

# Personal Medical Assistance

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**Date: 04/07/2016**

# 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

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

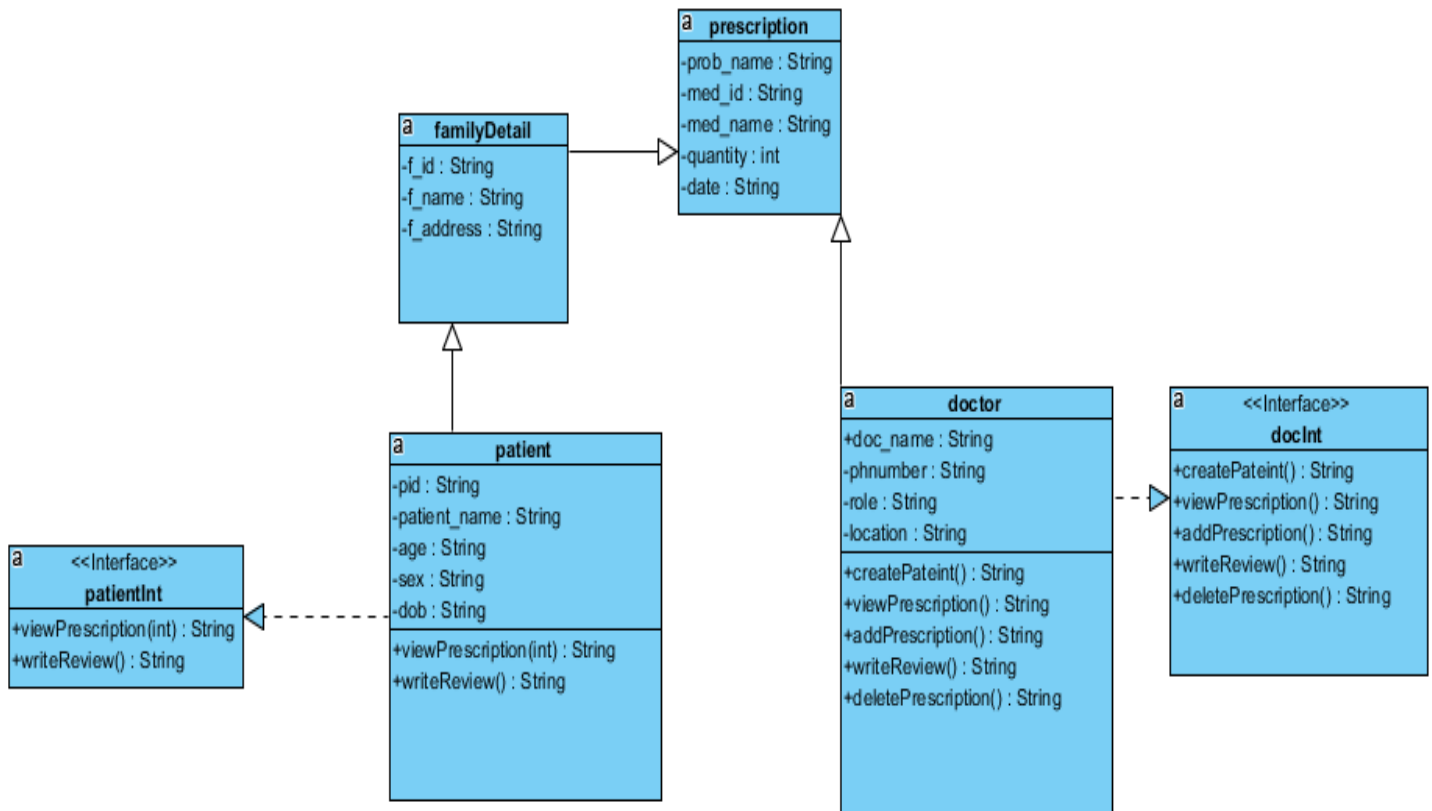
## ❖ Patient

- login
- view prescription
- view family member prescription
- write Review medicine
- logout

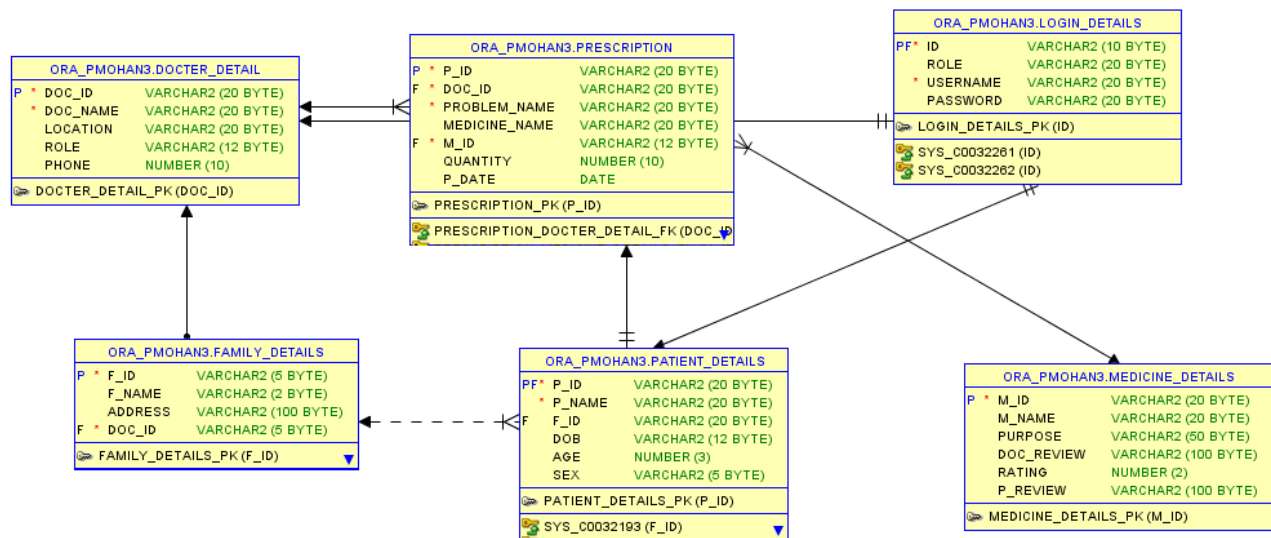
### PART 3: CLASS DESCRIPTION – (PLANNING PHASE)

- 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)

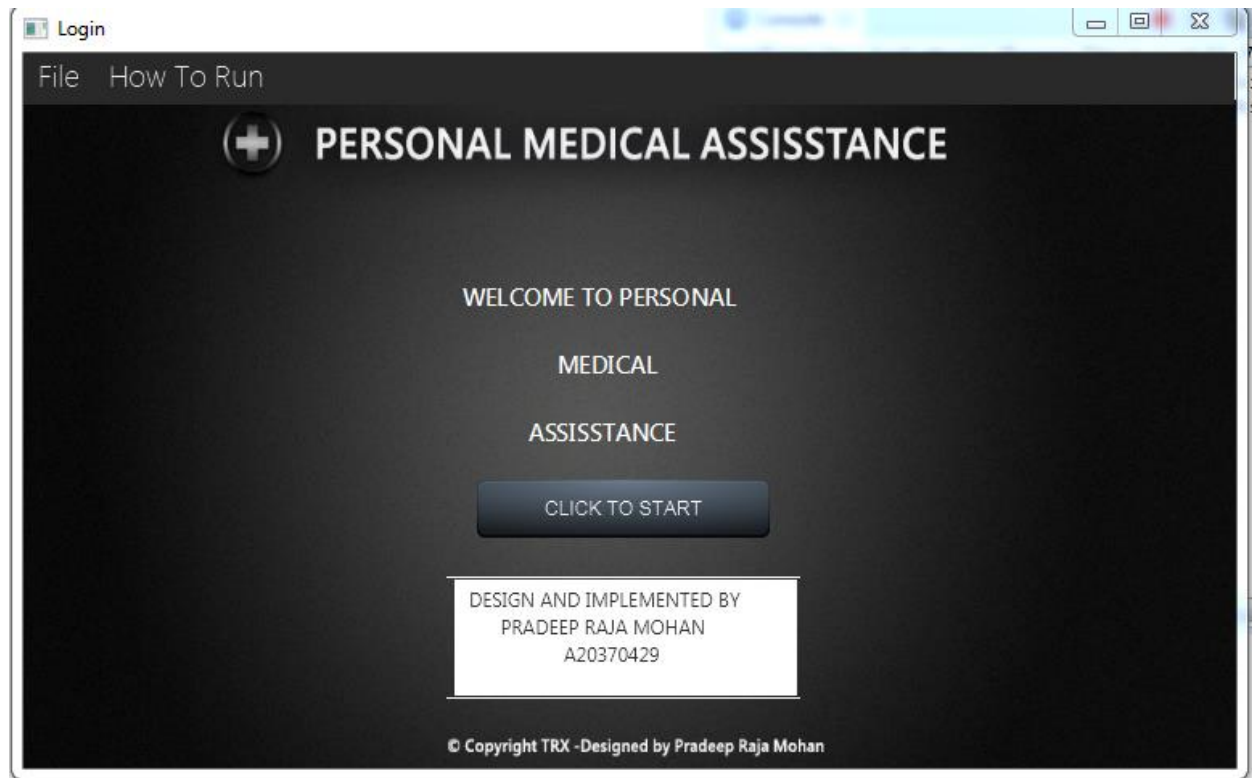


## PART 6: ER DIAGRAM - (DESIGN PHASE)



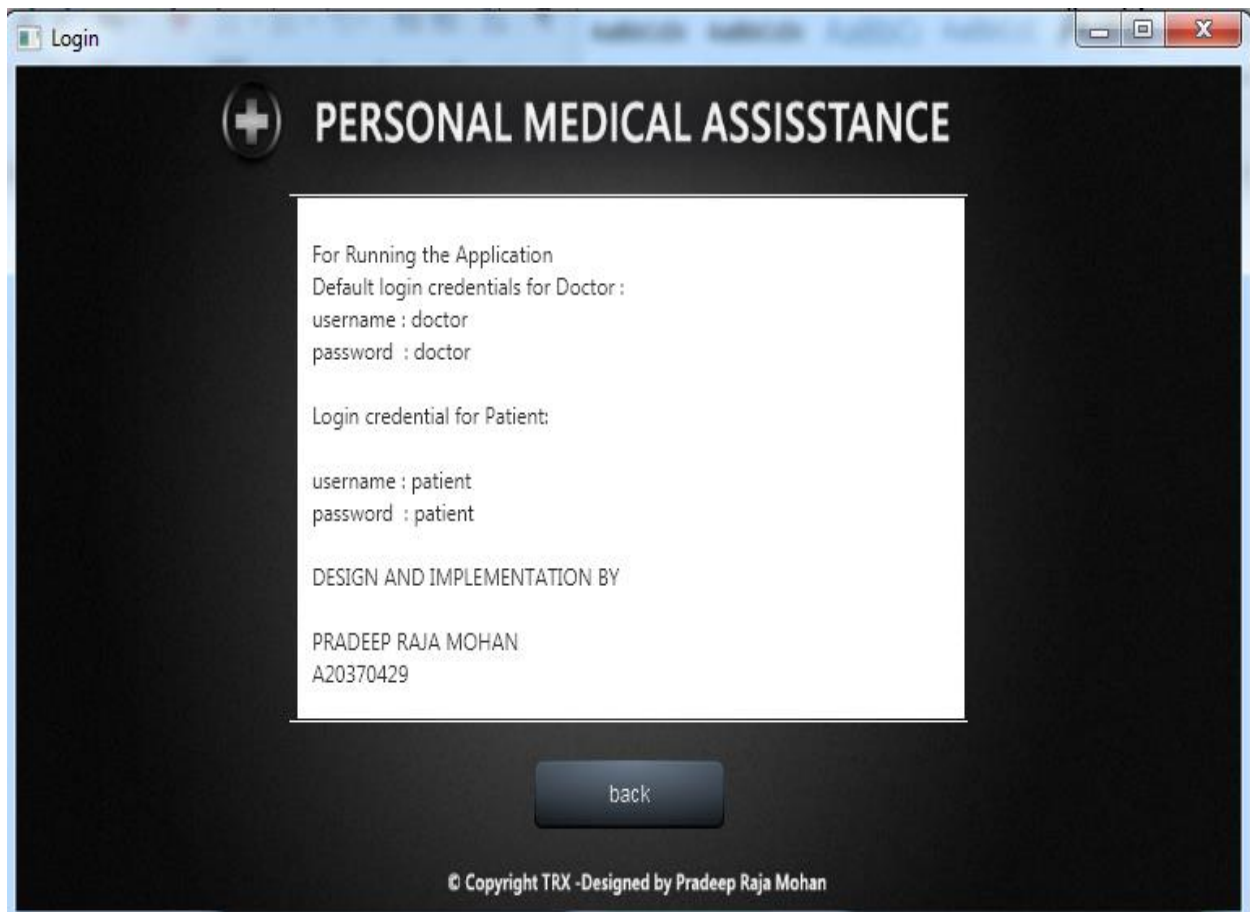
## PART 5 : DEVELOPMENT PHASE

### 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 white medical cross icon. 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 contains the copyright notice "© Copyright TRX - Designed by Pradeep Raja Mohan".

File How To Run

 **PERSONAL MEDICAL ASSISTANCE**

Login Now

**USERNAME :**

**PASSWORD :**

LOGIN RESET


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## DOCTOR PORTAL

The screenshot shows a web browser window titled "Home" with a menu bar containing "File" and "Help". The main content area has a dark background and features a medical cross icon followed by the title "PERSONAL MEDICAL ASSISTANCE". Below the title, it says "Welcome Doctor, d!!". On the left, there is a section titled "Patient ID" with a text input field containing "patient ID to Add Medicine" and a "Write Prescription" button. On the right, there are four buttons: "Add Patient", "View / Update Patients", "View / Delete Prescription", and "View Medicine Review". At the bottom, the date "Date: 2016/05/06 03:39:04" is displayed, along with a 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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## Assignment

## 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

Done

RECORD RESET CLOSE

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Message

Patient Record Added

OK

## VIEW PATIENTS

The screenshot shows a software window titled 'VIEW PRESCRIPTION'. Inside, there's a dark-themed interface with a medical cross icon and the text 'PERSONAL MEDICAL ASSISTANCE'. Below this is a section titled 'YOUR PATIENT LIST' containing a table with 8 columns: PATIENT ID, FAMILY ID, FIRST NAME, LAST NAME, AGE, DOB, GENDER, and DOC\_ID. The table lists six patients. At the bottom of the window are two buttons: 'Update Prescription' and 'Back'. A copyright notice '© Copyright TRX - Designed by Pradeep Raja Mohan' is at the very bottom.

| 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

This screenshot shows a similar interface to the previous one, but with a table containing only two rows of patient data. The second row, for patient ID 55, is highlighted in blue. The interface includes the same 'Update Prescription' and 'Back' buttons and the copyright notice at the bottom.

|    |      |         |         |   |            |      |      |
|----|------|---------|---------|---|------------|------|------|
| 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 adding a new patient.

**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





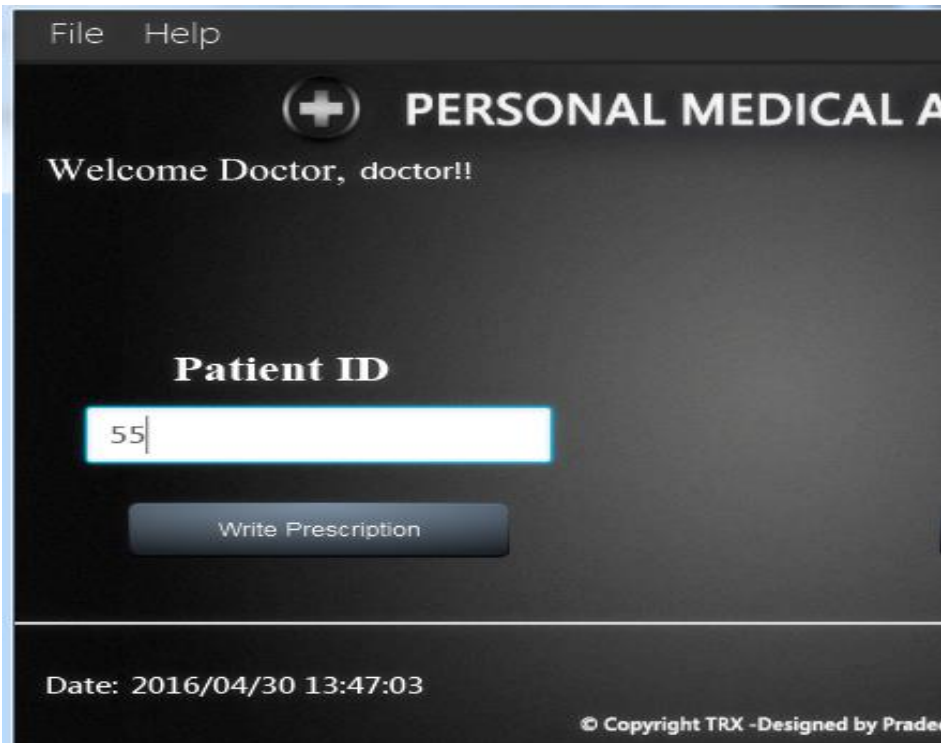
## VIEW MEDICINE REVIEW

| 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 circular icon with a white cross 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

© Copyright TRX -Designed by Pradeep

## DISPLAYING DETAILS OF THE PATIENT

ADD PATIENT

**PERSONAL MEDICAL ASSISTANCE**

PRESCRIPTION DETAILS

PATIENT NAME :

PROBLEM DESCRIPTION:

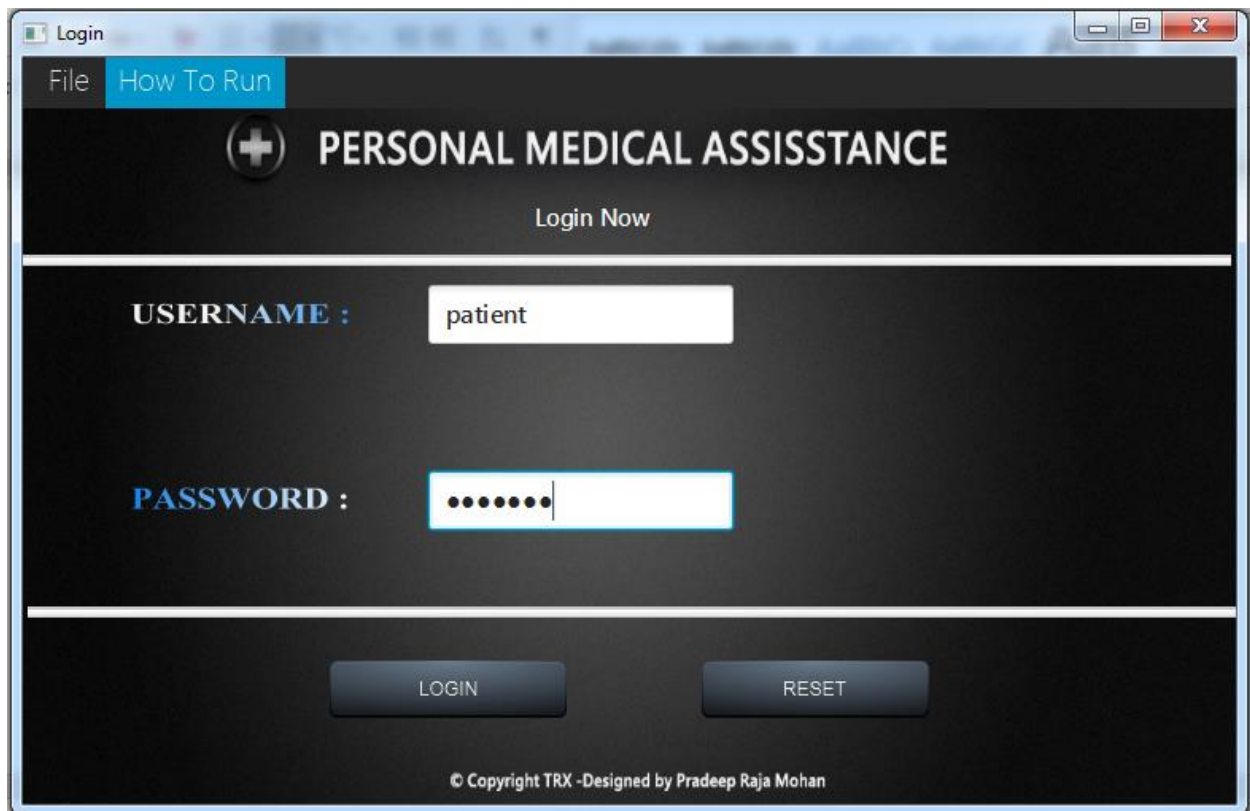
MEDICINES :

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

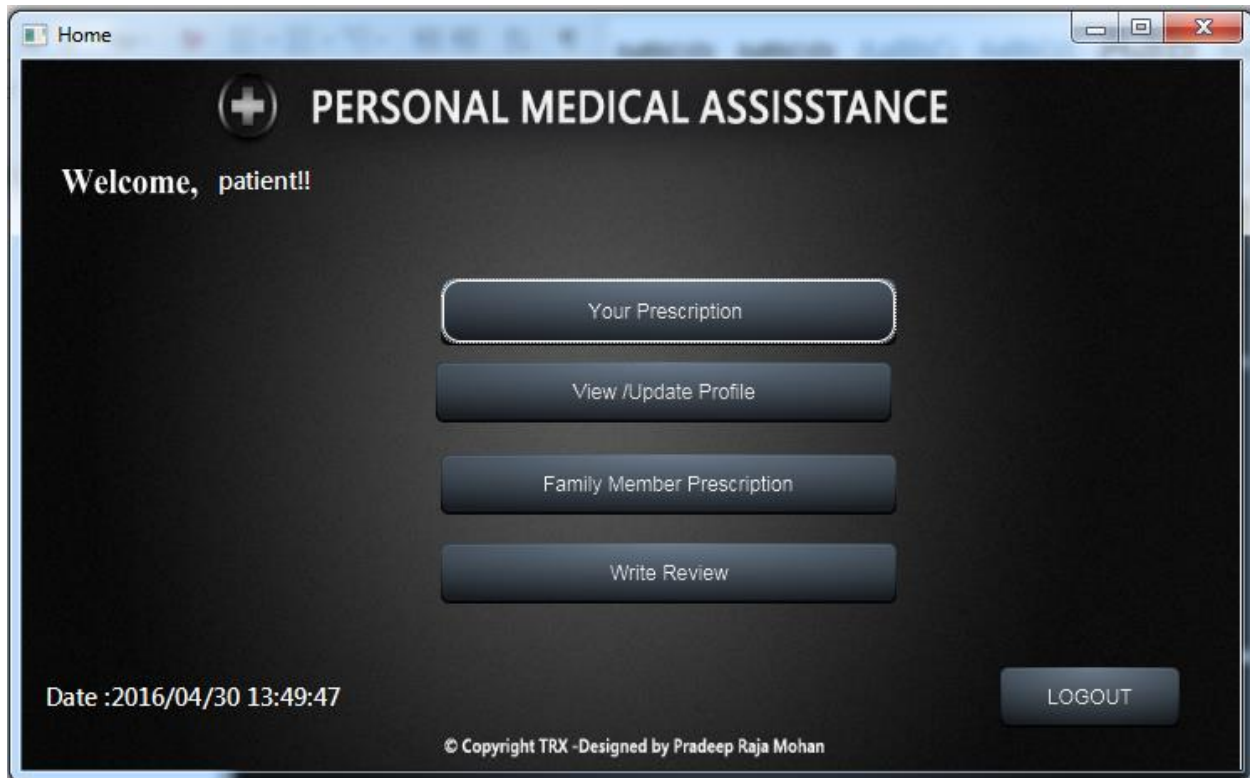
USERNAME : patient

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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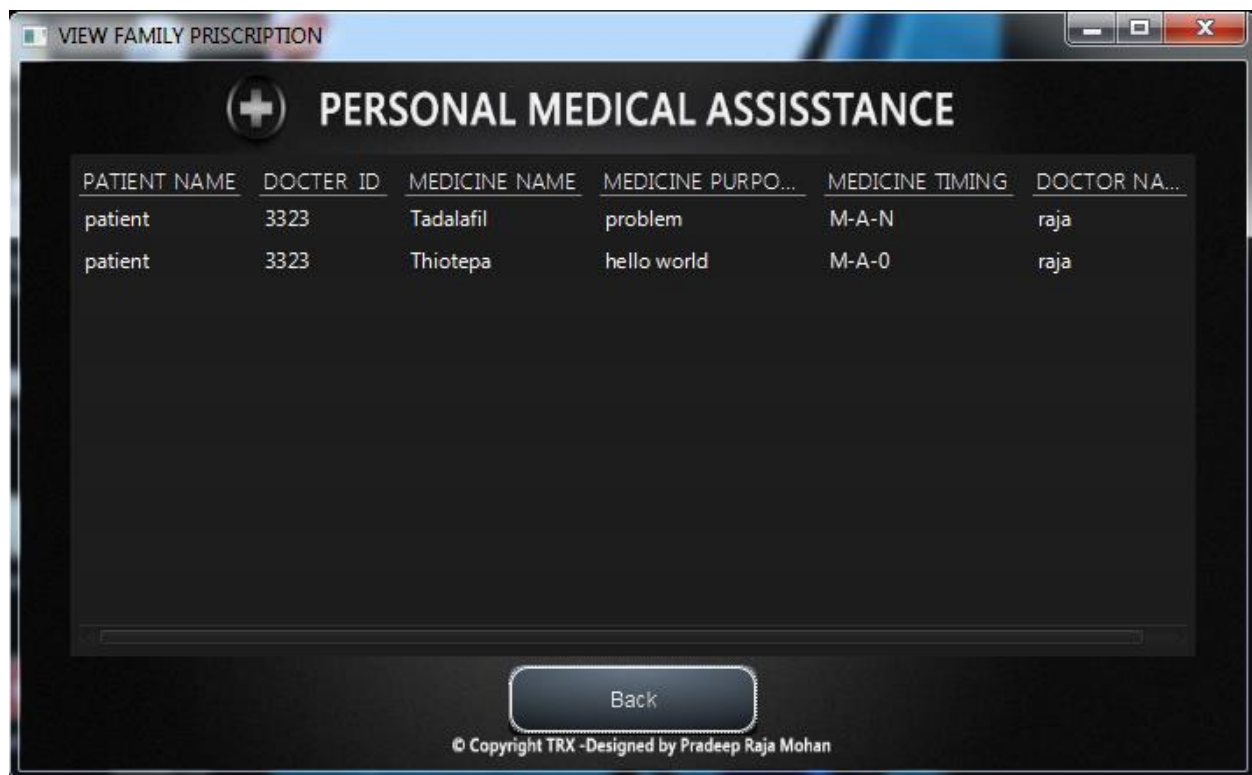
Message

Update done

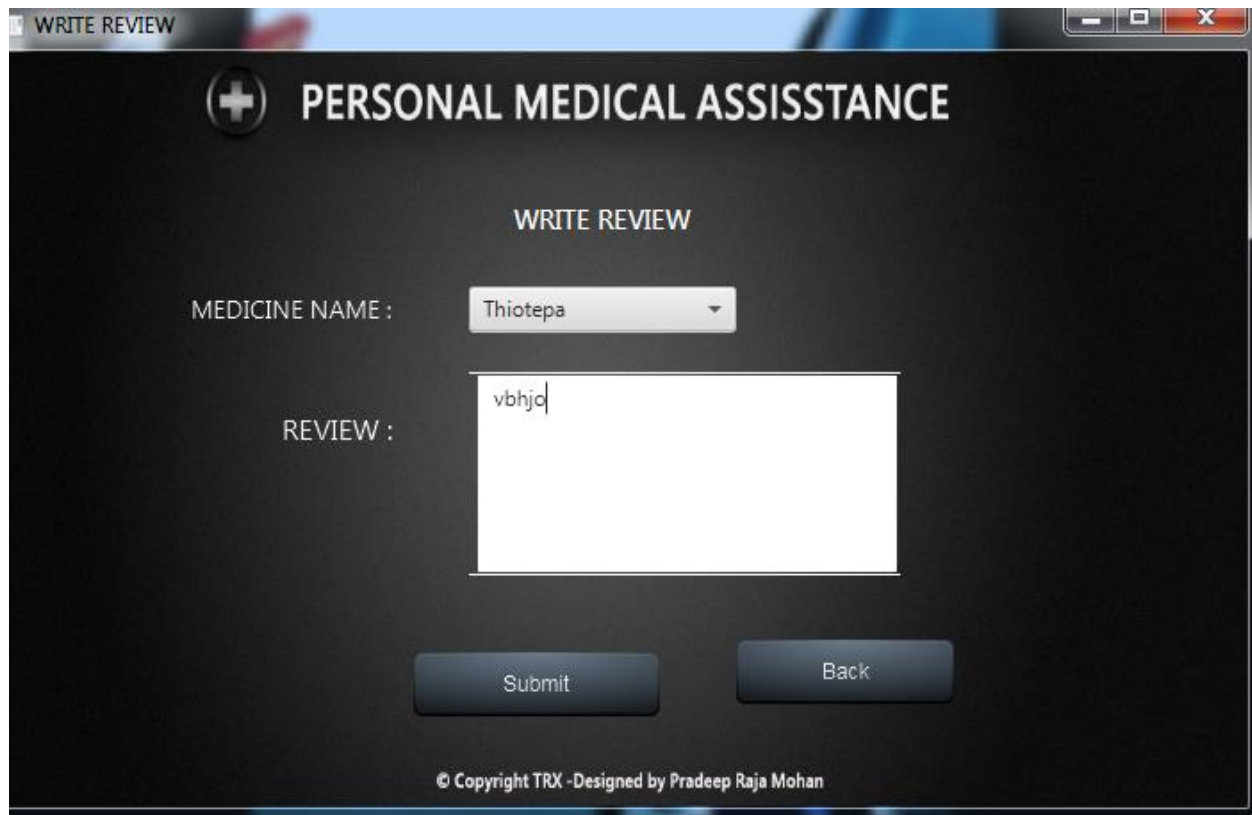
OK



## VIEW FAMILY PRESCRIPTION



## WRITE REVIEW



The screenshot shows a software window titled "WRITE REVIEW" with a dark background. At the top left is a white medical cross icon. To its right, the text "PERSONAL MEDICAL ASSISTANCE" is displayed in large, white, uppercase letters. Below this, the title "WRITE REVIEW" appears in a smaller white font. The form contains two main input sections: "MEDICINE NAME :" followed by a dropdown menu showing "Thiotepa", and "REVIEW :" followed by a large white text area containing the text "vbhjo". At the bottom of the window are two buttons: "Submit" and "Back". A copyright notice "© Copyright TRX - Designed by Pradeep Raja Mohan" is located at the very bottom of the window.

WRITE REVIEW

PERSONAL MEDICAL ASSISTANCE

WRITE REVIEW

MEDICINE NAME : Thiotepa

REVIEW : vbhjo

Submit Back

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## Assignment

## VALIDATIONS :

## USERNAME AND PASSWORD VALIDATION

A screenshot of a web application window titled 'Home' with a menu bar containing 'File' and 'How To Run'. The main header features a plus icon in a circle followed by the text 'PERSONAL MEDICAL ASSISTANCE'. Below the header is a 'Login Now' link. The form has two input fields: 'USERNAME :' with a placeholder 'Enter Your Username' and a validation message 'Username Cannot be empty or spaces'; and 'PASSWORD :' with a masked input field. At the bottom are 'LOGIN' and 'RESET' buttons, and a footer with the copyright notice '© Copyright TRX -Designed by Pradeep Raja Mohan'.

A screenshot of the same web application window, but with a validation error. The 'USERNAME :' field now contains the letter 'D', and a red error message 'ENTER A VALID USER NAME' is displayed to its right. The 'PASSWORD :' field remains masked. The 'LOGIN' and 'RESET' buttons and the footer are still present.

## 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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