

FIT5136 - Software Engineering

**Assignment 3: Software Design and
Implementation**

User Manual

Team Number: 35

Tutor Name: Roushan Mahmud

Tutorial Date: Friday 12-2 pm

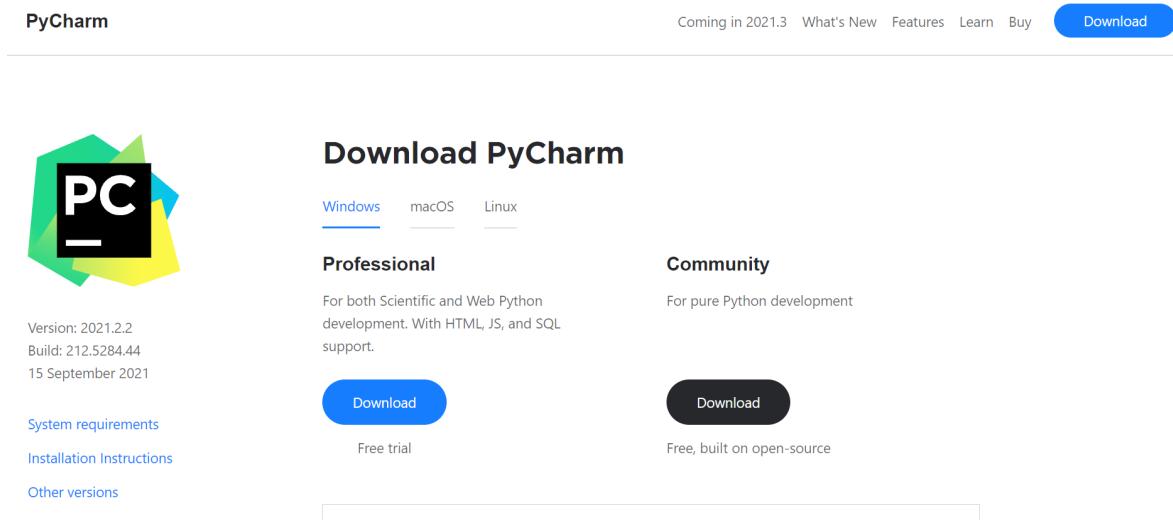
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Installation Guidelines

This is a text based application and an IDE must be installed to run this application. We recommend you download the PyCharm IDE to run the application.

- Link to download PyCharm:
<https://www.jetbrains.com/pycharm/download/#section=windows>

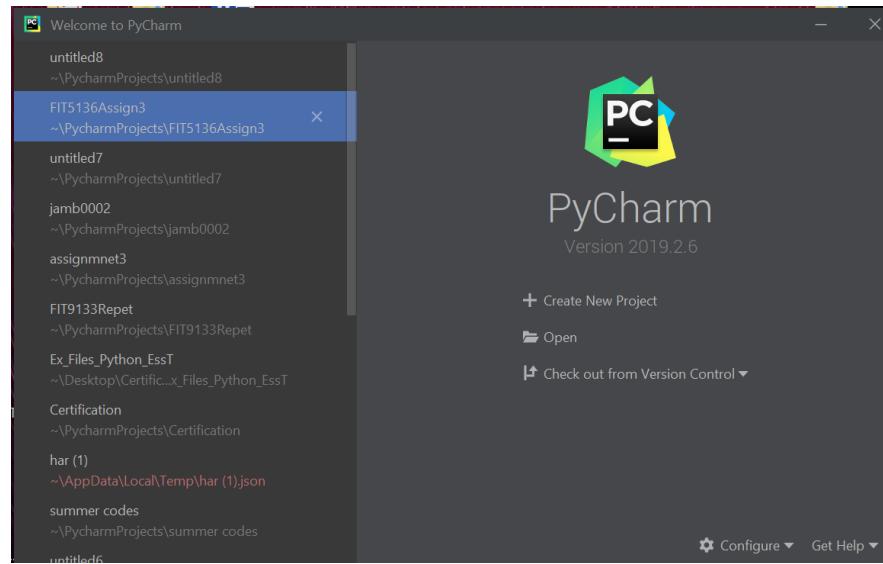


The screenshot shows the PyCharm download page. At the top, there is a navigation bar with 'PyCharm' on the left, 'Coming in 2021.3' and 'What's New' in the middle, and 'Features', 'Learn', and 'Buy' on the right. A blue 'Download' button is on the far right. Below the navigation, there is a large PyCharm logo and some version information: 'Version: 2021.2.2', 'Build: 212.5284.44', and '15 September 2021'. On the left, there are links for 'System requirements', 'Installation Instructions', and 'Other versions'. The main content area is titled 'Download PyCharm' and features two main sections: 'Professional' and 'Community'. The 'Professional' section is selected and shows a description: 'For both Scientific and Web Python development. With HTML, JS, and SQL support.' It has a 'Download' button (which is blue) and a 'Free trial' link. The 'Community' section shows a description: 'For pure Python development' and a 'Download' button (which is dark grey). Below the sections, there is a note: 'Free, built on open-source'.

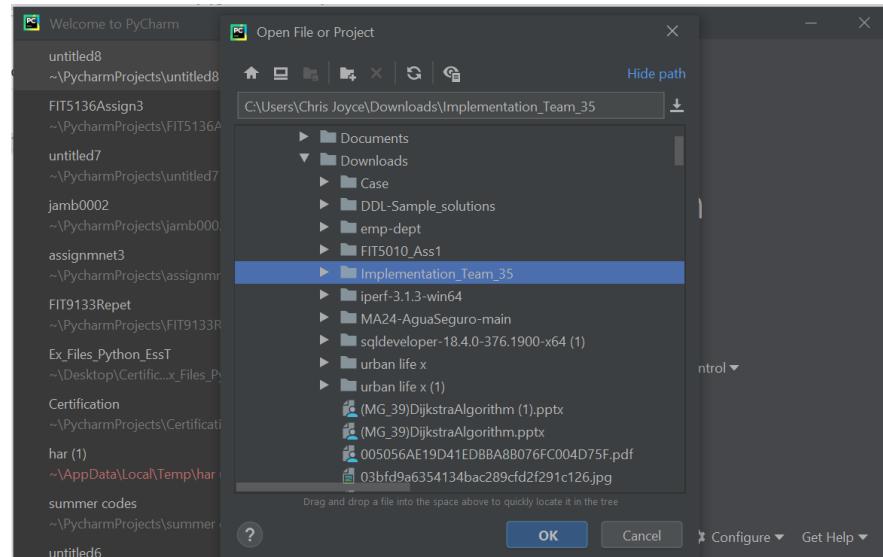
- Click on the Download for **Community**. Once you do that, you will be prompted to fill in some information. You can choose to ignore this, the download will begin automatically.
- Click on the file you just downloaded, a setup dialog box will appear. Click on **Next** → Set the destination folder and then click on **Next** → You will see an *Installation Option* dialog box, tick options you feel appropriate according and then click **Next** → Then click on **Install**, the installation will begin → Once installation is complete, tick the *Run Pycharm Community Edition* and then click **Finish**.
- If you already installed Pycharm before and want to import your previous settings then click on *Configure or Installation folder* else click on *Do not import settings* and then click on **OK** → Next, you can select the UI theme based on your preference, click the theme you prefer and then click on **Next:Featured plugins** → We do not need to install anything, click on **Start using PyCharm**

Run the Program on PyCharm

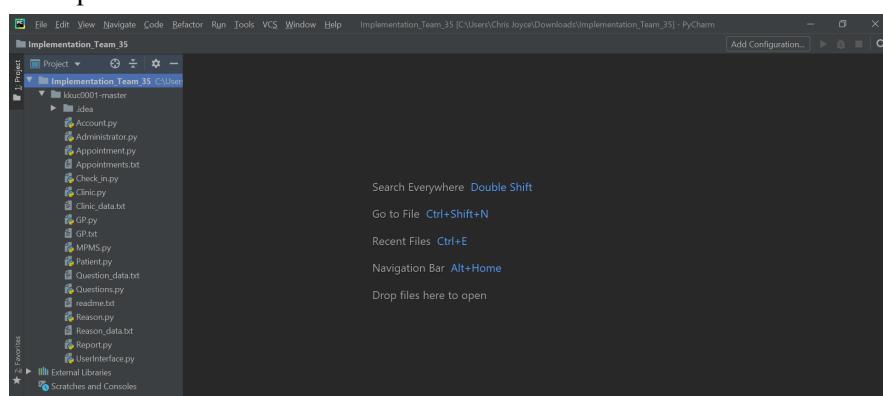
- Open the **Implementation_Team_35.zip** file → Extract all the files to appropriate destination folder
- Open PyCharm IDE and click on **Open**



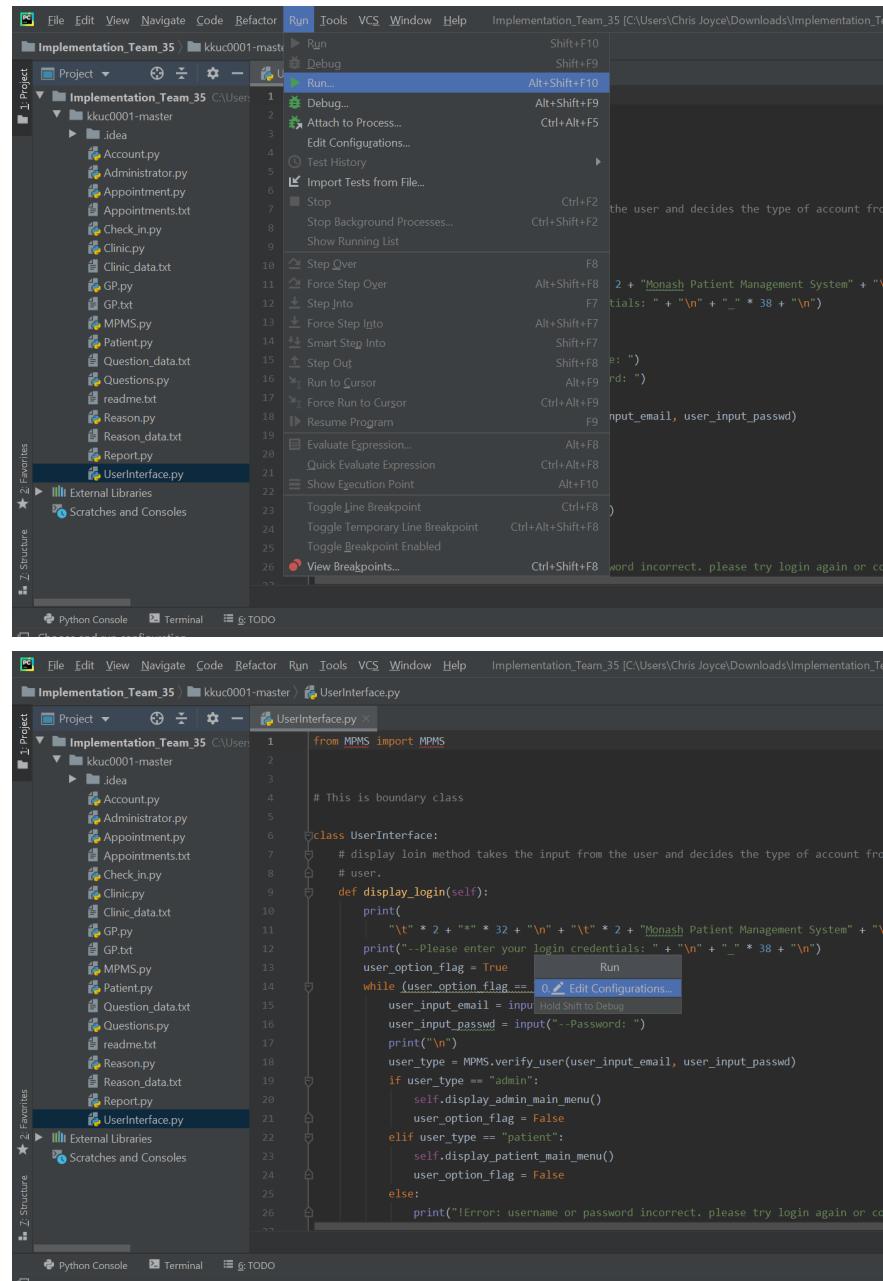
- Click on **Open** → You will be prompted to navigate to the folder where you extracted the **Implementation_Team_35** file → Click on the file and select **OK**



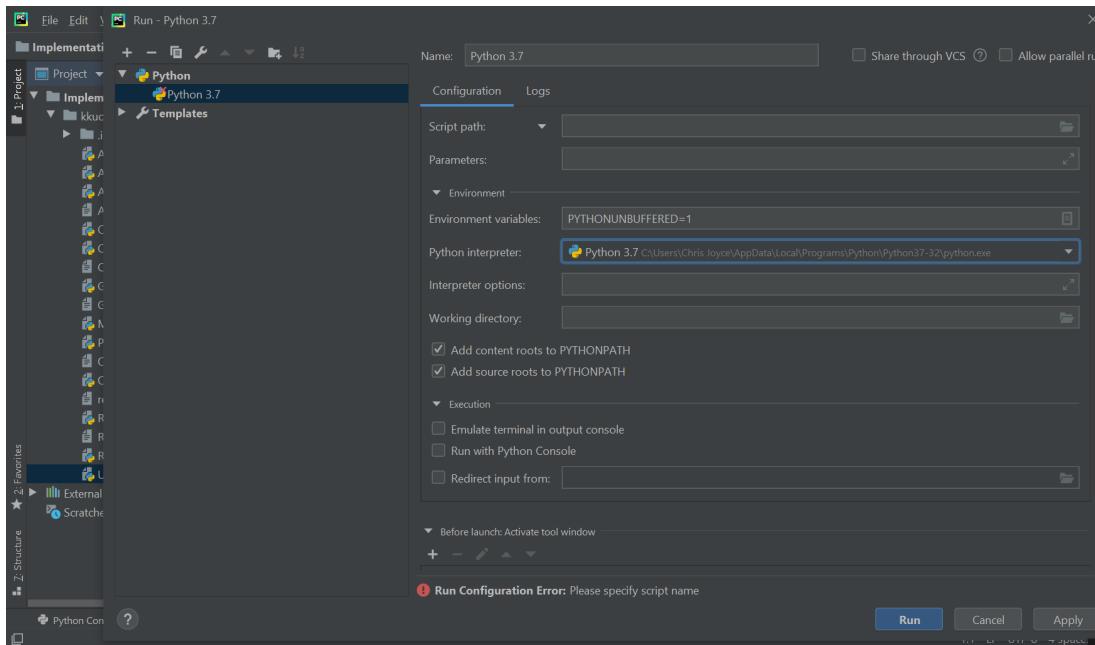
- The PyCharm IDE will load the file and in a few minutes you will be able to see all the files on the left side panel.



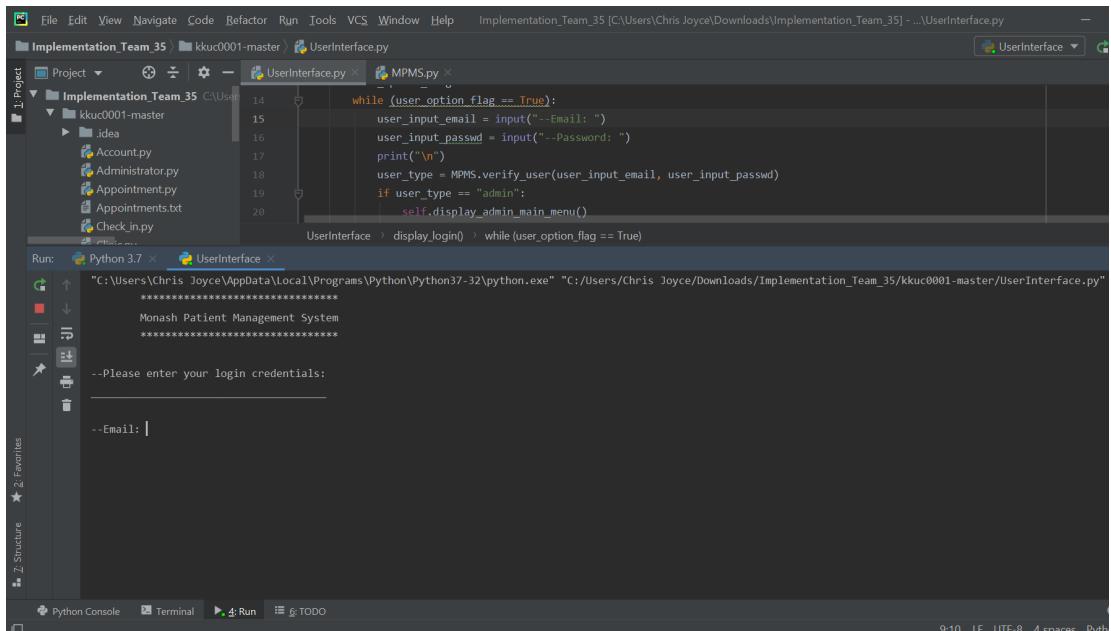
- Click on the **MPMS.py** file → Then, click on the **Run** option and under that drop down menu click on **Run** → A dialog box will appear, click on **Edit Configuration**



- A **Run/Debug Configurations** dialog will appear → Click on the “+” symbol at the top right corner → Under the drop down menu select **Python** → Under *Python Interpreter* select **Python 3.7** → Click on **Apply** and then click on **Run**



- Click on **UserInterface.py** file → Then, click on the **Run** option and under that drop down menu click on **Run**. You will see the Monash Patient Management System Login page displayed.



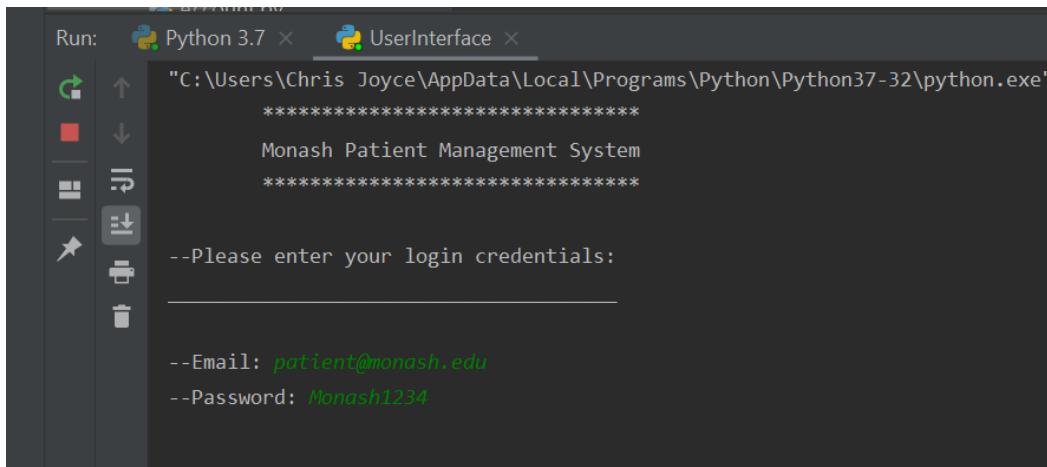
User : Patient

Monash Patient Management System has been implemented to have a fixed account for Patient Login. To login as the **Patient**, the login credentials are as follows:

Email : patient@monash.edu

Password: Monash1234

When you login with the above credentials you will login as a Patient in the Monash Patient Management System.



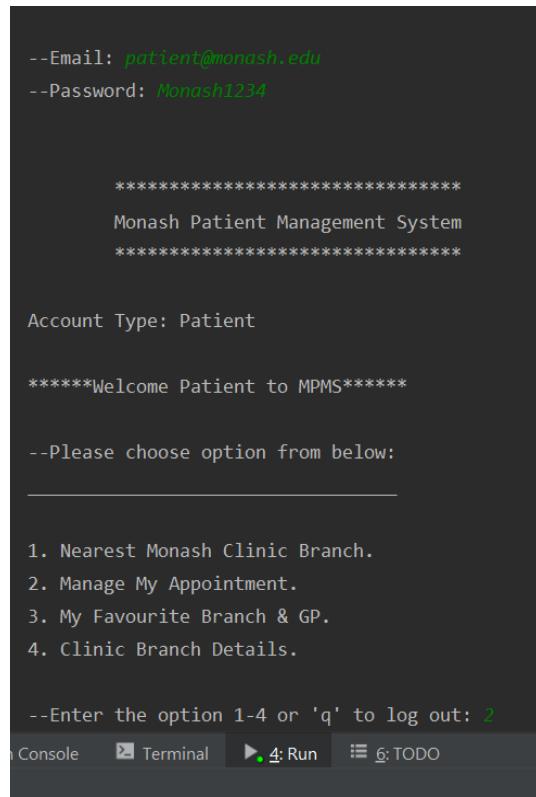
The screenshot shows a terminal window titled 'UserInterface' running on Python 3.7. The command used is 'python.exe' from the path 'C:\Users\Chris Joyce\AppData\Local\Programs\Python\Python37-32\python.exe'. The application displays the 'Monash Patient Management System' logo and a prompt for login credentials. The email and password entered are 'patient@monash.edu' and 'Monash1234' respectively.

```
Run: Python 3.7 x UserInterface x
"C:\Users\Chris Joyce\AppData\Local\Programs\Python\Python37-32\python.exe"
*****
Monash Patient Management System
*****
--Please enter your login credentials:
-----
--Email: patient@monash.edu
--Password: Monash1234
```

Patient : Appointment Management

After you login as the Patient, you can manage appointments.

- To manage patient appointment, enter option “2”



The screenshot shows a terminal window displaying the 'Monash Patient Management System' interface for a Patient. It shows the account type as 'Patient' and a welcome message. The user is prompted to choose an option from a list. The options are: 1. Nearest Monash Clinic Branch, 2. Manage My Appointment, 3. My Favourite Branch & GP, and 4. Clinic Branch Details. The user has selected option 2, 'Manage My Appointment'.

```
--Email: patient@monash.edu
--Password: Monash1234

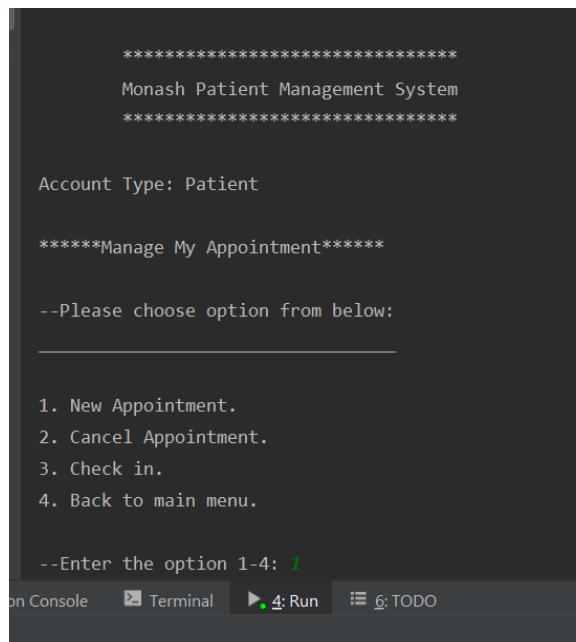
*****
Monash Patient Management System
*****

Account Type: Patient
*****Welcome Patient to MPMS****

--Please choose option from below:
-----
1. Nearest Monash Clinic Branch.
2. Manage My Appointment.
3. My Favourite Branch & GP.
4. Clinic Branch Details.

--Enter the option 1-4 or 'q' to log out: 2
```

- To create a new appointment, enter option “1”



```

*****
Monash Patient Management System
*****  

Account Type: Patient  

*****Manage My Appointment*****  

--Please choose option from below:  

_____  

1. New Appointment.  

2. Cancel Appointment.  

3. Check in.  

4. Back to main menu.  

--Enter the option 1-4: 1

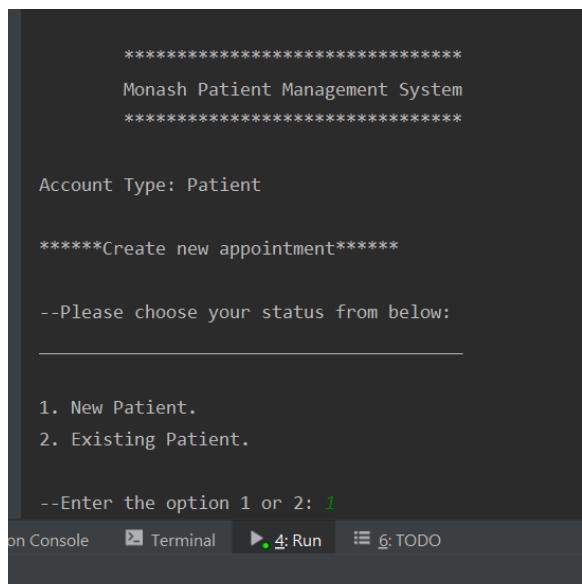
```

- To make an appointment as a new patient, enter option “1”

The patient can choose between two options:

Enter option “1” if new patient to Monash Patient Management System

Enter option “2” if an existing patient to Monash Patient Management System



```

*****
Monash Patient Management System
*****  

Account Type: Patient  

*****Create new appointment*****  

--Please choose your status from below:  

_____  

1. New Patient.  

2. Existing Patient.  

--Enter the option 1 or 2: 1

```

- Choose the reason for seeing the GP, enter option “2”

The patient can choose from 3 options:

Enter option “1”, if patient wants Standard Consultation Face to Face

Enter option “2”, if patient wants Telehealth (Video/Phone consultation)

Enter option “3”, if patient wants Long Consultation Face to Face

```
Account Type: Patient

*****Create new appointment*****

--Please choose your status from below:

1. New Patient.
2. Existing Patient.

--Enter the option 1 or 2: 1

--Please choose reason for seeing GP from below:

1. Standard Consultation Face to Face(15 minutes)
2. Telehealth (Video/Phone consult)(15 minutes)
3. Long consultation face to face(30 minutes)

--Enter the option 1-3: 2
```

- Upon choosing the reason for seeing the GP, the patient will be prompted to answer a COVID-19 questionnaire .

```
1. Standard Consultation Face to Face(15 minutes)
2. Telehealth (Video/Phone consult)(15 minutes)
3. Long consultation face to face(30 minutes)

--Enter the option 1-3: 2

--Please enter answer for Covid questionnaire:

1. Do you or the person who needs the appointment have ANY of the following symptoms: fever, chills, cough, sore throat, shortness of breath, runny nose, loss of smell or loss of taste?
--Enter 'Yes' or 'No': no

2. Have you or the person who needs the appointment been to a COVID-19 hot spot or outbreak area in the last two weeks?
--Enter 'Yes' or 'No': no

3. Have you or the person who needs the appointment been in direct contact with someone with suspected coronavirus (COVID-19) or who has returned from international or interstate travel?
--Enter 'Yes' or 'No': no
```

- Choose the clinic branch to make an appointment in, enter option “3”

The patient can choose from 3 options:

Enter option “1”, if patient wants to choose the Caulfield Clinic branch

Enter option “2”, if patient wants to choose the Clayton Clinic branch

Enter option “3”, if patient wants to choose the Melbourne Clinic branch

```
--Please choose the clinic branch from below:  
_____  
1. Caulfield Clinic  
2. Clayton Clinic  
3. Melbourne Clinic  
--Enter the option 1-3: 3  
n Console 2 Terminal 4: Run 6: TODO
```

- The clinic branch details will be displayed, and the patient is prompted to see if they want to continue booking their appointment with the clinic selected.

```
--Please choose the clinic branch from below:  
_____  
1. Caulfield Clinic  
2. Clayton Clinic  
3. Melbourne Clinic  
--Enter the option 1-3: 3  
  
Branch: Melbourne Clinic  
Address: 241 Bourke Street CBD  
Phone: 0344522456  
Opening hours: 8:30 AM(Mon-Fri)  
  
--Would you like to continue to book appointment?  
1. Yes  
2. No  
--Enter the option 1 or 2: Yes  
n Console 2 Terminal 4: Run 6: TODO
```

- Choose the GP for the corresponding appointment, enter option “1”

The patient can choose from 3 options:

Enter option “1”, if the patient wants to choose GP, Saruman White

Enter option “2”, if the patient wants to choose GP, Rad gast Brown

Enter option “3”, if the patient wants to choose Any GP. When a patient chooses this, they will be allocated to the GP with least appointments.

```
--Would you like to continue to book appointment?  
1. Yes  
2. No  
  
--Enter the option 1 or 2: 1  
  
--Please choose the GP from below:  
  
1. Saruman White  
2. Radagast Brown  
3. Any GP  
  
--Enter the option 1-3: 1  
n Console Terminal Run TODO
```

- Choose the appointment date and time

```
Python 3.7 × UserInterface ×  
--Please choose the appointment date from below:  
  
1. 10/11/2021  
2. 11/11/2021  
3. 12/11/2021  
4. 13/11/2021  
5. 14/11/2021  
  
--Enter the option 1-5: 4  
  
--Please choose the appointment time from below:  
  
1. 8:30  
2. 09:00  
3. 10:15  
4. 11:00  
5. 11:45  
  
--Enter the option 1-5: 4  
n Console Terminal Run TODO
```

- The appointment details selected by the patient are displayed so that the patient can confirm the booking of the appointment. Once the booking of the appointment is confirmed by entering option “1”, then a message is displayed **### The appointment has been booked ###**. To go back home, enter option “q”.

```
Appointment Details:
_____
Date:13/11/2021
Time: 11:00
Clinic Branch: Melbourne Clinic
GP: Saruman White

--Are you sure to book this appointment?
1. Yes
2. No

--Enter the option 1 or 2: 1

###The appointment has been booked###

--Enter 'q' to back to home:

```

on Console Terminal Run TODO

Patient : Check-in

After you login as the Patient, the patient can check-in

- To manage patient appointment, enter option “2”

```
--Email: patient@monash.edu
--Password: Monash1234

*****
Monash Patient Management System
*****

Account Type: Patient

*****Welcome Patient to MPMS*****

--Please choose option from below:

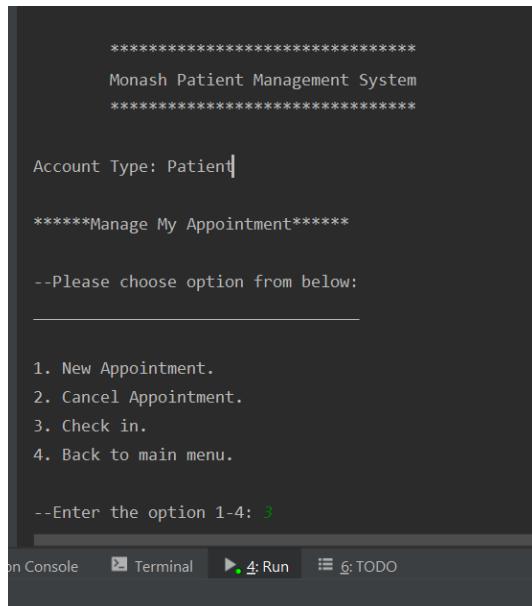
_____
1. Nearest Monash Clinic Branch.
2. Manage My Appointment.
3. My Favourite Branch & GP.
4. Clinic Branch Details.

--Enter the option 1-4 or 'q' to log out: 2

```

on Console Terminal Run TODO

- To check in for appointment, enter option “3”



```
*****
Monash Patient Management System
*****  

Account Type: Patient  

*****Manage My Appointment*****  

--Please choose option from below:  

_____  

1. New Appointment.  

2. Cancel Appointment.  

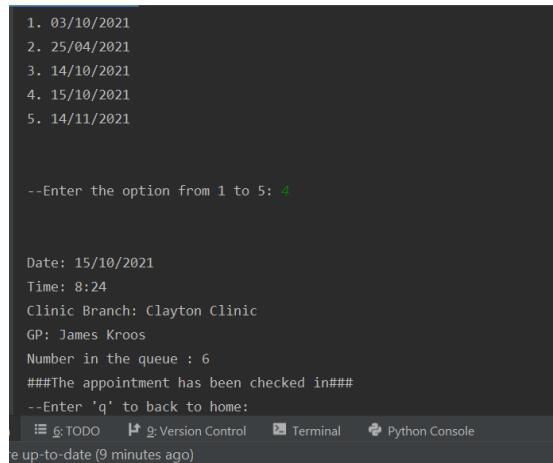
3. Check in.  

4. Back to main menu.  

--Enter the option 1-4: 3  


```

- Choose the appointment date from below to check-in → after choosing the appointment the details of the check-in details are displayed as below and displays a message **##The appointment has been checked in ##**



```
1. 03/10/2021  

2. 25/04/2021  

3. 14/10/2021  

4. 15/10/2021  

5. 14/11/2021  

--Enter the option from 1 to 5: 4  

Date: 15/10/2021  

Time: 8:24  

Clinic Branch: Clayton Clinic  

GP: James Kroos  

Number in the queue : 6  

##The appointment has been checked in##  

--Enter 'q' to back to home:  


```

User : Admin

Monash Patient Management System has been implemented to have a fixed account for Admin Login. To login as the **Admin**, the login credentials are as follows:

Email : admin@monash.edu
 Password: Monash1234

When you login with the above credentials you will login as an admin in the Monash Patient Management System.

```
*****
Monash Patient Management System
*****  
  
--Please enter your login credentials:  
  
-----  
  
--Email: admin@monash.edu  
--Password: Monash123|
```

Admin : Generate Report - Amount of patients a GP handles during a period

After you login as the Admin, you will see a Home Screen as following:

- To generate a report, enter option “6”

```
*****
Monash Patient Management System
*****  
  
Account Type: Admin  
  
*****Welcome Admin to MPMS*****  
  
--Please choose option from below:  
  
-----  
  
1. Manage clinic.  
2. Modify reason for seeing GP.  
3. Modify COVID questionnaire.  
4. Manage GP.  
5. Modify assigned GP appointment.  
6. Generate report.  
7. Log out.  
  
--Enter the option from 1-7: 6
```

- To generate report of the amount of patients a GP has handled during a specific period, enter option “1”

```
*****
Monash Patient Management System
*****  
  
Account Type: Admin  
  
*****Generate Report*****  
  
--Please choose the report type:  
  
-----  
1. The amount of patients a GP handles during the period.  
2. The amount of patients a clinic handled during a period.  
3. The percentage of reasons for patient appointment during a period.  
4. Back to main menu.  
  
--Enter the option from 1-4: |  
n TODO Version Control Terminal Python Console
```

- Choose a GP for the report by entering the corresponding option number (e.g. “1” for Gandalf Grey):

```
--Enter the option from 1-4: 1  
  
--Please choose the GP name from below:  
  
-----  
1. Gandalf Gray  
2. Saruman White  
3. Radagast Brown  
4. James Kroos  
5. Roben Van  
6. Lion Ben  
  
--Enter the option from 1 to 6: |
```

- Next, type in the starting date of the report in the format of dd/mm/yyyy:

```
--Enter the option from 1 to 6: 1  
  
--Please enter the start date e.g.(dd/mm/yyyy): 01/01/2021|
```

- And, type in the ending date of the report in the format of dd/mm/yyyy:

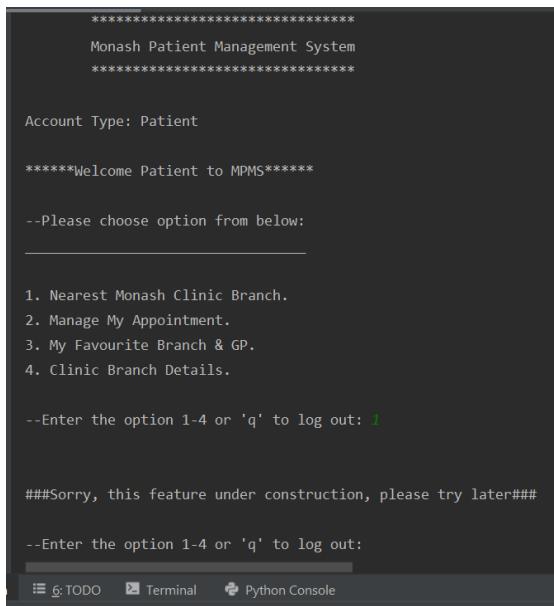
```
--Please enter the End date e.g.(dd/mm/yyyy): 31/12/2021|
```

- Finally, the report will be displayed in the following format:

GP Name: Gandalf Gray
Number of Appointment: 2
Date Range: 01/01/2021 - 31/12/2021

Troubleshooting

- The **Manage My Appointment** feature is the only feature in the patient account that has been implemented. So if user enter's options 1, 3 and 4 they will see a message **### Sorry, this feature under construction, please try later ###**. These three features have not been implemented . So when you encounter this, enter option 2 because only option 2 feature has been implemented.



```
*****
Monash Patient Management System
*****  
  
Account Type: Patient  
  
*****Welcome Patient to MPMS*****  
  
--Please choose option from below:  
  
1. Nearest Monash Clinic Branch.  
2. Manage My Appointment.  
3. My Favourite Branch & GP.  
4. Clinic Branch Details.  
  
--Enter the option 1-4 or 'q' to log out: 2  
  
###Sorry, this feature under construction, please try later###  
  
--Enter the option 1-4 or 'q' to log out:  
  
TODO Terminal Python Console
```

- The **New Appointment, Check in and Back to main menu** feature in **Manage My Appointment** has been implemented. So if user enter's option 2 they will see **### Sorry, this feature under construction, please try later ###** because this feature has not been constructed. When you encounter this, enter only option 1,2, and 4.

```
Account Type: Patient

*****Manage My Appointment*****

--Please choose option from below:

1. New Appointment.
2. Cancel Appointment.
3. Check in.
4. Back to main menu.

--Enter the option 1-4: 2

###Sorry, this feature under construction, please try later###

|-Enter the option 1-4:
  □ TODO  □ Terminal  □ Python Console
```

- The **Generate Report** and **Logout** feature is the only feature in the admin account that has been implemented. So if user enter's options 1,2,3,4 and 5 they will see a message **### Sorry, this feature under construction, please try later ###**. These five features have not been implemented . So when you encounter this, enter option 6 and 7 because only these two features have been implemented.

```
Account Type: Admin

*****Welcome Admin to MPMS*****


--Please choose option from below:

1. Manage clinic.
2. Modify reason for seeing GP.
3. Modify COVID questionnaire.
4. Manage GP.
5. Modify assigned GP appointment.
6. Generate report.
7. Log out.

--Enter the option from 1-7: 7

###Sorry, this feature under construction, please try later###

|-Enter the option from 1-7:
```