

Personal Medical Assistance

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Personal Medical Assistance

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PART 1: DESCRIPTION OF THE PROJECT

It is a health tracking system where a family can keep track of the medicine that has to be taken and the family members can view the prescribed medicine which has to be taken-in every day and doctor can check the patient history maintain the patient health and update the medicine based on the health status. Family can consult doctors by setting up meeting with the doctor through the app.

I developed an end to product in core Java using OOP concept of development and used MySQL as my database. Modelled database in such a way to store data and retrieve it back efficiently. To maintain proper code reusability and making decoupling of major components from each other I Implemented the complete project following MVC Architecture.

XML Parsers (DOM and SAX) are created to load the initial set of data to MySQL Database from XML.

Used Hibernate frame work to implement the ORM in an object-relational mapping, by providing mapping of object-oriented domain model to a relational database

There are two major roles in the project

- Doctor
- Patient Related by family

PART 2: MAIN MENU THE ROLES – (PLANNING PHASE)

❖ Doctor

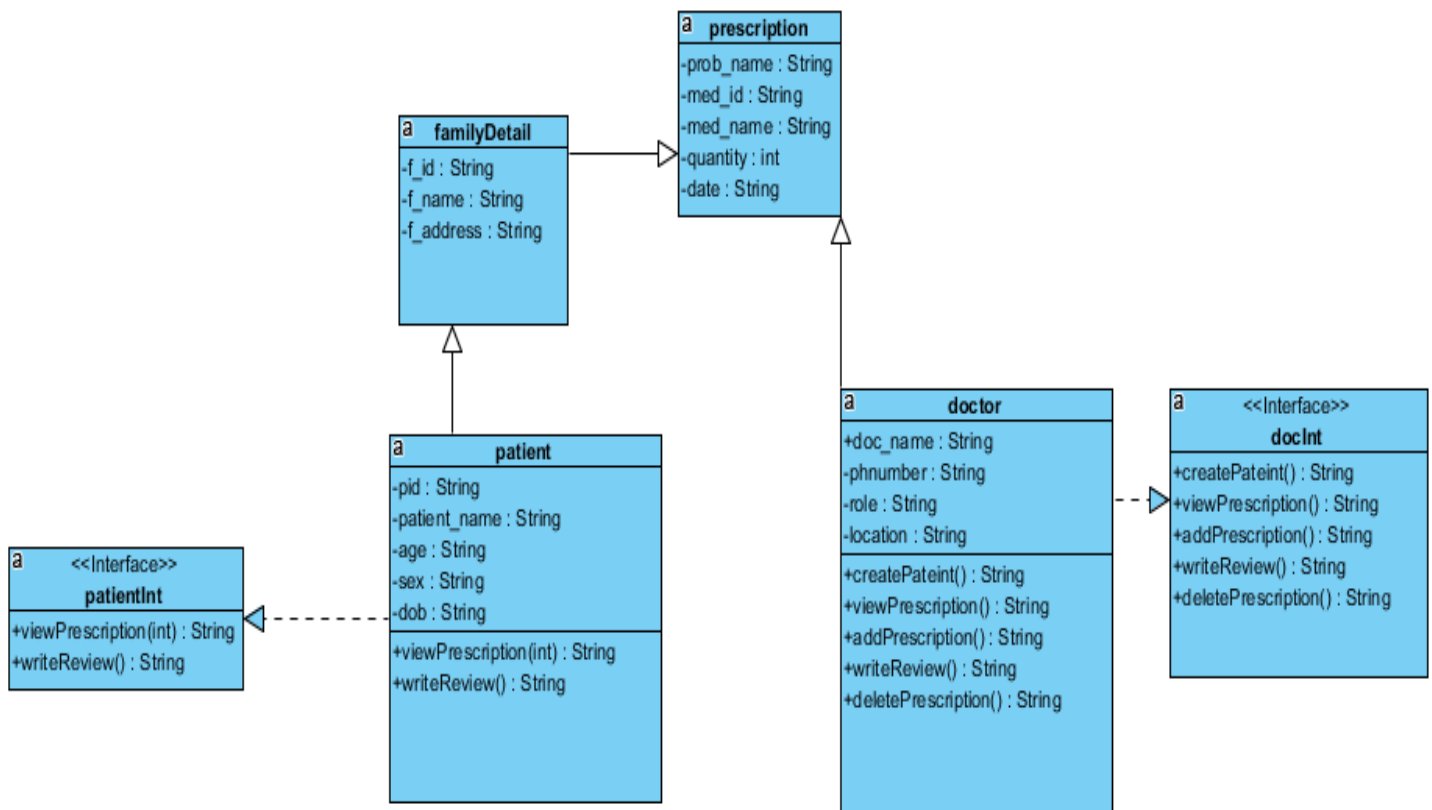
- login
- create patient record
- update patient prescription
- view the prescription

- create treatment details
- logout
- ❖ Patient
 - login
 - view prescription
 - view family member prescription
 - write Review medicine
 - logout

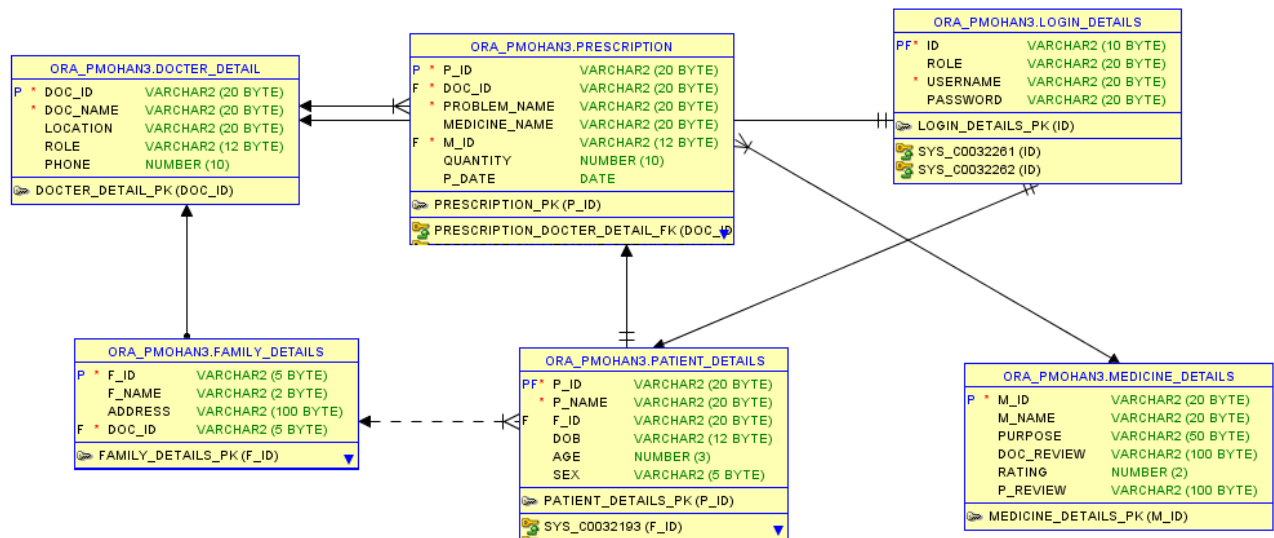
PART 3: CLASS DESCRIPTION – (PLANNING PHASE)

- Prescription is the parent class which has the child class which inherits the properties this class.
- DocInt is the interface which implemented by the doctor and the PatientInt interface is implemented by the patient class
- Prescription class is the parent class which is used to find the patient details which is inherited by the doctor and patient class
 - prescriptionDetail()
- methods in doctor class will create patient, add prescription, review medicine
 - selectPatient()
 - prescriptionDetail()
 - createPatient()
 - addPrescription()
 - writeReview()
 - deletePrescription()
 - viewReview()
- methods in patient class will view prescription, contact doctor, write review for medicine
 - selectPatient()
 - prescriptionDetail()
 - viewPrescription()
 - writeReview()

PART 4: UML DIAGRAM – (DESIGN PHASE)

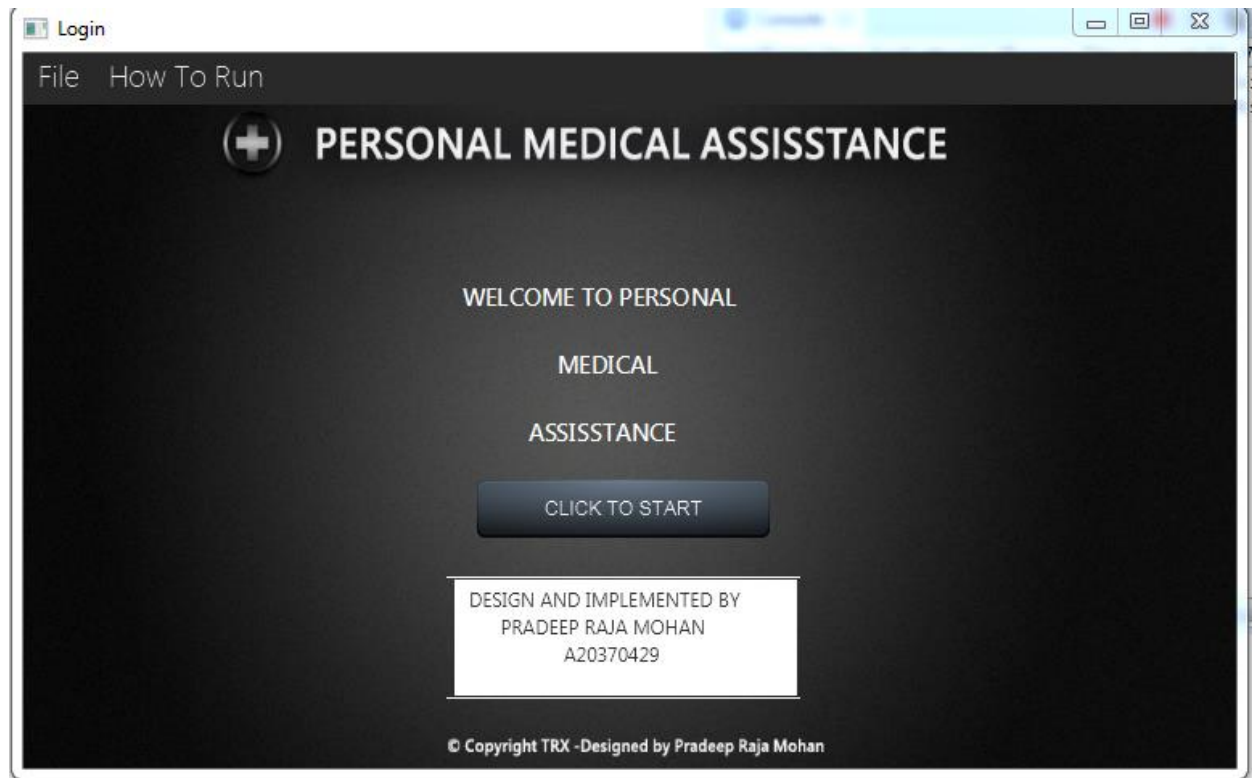


PART 6: ER DIAGRAM - (DESIGN PHASE)

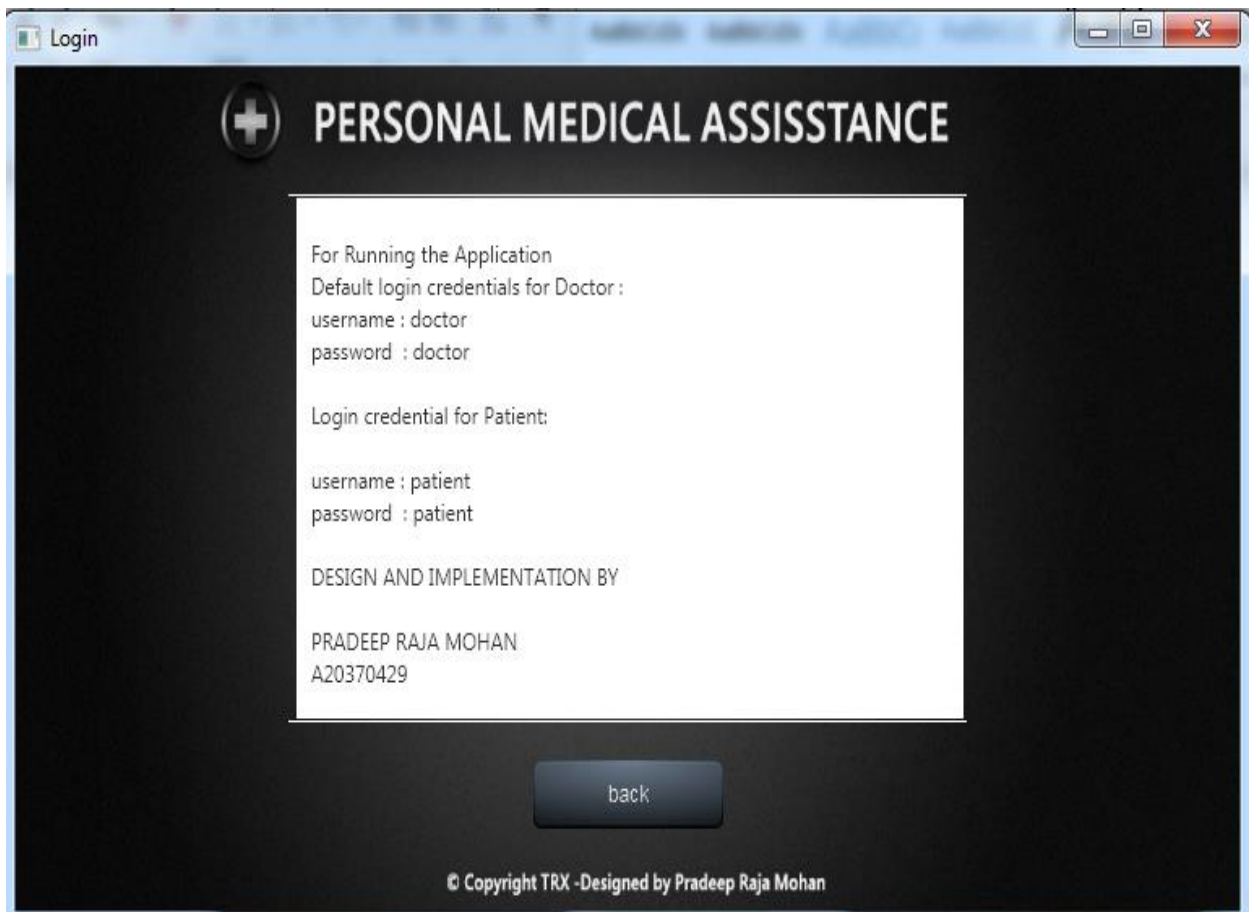


PART 5 : DEVELOPMENT PHASE

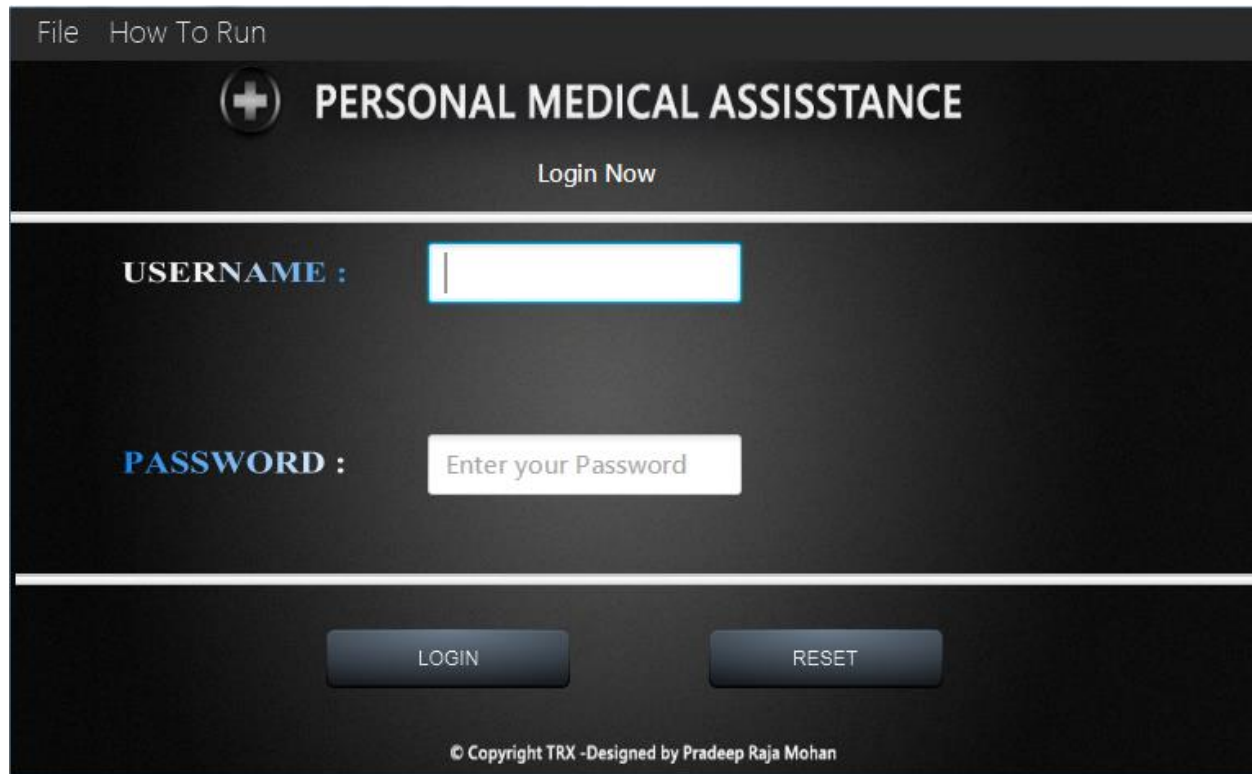
LOGIN SCREEN



HOW TO RUN



LOGIN SCREEN



The image shows a login screen for a web application titled "PERSONAL MEDICAL ASSISTANCE". The interface has a dark theme. At the top, there is a navigation bar with "File" and "How To Run" links. Below this, the application title "PERSONAL MEDICAL ASSISTANCE" is displayed in large white letters, preceded by a circular icon containing a white plus sign. Under the title, a "Login Now" link is visible. The main form area contains two input fields: "USERNAME :" followed by a white text box, and "PASSWORD :" followed by a white text box with the placeholder text "Enter your Password". At the bottom of the form, there are two buttons: "LOGIN" and "RESET". The footer of the screen displays the copyright notice: "© Copyright TRX - Designed by Pradeep Raja Mohan".

DOCTOR PORTAL

The screenshot shows a web application window titled "Home" with standard window controls. The interface has a dark theme. At the top, there is a "File" and "Help" menu bar. Below this is a header section with a plus icon in a circle and the text "PERSONAL MEDICAL ASSISTANCE". A welcome message "Welcome Doctor, d!!" is displayed. The main area contains several interactive elements: a "Patient ID" label above a text input field with the placeholder "patient ID to Add Medicine", a "Write Prescription" button, and a vertical stack of four buttons: "Add Patient", "View / Update Patients", "View / Delete Prescription", and "View Medicine Review". The footer displays the date "Date: 2016/05/06 03:39:04" and the copyright notice "© Copyright TRX -Designed by Pradeep Raja Mohan".

Home

File Help

PERSONAL MEDICAL ASSISTANCE

Welcome Doctor, d!!

Patient ID

patient ID to Add Medicine

Write Prescription

Add Patient

View / Update Patients

View / Delete Prescription

View Medicine Review

Date: 2016/05/06 03:39:04

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ADD PATIENT

ADD PATIENT

PERSONAL MEDICAL ASSISTANCE

FAMILY ID: 2230 (USE YOUR FAMILY ID)

FIRST NAME : patient

LAST NAME : patient

USERNAME : patient

PASSWORD : patient

DOB : 5/6/2008 AGE: 8

GENDER : ☒ MALE ☐ FEMALE

Done

RECORD RESET CLOSE

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Assignment

RECORD ADDED

ADD PATIENT

PERSONAL MEDICAL ASSISTANCE

FAMILY ID: 2230 (USE YOUR FAMILY ID)

FIRST NAME : patient

LAST NAME : patient

USERNAME :

PASSWORD :

DOB : 5/6/2008 AGE : 8

GENDER : ☒ MALE ☐ FEMALE

Message

Patient Record Added

OK

Done

RECORD **RESET** **CLOSE**

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VIEW PATIENTS



VIEW PRESCRIPTION

PERSONAL MEDICAL ASSISTANCE

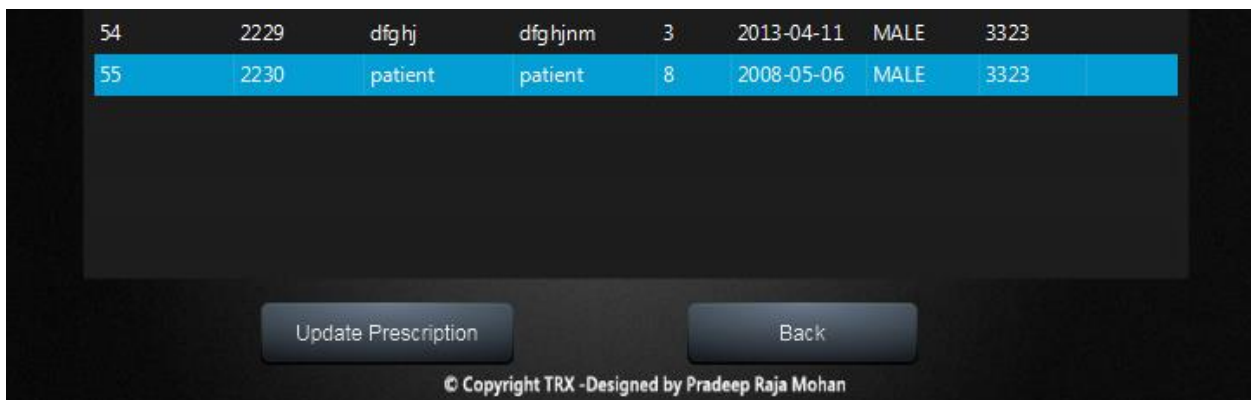
YOUR PATIENT LIST

PATIENT ID	FAMILY ID	FIRST NAME	LAST NAME	AGE	DOB	GENDER	DOC_ID
50	2227	geethu	ma	3	2013-04-10	MALE	3323
51	2227	prem	prem	3	2013-04-24	FEMALE	3323
52	2228	view	view	4	2012-04-18	MALE	3323
53	2228	show	show	1	2015-04-01	MALE	3323
54	2229	dfghj	dfghjnm	3	2013-04-11	MALE	3323
55	2230	patient	patient	8	2008-05-06	MALE	3323

Update Prescription Back

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UPDATE PRESCRIPTION FROM TABLE



54	2229	dfghj	dfghjnm	3	2013-04-11	MALE	3323
55	2230	patient	patient	8	2008-05-06	MALE	3323

Update Prescription Back

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PRESCRIPTION UPDATE

The image shows two overlapping windows from a medical application. The background window is titled 'VIEW PRESCRIPTION' and displays a table of patient data. The foreground window is titled 'ADD PATIENT' and contains a form for entering prescription details.

VIEW PRESCRIPTION Window:

PATIENT ID	FAMILY ID	FIRST NAME
50	2227	geethu
51	2227	prem
52	2228	view
53	2228	show
54	2229	dfghj
55	2230	patient

ADD PATIENT Window:

PERSONAL MEDICAL ASSISTANCE

PRESCRIPTION DETAILS

PATIENT NAME :

PROBLEM DESCRIPTION:

MEDICINES :

TIMINGS: ☒ Morning ☒ Afternoon ☒ Night

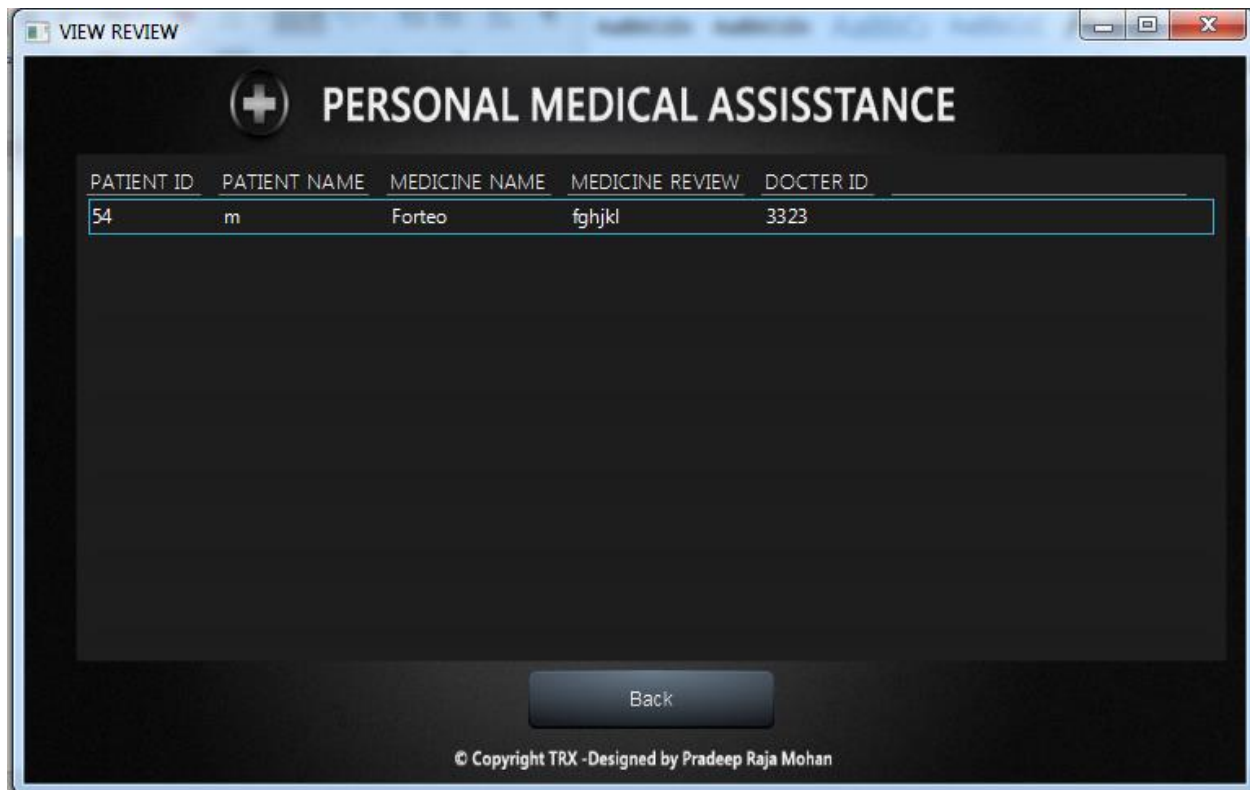
[Back](#)

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VIEW PRESCRIPTION



VIEW MEDICINE REVIEW



VIEW REVIEW

 PERSONAL MEDICAL ASSISTANCE

PATIENT ID	PATIENT NAME	MEDICINE NAME	MEDICINE REVIEW	DOCTER ID
54	m	Forteo	fghjkl	3323


Back

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WRITE PRESCRIPTION – ENTER PATIENT ID

The screenshot shows a mobile application interface for a medical professional. At the top, there is a dark header bar with 'File' and 'Help' options. Below this, a logo featuring a white cross inside a circle is followed by the text 'PERSONAL MEDICAL A'. A welcome message 'Welcome Doctor, doctor!!' is displayed. The main section is titled 'Patient ID' in bold. Below the title is a text input field containing the number '55'. Underneath the input field is a button labeled 'Write Prescription'. At the bottom of the screen, a status bar shows the date and time 'Date: 2016/04/30 13:47:03' and a copyright notice '© Copyright TRX -Designed by Pradeep'.

File Help

 **PERSONAL MEDICAL A**

Welcome Doctor, doctor!!

Patient ID

55

Write Prescription

Date: 2016/04/30 13:47:03

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DISPLAYING DETAILS OF THE PATIENT

ADD PATIENT

PERSONAL MEDICAL ASSISTANCE

PRESCRIPTION DETAILS

PATIENT NAME :

PROBLEM DESCRIPTION:

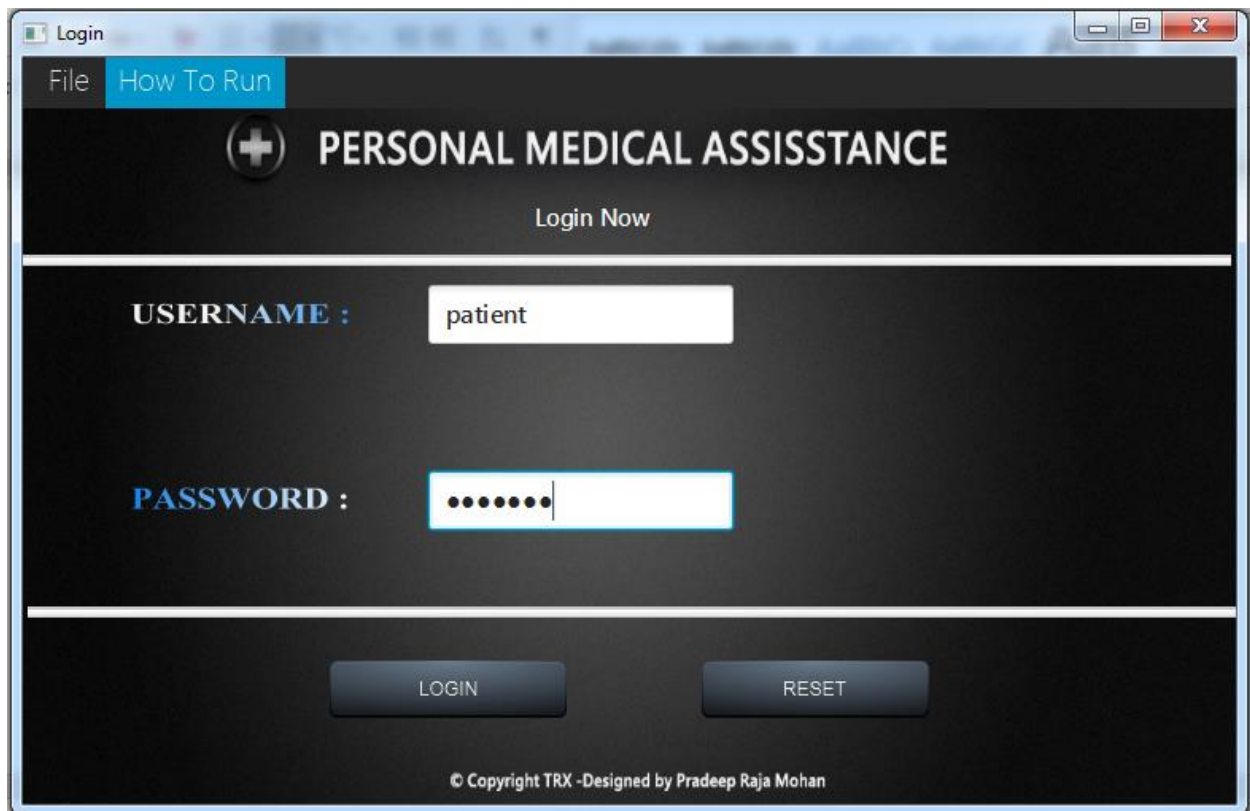
MEDICINES :

TIMINGS: ☒ Morning ☒ Afternoon ☐ Night

[Back](#)

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PATIENT LOGIN



The screenshot shows a web application window titled "Login". The interface has a dark theme. At the top, there is a menu bar with "File" and "How To Run". Below the menu bar, there is a header section with a plus icon in a circle and the text "PERSONAL MEDICAL ASSISTANCE". Underneath the header, there is a "Login Now" link. The main form area contains two input fields: "USERNAME :" with the value "patient" and "PASSWORD :" with masked characters (dots). Below the input fields, there are two buttons: "LOGIN" and "RESET". At the bottom of the window, there is a copyright notice: "© Copyright TRX -Designed by Pradeep Raja Mohan".

File How To Run

PERSONAL MEDICAL ASSISTANCE

Login Now

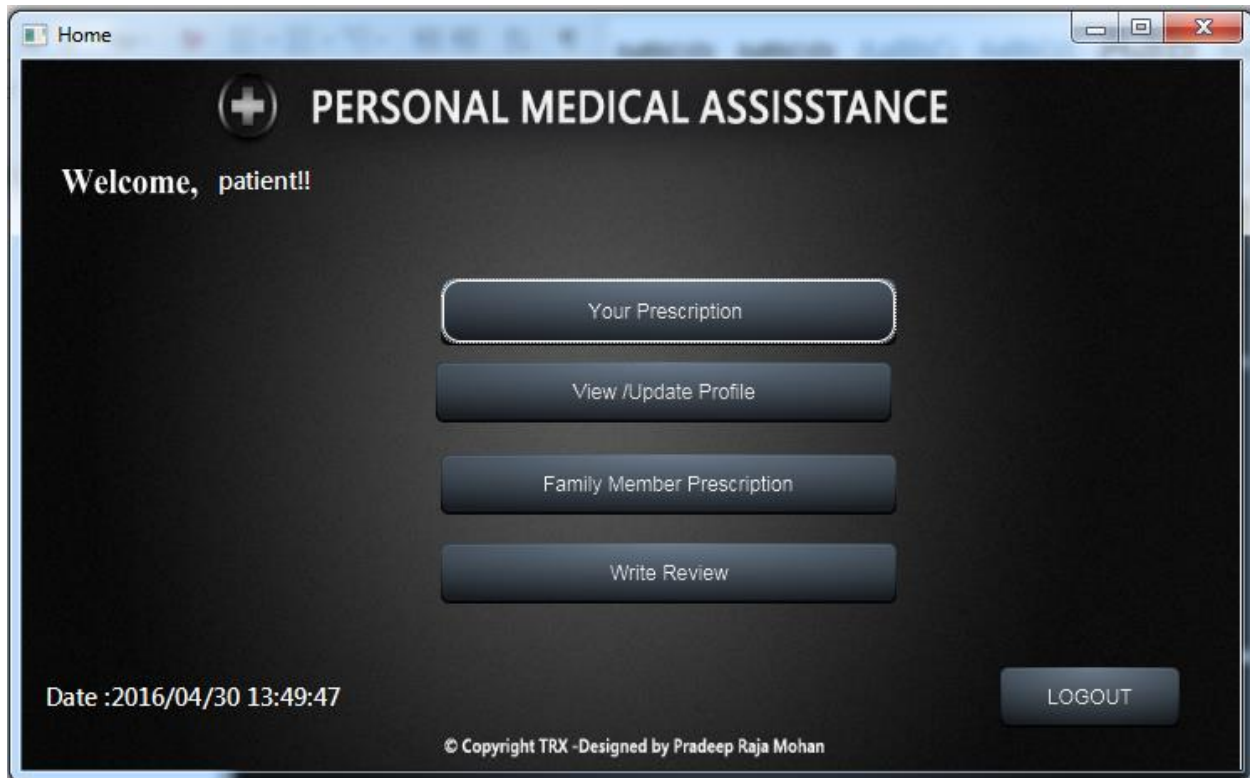
USERNAME : patient

PASSWORD :

LOGIN RESET

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PATIENT INTERFACE



VIEW YOUR PRESCRIPTION



VIEW UPDATE PROFILE

VIEW PROFILE

PERSONAL MEDICAL ASSISTANCE

VIEW PROFILE / UPDATE PROFILE

ID : 55

First Name : patient

Last Name: patient

DOB : 4/26/2013

Age : 3

Gender : ☒ MALE ☐ FEMALE

Update reset BACK

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UPDATE DONE

VIEW PROFILE

PERSONAL MEDICAL ASSISTANCE

VIEW PROFILE / UPDATE PROFILE

ID : 55

First Name : patient

Last Name: patient

DOB

Age

Gender : ☐ MALE ☐ FEMALE

Update reset BACK

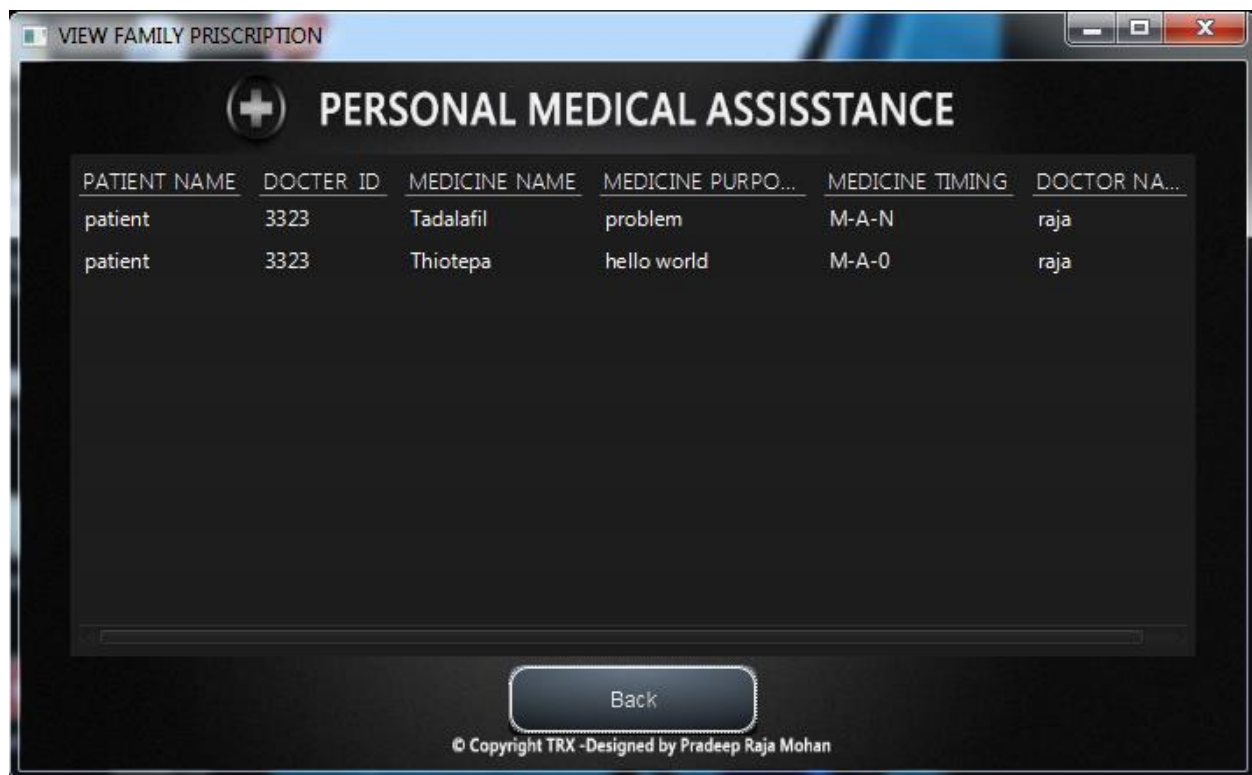
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Message

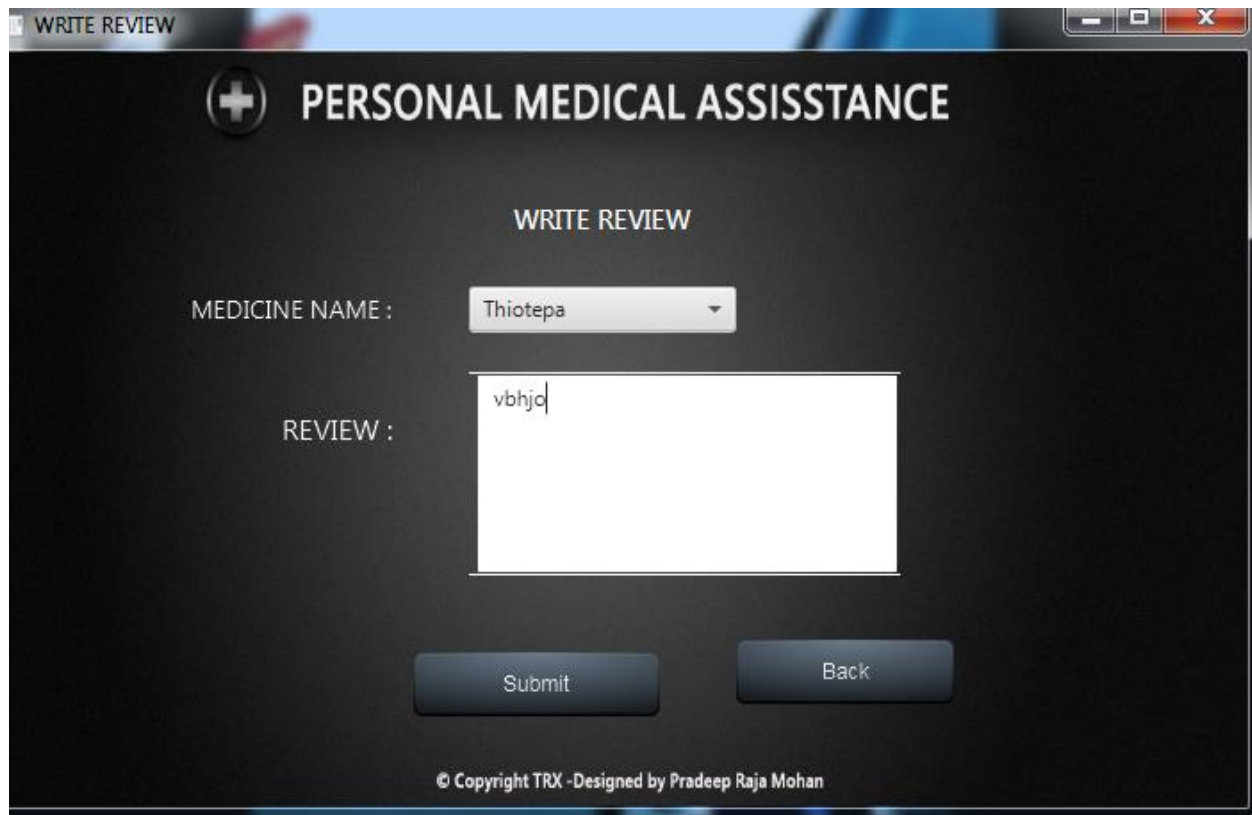
Update done

OK

VIEW FAMILY PRESCRIPTION



WRITE REVIEW



The screenshot shows a web application window titled "WRITE REVIEW". The window has a dark background with a white plus icon in a circle at the top left. The main heading is "PERSONAL MEDICAL ASSISTANCE". Below this, the text "WRITE REVIEW" is centered. The form contains two main sections: "MEDICINE NAME :" with a dropdown menu showing "Thiotepa", and "REVIEW :" with a large text area containing the text "vbhjo". At the bottom, there are two buttons: "Submit" and "Back". A copyright notice at the very bottom reads "© Copyright TRX - Designed by Pradeep Raja Mohan".

WRITE REVIEW

PERSONAL MEDICAL ASSISTANCE

WRITE REVIEW

MEDICINE NAME : Thiotepa

REVIEW : vbhjo

Submit Back

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Assignment

VALIDATIONS :

USERNAME AND PASSWORD VALIDATION

The screenshot shows a web application window titled 'Home' with a menu bar containing 'File' and 'How To Run'. The main header area has a dark background with a white plus icon in a circle and the text 'PERSONAL MEDICAL ASSISTANCE'. Below the header is a 'Login Now' button. The form area has a dark background with two input fields. The first field is labeled 'USERNAME :' and contains the placeholder text 'Enter Your Username'. To the right of this field is the text 'Username Cannot be empty or spaces'. The second field is labeled 'PASSWORD :' and contains a single dot. At the bottom of the form are two buttons: 'LOGIN' and 'RESET'. The footer text reads '© Copyright TRX -Designed by Pradeep Raja Mohan'.

The screenshot shows the same web application window as the previous one, but with a validation error. The 'USERNAME :' field now contains the letter 'D'. To the right of the field, the text 'ENTER A VALID USER NAME' is displayed. The 'PASSWORD :' field still contains a single dot. The 'LOGIN' and 'RESET' buttons remain at the bottom. The footer text remains '© Copyright TRX -Designed by Pradeep Raja Mohan'.

CUSTOMER ADDING

ADD PATIENT

PERSONAL MEDICAL ASSISTANCE

FAMILY ID: 2237 (USE YOUR FAMILY ID)

FIRST NAME : enter your first name

LAST NAME : lastName cannot be empty

USERNAME : username cannot be empty

PASSWORD : password cannot be empty

DOB : AGE :

GENDER : ☒ MALE ☐ FEMALE

☒ Done

RECORD RESET CLOSE

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