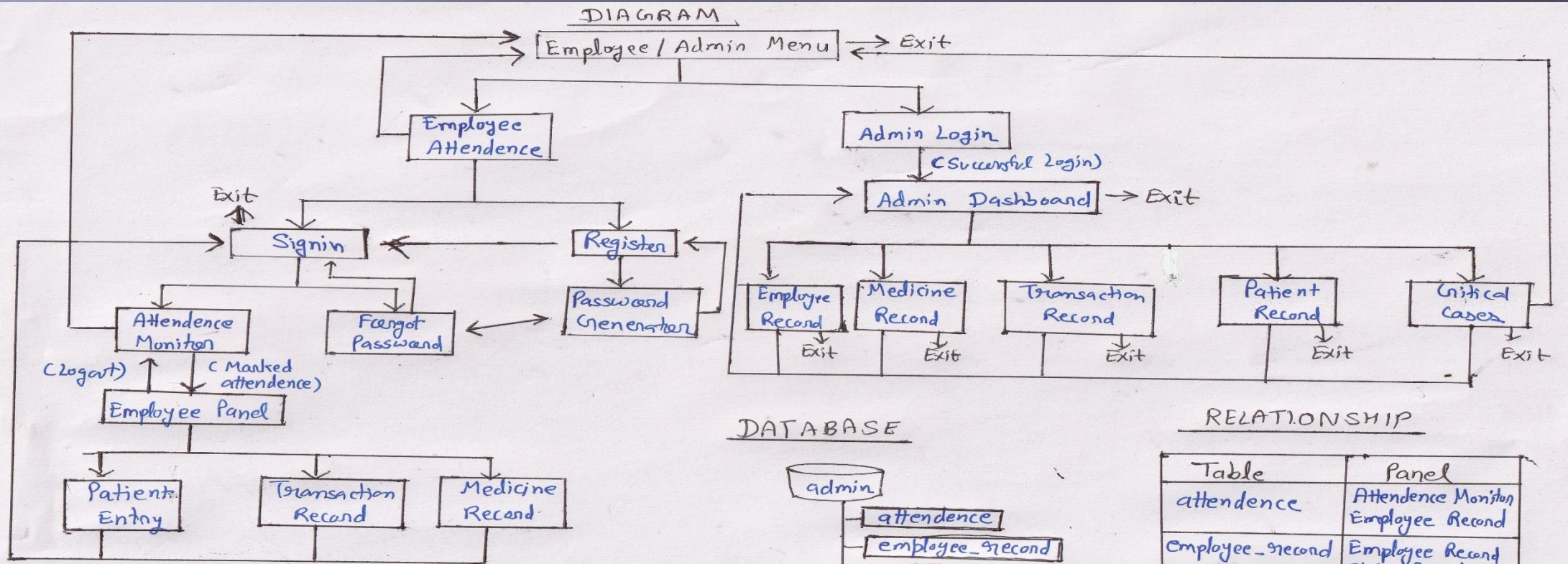
```
MariaDB [admin]> insert into critical_patient values("PID01","ABC","1000","2020-11-15");  
Query OK, 1 row affected (0.082 sec)
```

```
MariaDB [admin]> select * from critical_patient;
```

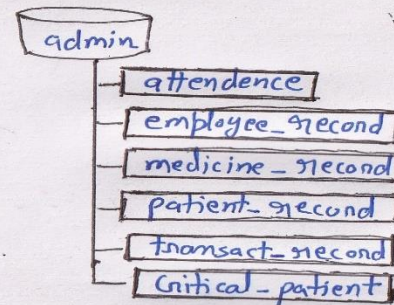
PatientID	Name	Cost	Date
PID01	ABC	1000.000	2020-11-15

```
1 row in set (0.000 sec)
```


ER DIAGRAM AND DATABASE



DATABASE



RELATIONSHIP

Table	Panel
attendance	Attendance Monitor Employee Record
employee_record	Employee Record Signin Panel Register Panel Forgot Password
medicine_record	Medicine Record (Both)
patient_record	Patient Entry Patient Record
transaction_record	Transaction Record (Both)
critical_patient	Critical Cases

NOTE

- ▣ This is a provisional ppt of my project. I haven't shown the coding part due to privacy. I have started this project on 2020-08-25 and finished on 2020-11-15. It took 83 days to complete.
- ▣ This is a solo project, I used 12th class concepts and got some help from Internet. I understood all the concepts used in this project, that are, Java Basics, MySQL and their connectivity.
- ▣ The executable (.exe) file installer of the project is also made to separate the application from IDE. Cloud SQL can be used instead of localhost to make it universal to any Windows Machine. For now, I have used localhost.



THANK YOU!