

**Indian Institute of Information Technology Sri City, Chittoor**

(An Institute of National Importance under An Act of Parliament)

**Object Oriented Programming - Section C**

**[Monsoon 2021]**

**Mini Project Description**

**Project Title: PHARMACY MANAGEMENT SYSTEM**

**Project Code: P06**

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**Team Name –** Pocket Pills

**Team Details:**

1. **Member (Lead) - 1: Mr. JASWANTH KRISHNA EAGA (S20200020257) - jaswanthkrishna.e20@iiits.in**
2. Member - 2: Ms. KAVYA SREE KAITEPALLI(S20200020270) – kavyasree.k20@iiits.in
3. Member - 3: Ms. HIMAJA ANCHURI(S20200020264) – himaja.a20@iiits.in
4. Member - 4: Mr. KARTHIK REDDY KOTA(S20200020275) – karthikreddy.k20@iiits.in

Team Contact Email: jaswanthkrishna.e20@iiits.in

**Pharmacy Management System(P06)**

**Description:**

This project idea deals with making a fully functional program to handle the needs of a medical store. The UI can be compromised but this project will involve File Handling so that some of data could be saved and be used every time which is explained below with description.

**Tasks:**

a**) Load basic data** - Mr. JASWANTH KRISHNA EAGA(S20200020257):

* **Load Person data:**
  + **Description:**
    - This consists of name of the person, contact number, date of approach, about prescription (whether he has a prescription of doctor or not).
  + **Class Diagram**
    - * PersonProfile

|  |
| --- |
| **person** |
| **+firstName**  **+lastName**  **+fullName**  **+date** |
| **+random ()**  **+printdata()**  **+getFullName ()**  **+ getFirstName ()**  **+ getLastName ()**  **+ create ()** |

* + - * Symptoms

|  |
| --- |
| **symptom** |
| **+Sno**  **+symp** |
| **+menu ()**  **+insert ()**  **+display ()**  **+search ()**  **+finds (int i)**  **+getsNo(string)** |

|  |
| --- |
| **admin** |
| **Medicine ma**  **symptom SYMP**  **person pa** |
| **+menu ()** |

|  |
| --- |
| **recptionist** |
| **Medicine mr**  **person pr** |
| **+menu ()** |

|  |
| --- |
| **customer** |
| **person cp** |
| **+menu ()**  **+ transcount()**  **+ lasttrans()** |

* **randomInput:**
  + **Description:** This method allows the program to randomly generate the attributes of the class.
* **generate:**
  + **Description:** This method is to set medicines for a given prescription or generate medicine for a particular symptom or disease
* **getFullName:**
  + **Description:** This is a getter method used by the functions outside class or the other classes to use the private variable fullName.
* **getFirstName:**
  + **Description:** This is a getter method used by the functions outside class or the other classes to use the private variable firstName.
* **getLastName:**
  + **Description:** This is a getter method used by the functions outside class or the other classes to use the private variable lastName.
* **Menu**
* **Description:** This method gives option to select options of insert, display,search,back and exit.
* **Insert**
* **Description:** This method to store the input data (sNo, Symptom) in a file.
* **Display**
* **Description:** This method is to display all symptoms saved in file.
* **Search**
* **Description:** This method is to search a particular symptom with given sNo.
* **transcount:**
* **Description: no of transactions done by a person**
* **lasrtrans:**
* **prining all of transactions done by a person**

**b) Load/ update /delete/search medicines**- Ms. KAVYA SREE KAITEPALLI (S20200020270):

**Description:**

Here, we provide the user with some modifications of the latest transactions in their prescription. Tasks include creation of medicines, search for medicine, updating, deleting etc.

* + **Class Diagram**
    - * Medicine

|  |
| --- |
| **Medicine** |
| **-name**  **+MRP**  **-mfgdate**  **-expdate**  **-no\_of\_tablets**  **-symptom**  **-medID** |
| **+AddMedicineDetails();**  **+showMedicinesData();**  **+searchMedicine(string s);**  **+updateStock(string, int);** |

|  |
| --- |
| **person** |
| **+ showTransactionData()**  **+ showTransactionBydate()** |

|  |
| --- |
| **Billing** |
| **+void genMed(int, string[], int, int[]);** |

* **addMedicine:**
* **Discription:** This method helps to add a medicine to the existing list of medicines.
* **searchMedByName:**
* **Discription:** This method helps to search for a medicine when the name is specified.
* **updateMed:**
* **Description**: This method is used to update any medicine if the customer wants to.
* **updatestok:**
* **Description:** to update stock when trasactions are done
* **showTransactionData t:**
* **Description:** show all transaction details and printing them

**c) Billing** - Ms. HIMAJA ANCHURI(S20200020264)**:**

**Description**:

In this task, if the person has a prescription and all the deletion, update etc. are once done bill will be generated. This also allows the person who do not have a prescription and wants to buy some medicine by describing the symptoms to get their medicine.

* **Class Diagram**
  + - * Billing(derived from Person class)

|  |
| --- |
| **Billing** |
| **-string medicine**  **-int mrp** |
| **+void gen\_med(int, string[], string[], int, int[]);**  **+int generate\_bill(string[], int[], int, int[]);**  **+void genMed(int, string[], int, int[]);** |

|  |
| --- |
| **person** |
| **+amt**  **Billing h** |
| **+ create ()**  **+ last5()** |

* **Gen\_med:**
* **Description:**

* **Generate\_bill:**
* **Description:**
* **genmed:**
* **Description:**
* **Last5:**
* **Description:** last 5 trasnastion saved in the file

**d) Login System** - Mr. KARTHIK REDDY KOTA (S20200020275):

he is having health issues

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**Uploading Instructions:**

After Completing the Object-Oriented Design (Must apply Object Oriented Concepts wherever possible) and then please upload the pdf via SmartMISS @ [**http://smartmiss.iiits.ac.in/upload**](http://smartmiss.iiits.ac.in/upload)

Remember that you are going to follow this very strictly and any deviation should be report to me or to Mr. Jaswanth N <[jaswanth.n@iiits.in](mailto:jaswanth.n@iiits.in)>

**Deadline: 12 November 2021 before 12:00 Noon**