



Premier Care Hospital

"Where you Come First"

PROJECT DOCUMENTATION

Daniel Caesar

Daniel Elliot

Amirah Muhammad

Yohance Henry

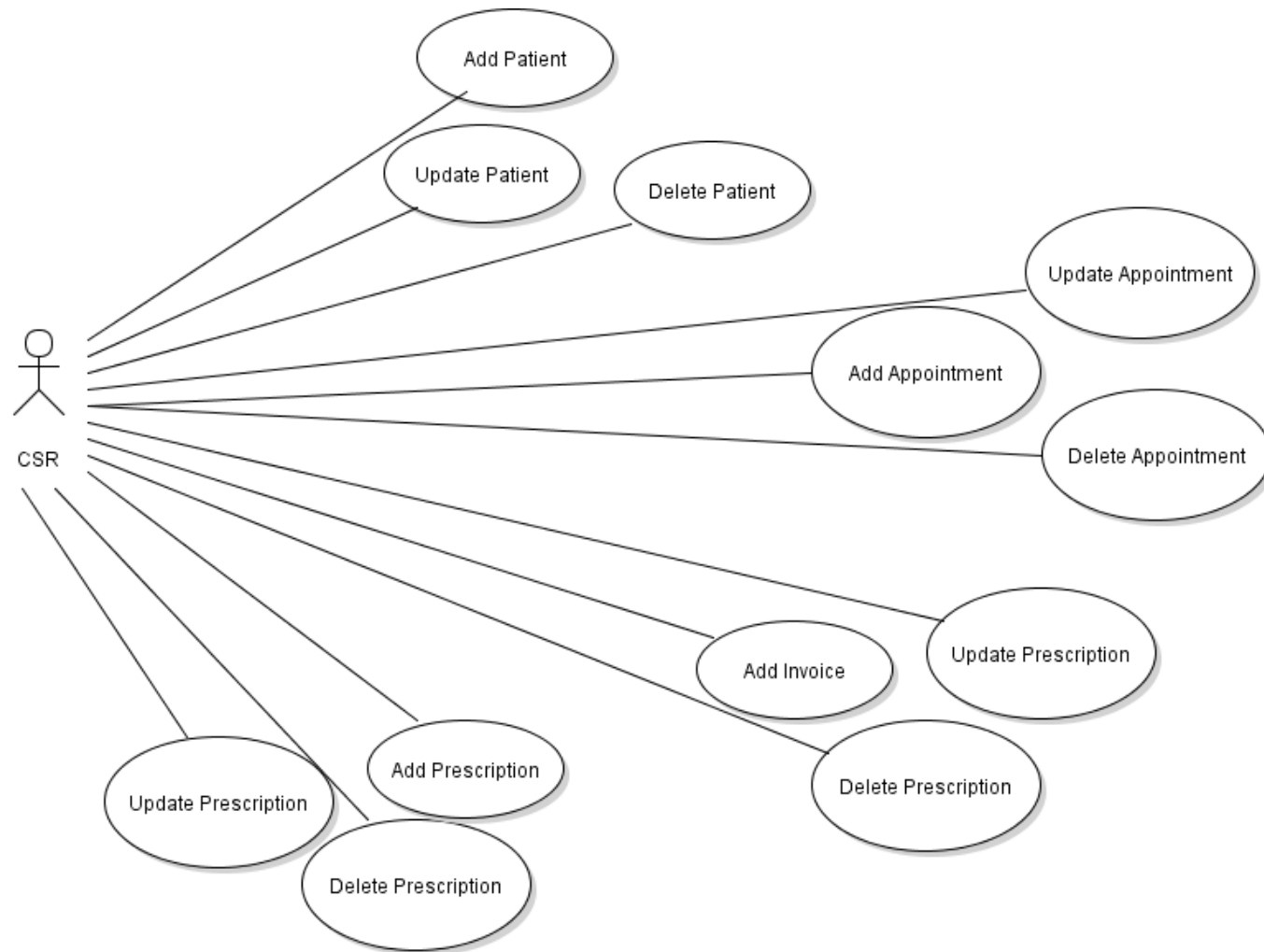
Non-FUNCTIONAL REQUIREMENTS

- Must be scalable (should be able to add additional components easily).
- Must be lightweight (produce full functionality and performance on low-spec devices).
- Must be able to store all data inputted into the system.
- System should be able to be easily updated by administrative staff.

FUNCTIONAL REQUIREMENTS

- Adding patient data with unique patient number.
- Appointments must be made.
- Details of nurses, x-ray and lab technicians must be recorded.
- There are six categories of services with different unit costs: Pediatrics, GP, specialist lab, therapy and x-ray.
- Must record the drugs a patient must take along with the number of times per day and the length of time it must be taken for.
- The cost of drugs must be recorded.
- System must track a patient's treatment and system must be capable of calculating the cost of treatment to provide itemized billing.
- Billing invoices must be generated for every visit a customer has. Must provide a detailed list of services used during the visit.

USE CASE DIAGRAM



ER DIAGRAM

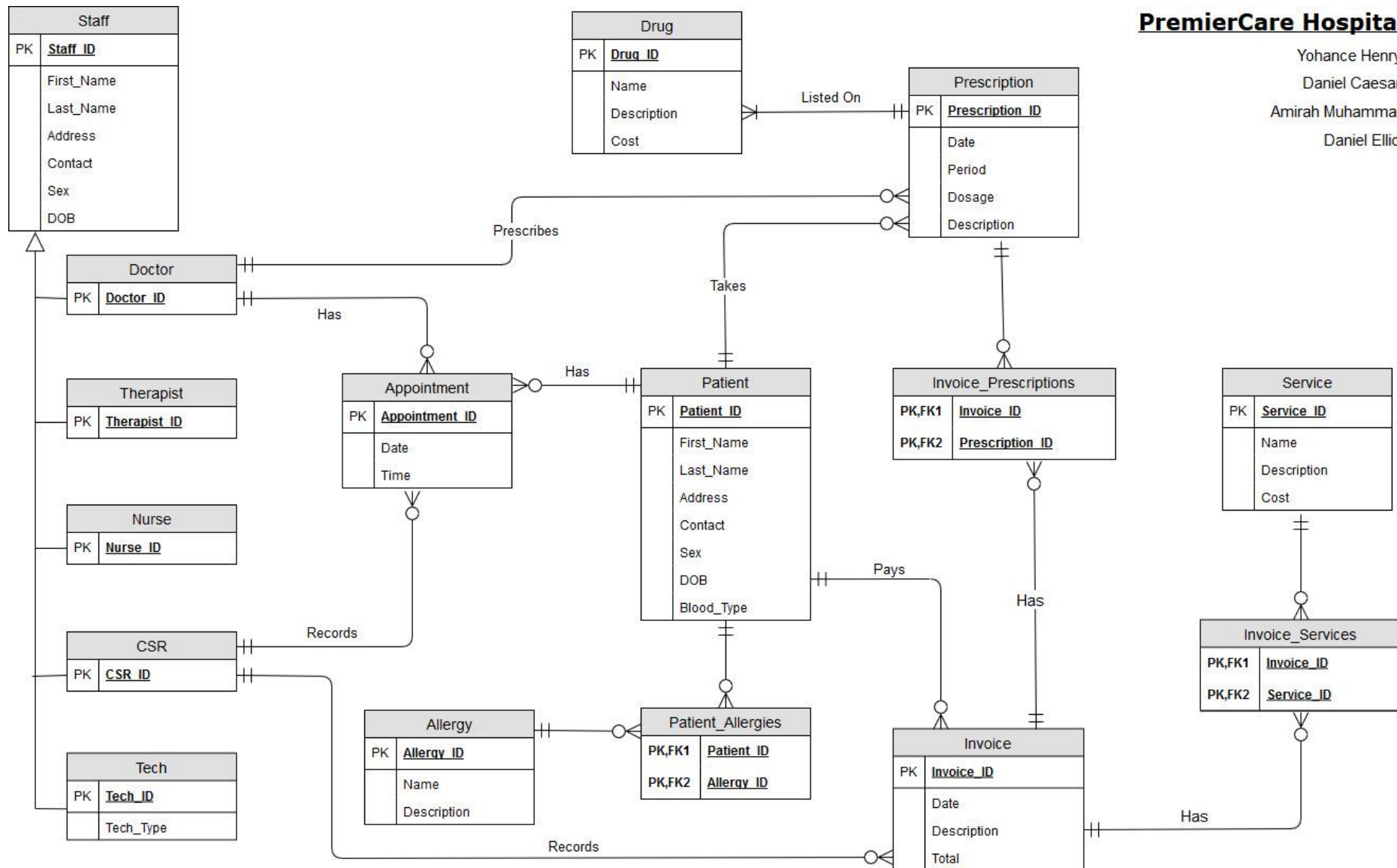
PremierCare Hospital

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RELATIONAL MODEL

Staff (Staff_ID, First_Name, Last_Name, Address, Contact, Sex, DOB)

Primary key: Staff_ID

Doctor (Doctor_ID, Staff_ID)

Primary key: Doctor_ID

Foreign key: Staff_ID references Staff (Staff_ID)

Therapist (Therapist_ID, Staff_ID)

Primary key: Therapist_ID

Foreign key: Staff_ID references Staff (Staff_ID)

Nurse (Nurse_ID, Staff_ID)

Primary key: Nurse_ID

Foreign key: Staff_ID references Staff (Staff_ID)

RELATIONAL MODEL (CONT'D)

CSR (CSR_ID, Staff_ID)

Primary key: CSR_ID

Foreign key: Staff_ID references Staff (Staff_ID)

Tech (Tech_ID, Staff_ID, Tech_Type)

Primary key: Tech_ID

Foreign key: Staff_ID references Staff (Staff_ID)

Appointment (Appointment_ID, Patient_ID, Doctor_ID, CSR_ID, Service_ID, Date, Time)

Primary key: Appointment_ID

Foreign keys: Patient_ID references Patient (Patient_ID)

Doctor_ID references Doctor (Doctor_ID)

CSR_ID references CSR (CSR_ID)

Service_ID references Service (Service_ID)

Patient (Patient_ID, First_Name, Last_Name, Address, Contact, Sex, DOB, Blood_Type)

Primary key: Patient_ID

RELATIONAL MODEL (CONT'D)

Patient_Allergies (Patient_ID, Allergy_ID)

Primary keys: Patient_ID, Allergy_ID

Foreign keys: Patient_ID references Patient (Patient_ID)

Allergy_ID references Allergy (Allergy_ID)

Allergy (Allergy_ID, Name, Description)

Primary key: Allergy_ID

Prescription (Prescription_ID, Doctor_ID, Patient_ID, Drug_ID, Date, Period, Dosage, Description)

Primary key: Prescription_ID

Foreign keys: Doctor_ID references Doctor (Doctor_ID)

Patient_ID references Patient (Patient_ID)

Drug_ID references Drug (Drug_ID)

Invoice_Prescriptions (Invoice_ID, Prescription_ID)

Primary keys: Invoice_ID, Prescription_ID

Foreign keys: Invoice_ID references Invoice (Invoice_ID)

Prescription_ID references Prescription (Prescription_ID)

RELATIONAL MODEL (CONT'D)

Invoice (Invoice_ID, CSR_ID, Patient_ID, Date, Description, Total)

Primary key: Invoice_ID

Foreign keys: CSR_ID references CSR (CSR_ID)

Patient_ID references Patient (Patient_ID)

Invoice_Services (Invoice_ID, Service_ID)

Primary keys: Invoice_ID, Service_ID

Foreign keys: Invoice_ID references Invoice (Invoice_ID)

Service_ID references Service (Service_ID)

Service (Service_ID, Name, Description, Cost)

Primary key: Service_ID

Drug (Drug_ID, Name, Description, Cost)

Primary key: Drug_ID

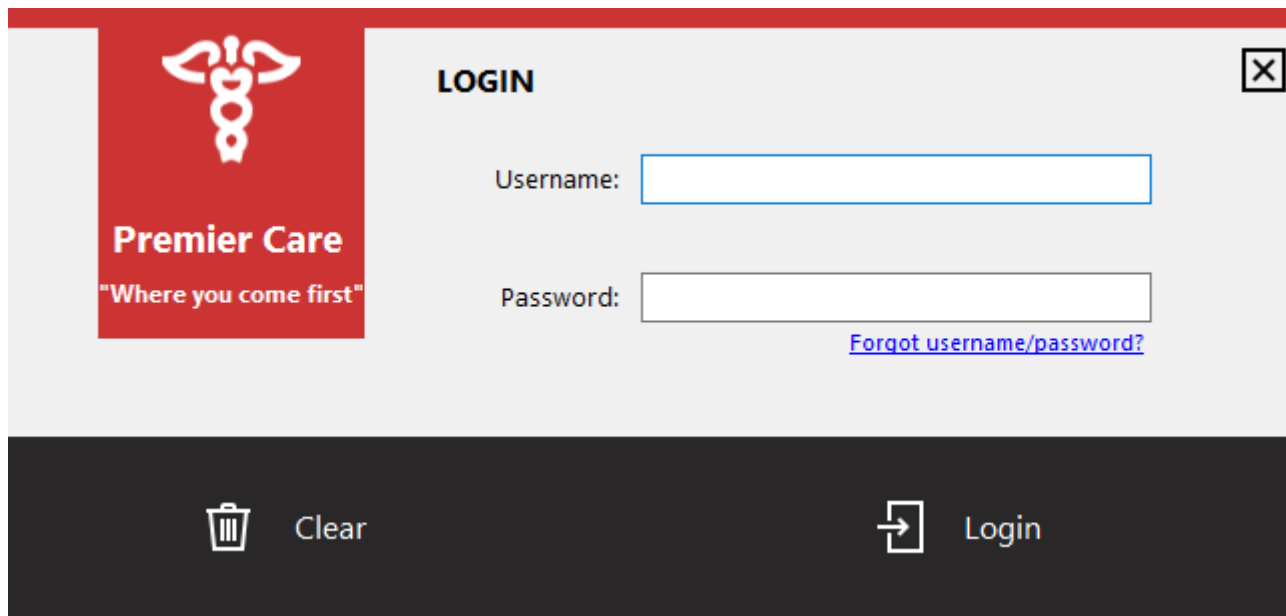
PREMIER CARE SCREENSHOTS

LOGIN SCREEN

The Login screen is displayed on program execution.

The default username is 'admin'. Password is '123'.


The program displays an error to the user if username or password is incorrect.







The screenshot shows the Premier Care login interface. On the left, a red vertical banner features a white caduceus icon, the text "Premier Care", and the tagline "Where you come first". The main area is light gray and titled "LOGIN" in bold black text. It contains two input fields: "Username:" and "Password:". Below the password field is a blue hyperlink that reads "Forgot username/password?". At the bottom, a dark gray bar contains two buttons: "Clear" with a trash can icon and "Login" with a right-pointing arrow icon. A small window control button (a square with an 'X') is located in the top right corner of the login area.

PATIENT INFORMATION

Full Create, Read, Update & Delete functionality for new and existing patients.



Premier Care
"Where you come first"

 Patient
  Appointment
  Prescription
  Invoice

PATIENT INFORMATION

Patient ID:

First Name:

Last Name:

Phone Number:

Address:

Date of Birth:

Sex:


Blood Type:

Add

Update

Delete

Clear

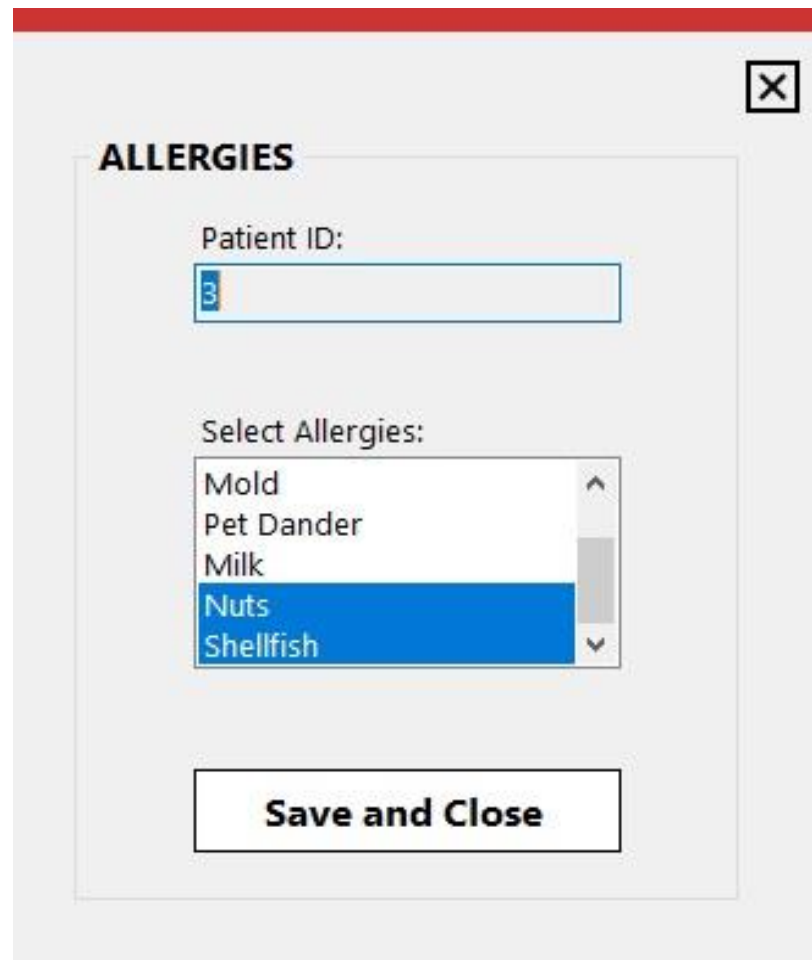
Find Patient: 

Patient_ID	First_Name	Last_Name	Address	Contact
6	Emilia	Clarke	Westminster, London, United Kingdom	444-8800
8	Lena	Headey	Hamilton, Bermuda	222-1212
11	Colm	Imbert	Diego Martin, Trinidad & Tobago	666-6660
16	Daniel	Caesar	Scarborough, Tobago	121-1111
17	Jon	Snow	Winterfell	123-7890

[Click here if patient has allergies.](#)

ALLERGY SELECTION

Support for single, none or multiple selections per patient.



The image shows a software dialog box titled "ALLERGIES" with a close button (X) in the top right corner. Inside the dialog, there is a "Patient ID:" label above a text input field containing the number "3". Below this is a "Select Allergies:" label above a list box. The list box contains five items: "Mold", "Pet Dander", "Milk", "Nuts", and "Shellfish". The "Nuts" item is currently selected and highlighted in blue. At the bottom of the dialog is a button labeled "Save and Close".

ALLERGIES

Patient ID:

3


Select Allergies:

- Mold
- Pet Dander
- Milk
- Nuts**
- Shellfish


Save and Close


APPOINTMENT INFORMATION


Full Create, Read, Update & Delete functionality for new and existing appointments.




Premier Care
"Where you come first"

 Patient

 Appointment

 Prescription

 Invoice

APPOINTMENT INFORMATION

Appointment ID:

Patient:

Service:

Date of Appointment:

Doctor:

CSR ID:


Time:

Find Appointment:


Appointment_ID	Patient_Name	Doctor_Name	Service_Name	Date	Time	CSR
1	Marcolio Polio	Marcus McDonald	General Practice	4/17/2019	09:30:00	2
2	Antwon Ridgeway	Berric Dondarion	Specialist	5/1/2019	18:15:00	2
3	Emeline Shaw	Kerry-Ann Washington	Therapy	7/31/2019	08:00:00	2
4	Emilia Clarke	Berric Dondarion	Therapy	8/13/2019	15:30:00	2
6	Colm Imbert	Kerry-Ann Washington	X-Ray	4/25/2019	07:00:00	2
8	Daniel Caesar	Berric Dondarion	Specialist	5/1/2019	15:42:17	2


PRESCRIPTION INFORMATION


Full CRUD functionality with prescription details and additional description/notes.




Premier Care
"Where you come first"



 Patient

 Appointment

 Prescription

 Invoice

?



PRESCRIPTION INFORMATION

Prescription ID:

Drug:

Patient:

Doctor:

Period:

Dosage:


Description:

Add

Update

Delete

Clear

Find Prescription: 

Prescription_ID	Patient_Name	Drug_Name	Date	Period	Dosage	Doctor_Na
1	Marcolio Polio	Vicodin	4/24/2019	3 weeks	10mg, once per day	Marcus Mc
2	Emilia Clarke	Levothyroxine	4/24/2019	6 weeks	10ml, 3 times per day	Berric Dond
3	Emeline Shaw	Lisinopril	4/18/2019	1 week	15mg, after each meal	Kerry-Ann V
6	Daniel Caesar	Simvastatin	4/25/2019	2 weeks	10mg, every 12 hours	Berric Dond
7	Daniel Caesar	Lisinopril	4/25/2019	2 weeks	2 capsules per day	Marcus Mc

INVOICE INFORMATION


Support for multiple services and prescriptions on a single invoice.

Patient

Appointment

Prescription

Invoice

**Premier Care**
"Where you come first"

INVOICE INFORMATION

Invoice ID:
25

CSR ID:
2

Discount (%):

Patient:
Emilia Clarke

Date:
8/13/2019

Add

Services:
Pediatrics
General Practice
Specialist
Laboratory
Therapy
X-Ray

Prescriptions:
Levothyroxine

Delete

Clear

Find Invoice:

Invoice_ID	Patient_Name	Date	Total	Description	CSR_ID
22	Daniel Caesar	4/25/2019	140.00	Simvastatin: \$127.00 Lisinopril: \$13.00	2
23	Marcolio Polio	3/5/2019	678.00	Vicodin: \$678.00	2
24	Marcolio Polio	4/16/2019	920.00	General Practice: \$620.00 X-Ray: \$300.00	2
25	Emilia Clarke	8/13/2019	1539.00	Therapy: \$1,500.00 Levothyroxine: \$39.00	2

Total: \$1,539.00

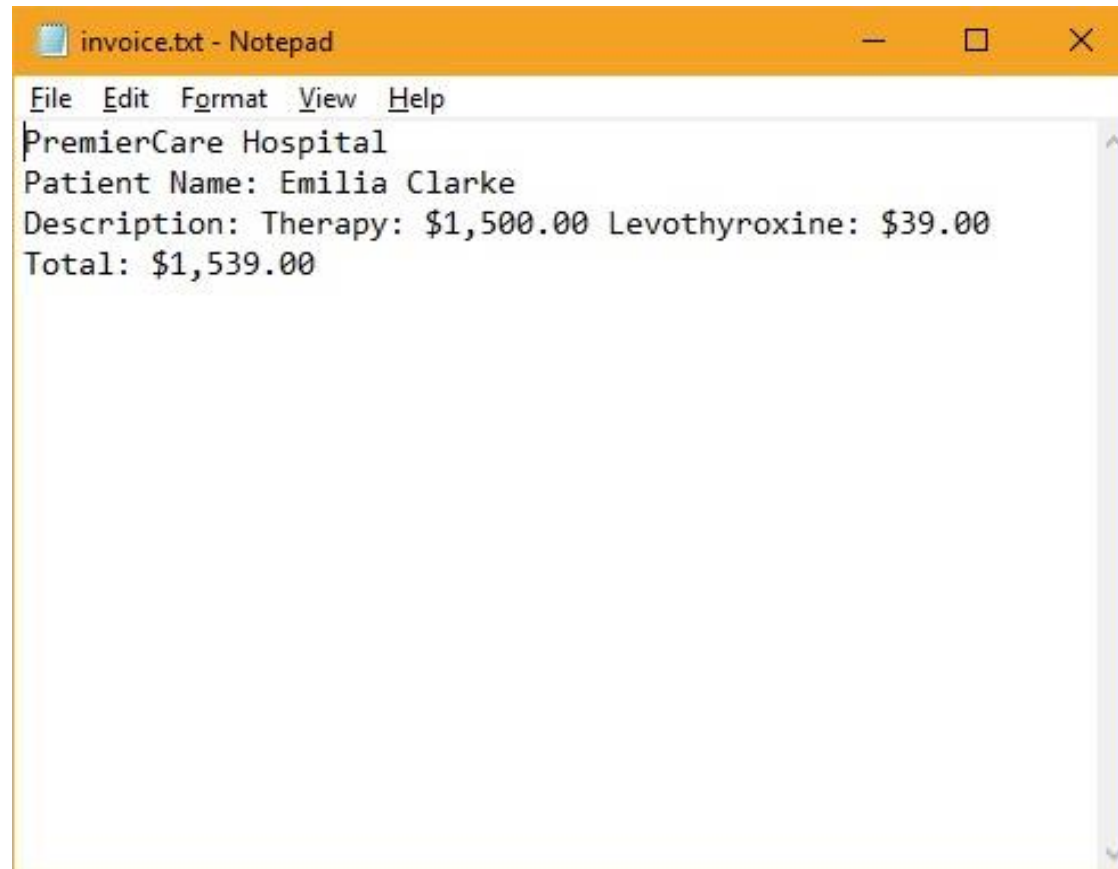
Print Invoice

Save To File (.txt)

15

SAVE TO FILE EXAMPLE

Support for saving invoice information to a text file.



PRINT INVOICE EXAMPLE

Print support for invoices.

PremierCare Hospital

Patient Name: Emilia Clarke

Therapy	\$1,500.00
Levothyroxine	\$39.00
Total	\$1,539.00