**Use Cases Document**

|  |  |
| --- | --- |
| **No.** | **(Group 41)** |
| **1** | Gerges Salah |
| **2** | Joseph Gamal |
| **3** | Brexam Gamal |
| **4** | Merna Nabil |
| **5** | Merna Ibram |
| **6** | Peter Sami |

|  |  |
| --- | --- |
|  |  |
| **Module Name** | Dental clinic |
| **Date** | 1/11/2021 |
| **Version** | 1.0 |

**Table of Contents**

[*Feature list*](#_Features_List) *…………………………………………………………………………………………….….3*

[Use Cases List 3](#_Use_Cases_List)

[1 registration 4](#_Registration)

**[1.1 Feature Process Flow / Use Case Model 4](#_Feature_Process_Flow)**

[**1.2 Use Case(s) 4**](#_Use_Case(s))

[2 login 5](#_login)

**[2.1 Feature Process Flow / Use Case Model 5](#_Feature_Process_Flow_1)**

[**2.2 Use Case(s) 5**](#_Use_Case(s)_1)

[3 Book an appointment 6](#_Book_an_appointment)

[3.1 Feature Process Flow / Use Case Model 6](#_Feature_Process_Flow_2)

3[.2 Use Case(s) 6](#_Use_Case(s)_2)

[4 Contact us 7](#_Contact_us)

[4.1 Feature Process Flow / Use Case Model 7](#_4.1_Feature_Process)

[4.2 Use Case(s) 7](#_4.2_Use_Case(s))

[5 complain 8](#_Complain)

5[.1 Feature Process Flow / Use Case Model 8](#_5.1_Feature_Process)

[5.2 Use Case(s) 8](#_5.2_Use_Case(s))

[6 report 9](#_6_Report)

[6.1 Feature Process Flow / Use Case Model 9](#_Feature_Process_Flow_3)

[6.2 Use Case(s) 9](#_6.2_Use_Case(s))

[7 feedback 10](#_Feedback)

[7.1 Feature Process Flow / Use Case Model 10](#_Feature_Process_Flow_4)

[7.2 Use Case(s) 10](#_7.2__)

[8 editing of appointment 11](#_8_Edit_an)

[8.1 Feature Process Flow / Use Case Model 11](#_8.1_Feature_Process)

[8.1. Use Case(s) 11](#_8.2_Use_Case(s))

[9 AVAILABLE MATERIALS 12](#_Available_material)

[9.1 Feature Process Flow / Use Case Model 12](#_Feature_Process_Flow_5)

[9.1 Use Case(s) 12](#_Use_Case(s)_3)

[10 SESSION TYPE 13](#_10_Session_type)

[10.1 Feature Process Flow / Use Case Model 13](#_10.1_Feature_Process)

[10.1 Use Case(s) 13](#_10.2_Use_Case(s))

[11 *Calculate profits* 14](#_11_calculate_profit)

[11.1 Feature Process Flow / Use Case Model 14](#_10.1_Feature_Process)

[11.1 Use Case(s) 14](#_10.2_Use_Case(s))

[11.1.1  *Input incoming* 15](#_11_calculate_profit)

[11.1.1 Feature Process Flow / Use Case Model 15](#_10.1_Feature_Process)

[11.1.1 Use Case(s) 15](#_10.2_Use_Case(s))

[11 *input outcoming* 16](#_11_calculate_profit)

[11.1.2 Feature Process Flow / Use Case Model 16](#_10.1_Feature_Process)

[11.1.2 Use Case(s) 16](#_10.2_Use_Case(s))

# Features List

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Module Name** | **Feature Description** |
| 1 | Registration | Allow the user to register an account on the site |
| 2 | Login | Allows registered users to login to the site to access all of the features that their account gives them access to |
| 3 | Book an appointment | Allow the patient to reserve appointment |
| 4 | Contact us | Function allows the patient to connect with clinic |
| 5 | Complain | Allow the patient to submit a complain to the doctor |
| 6 | Report | Function to make the doctor assistant and the doctor write report and make the patient see this report |
| 7 | Feedback | Function to make a patient write a feedback and make doctor can read this feedback |
| 8 | Editing of appointments | Allow doctor or receptionist to change an appointment when a problem occurs on the data |
| 9 | Available materials | Function makes the doctor or doctor assistant to enter a new material, show material and delete materials |
| 10 | Session type | Function let Doctor assistant enter session type |
| 11 | Calculate profits | Function let assistants to calculate profits |

# Use Cases List

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature ID** | **Use Case ID** | **Primary Actor** | **Use Cases** |
| 1 | UC-1.1 | patient | Register |
| 2 | UC-2.1 | patient | Login |
| 3 | UC-3.1 | patient | Book an appointment |
| 4 | UC-4.1 | Patient | Contact us |
| 5 | UC-5.1 | patient | Complain |
| 6 | UC-6.1 | doctor &doctor assistant | Report |
| 7 | UC-7.1 | Patient | Write and read Feedback |
| 8 | UC-8.1 | doctor | Editing of appointments |
| 9 | UC-9.1 | Doctor & doctor assistant | Edit materials |
| 10 | UC-10.1 | doctor assistant | Session type |
| 11 | UC-11.1 | Receptionist | Calculate profits |
| 11 | UC-11.1.1 | Receptionist | Input incoming |
| 11 | UC-11.1.2 | Receptionist | Input outcoming |

# Registration

## Feature Process Flow / Use Case Model

## Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-1.1 | | | |
| **Use Case Name:** | Register | | | |
| **Created By:** | Brexam Gamal | | **Last Updated By:** | Merna Ibram |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Patient | | |
| **Description:** | | Allow the user to register an account on the site | | |
| **Trigger:** | | When the user enters to the system to enroll | | |
| **Preconditions:** | | **1. open website**  **2. the user must create web account**  **2. fill the registration form**  **3. validation on the registration** | | |
| **Post conditions:** | | A page will appear to the patient, dictating his details | | |
| **Normal Flow:** | | 1. the user create a new account in the website of the dental clinic  2. enter username in at most 24 characters  3. enter email address  4. enter gender  5. enter age  6. enter phone number  7. enter password is at least 8 characters long and confirm password  8. the system save information on data base | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | 1. in steps (3) of normal flows, if user does not have email address registration by google account or Facebook 2. in steps (5) of normal flows, if user does not enter age and enter date of birth, the age instead date of birth 3. in steps (5) of normal flows, if user enter another phone number | | |
| **Exceptions:** | | 2.1 name already exists, enter your full name  6.1 when entering the number less than 11 digits, rewrite the correct number  7.1 if the password is less than 8 characters, it will appear message. Retype the password with maximum of 8 characters | | |
| **Includes:** | | UC 1.2, UC 2.1 | | |
| **Frequency of Use:** | | Maximum 500 times per day | | |
| **Special Requirements:** | | Big databases | | |
| **Assumptions:** | | The Arabic language is the main language as this system serve the middle East | | |
| **Notes and Issues:** | |  | | |

# login

## Feature Process Flow / Use Case Model

## Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-2.1 | | | |
| **Use Case Name:** | Login | | | |
| **Created By:** | Brexam Gamal | | **Last Updated By:** | Merna Ibram |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Patient, doctor, receptionist, doctor assistant | | |
| **Description:** | | Allow the registered users to access the website | | |
| **Trigger:** | | when the user opens an account in the system | | |
| **Preconditions:** | | **The user has an account on the system through which they can see the data they are allowed to view** | | |
| **Post conditions:** | | An account is opened for the user to view some of their data | | |
| **Normal Flow:** | | 1. the user opens the site  2. the user enters username  3. the user enters password  4. the user presses the login button  5. the system verify password  6. the site will open for the user | | |
| **Alternative Flows:** | | 1. in steps (2,3) of normal flows, if the client does not have an account on the site, a window will appear asking him to register his data in order to open an account for him to access the site 2. in steps (3) of normal flows, if user forget password enter the button and enter email or number, system will send message with a code | | |
| **Exceptions:** | | * 1. user name is incorrect, appear message error   2.1 password is incorrect, appear message error | | |
| **Includes:** | | UC2.1, UC2.2 | | |
| **Frequency of Use:** | | 2000 per hours | | |
| **Special Requirements:** | | Big databases | | |
| **Assumptions:** | | The Arabic language is the main language as this system serve the middle East | | |
| **Notes and Issues:** | |  | | |

# Book an appointment

## Feature Process Flow / Use Case Model

## Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-3.1 | | | |
| **Use Case Name:** | Book an appointment | | | |
| **Created By:** | Merna Nabil | | **Last Updated By:** |  |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Patient | | |
| **Description:** | | **Allows the patient to book an appointment** | | |
| **Trigger:** | | This case occurs when patient Login or registers his data and sees all existing appointments and chooses the appointments he or she wants it | | |
| **Preconditions:** | | 1. **Patient must register his data** 2. **patient must login** 3. **patient should see all existing appointments in details and select** | | |
| **Post conditions:** | | 1. **the system makes his date reserved** 2. patient may be cancelling an appointments 3. if the appointment is not canceled, patient will pay an confirm | | |
| **Normal Flow:** | | 1. **the patient login on the system** 2. **the patient clicks on the button booking appointment** 3. **the patient determines kind of session (examination or re-examination)** 4. **the patient chooses the appropriate date** 5. **the system records the date selected by the patient in a data file with his name** 6. **the system makes this date reserved** 7. **the system will send a message before the date to remind the patient of the appointments** | | |
| **Alternative Flows:** | | 1. in steps (2,3) of normal flows, if the patient wants to choose new appointments or make canceled reservation, the patient presses the button (new appointments or cancel appointments) 2. in steps (4) of normal flows, if the patient wants to confirm the date of reservation and pay   4.1 the patient chooses the kind of pay (cash or visa or pal)  4.2 the system prints a bill to the patient | | |
| **Exceptions:** | | * 1. if the patient make login incorrect, system display login error   4.1 if the patient wants appointments not exist  - the patient records that he wants it, when appointments available, we  tell him | | |
| **Includes:** | | UC3.1, UC3.2, UC3.3, UC3.4.1, UC3.4.2, UC3.4.3, UC3.5 | | |
| **Frequency of Use:** | | 200 per day | | |
| **Special Requirements:** | | Add appointments of user to database | | |
| **Assumptions:** | | Any patient who sets an appointment will deleted directly from the system | | |
| **Notes and Issues:** | |  | | |

# Contact us

## 4.1 Feature Process Flow / Use Case Model

## 4.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-4.1 | | | |
| **Use Case Name:** | Contact us | | | |
| **Created By:** | Gerges salah | | **Last Updated By:** | Gerges salah |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | The patient | | |
| **Description:** | | Button when click it, show clinic numbers, clinic page and clinic information | | |
| **Trigger:** | | When the patient(user) clicks on contact us button | | |
| **Preconditions:** | | **1 – open the website/mobile app**  **2 – login**  **3 – validation on the login** | | |
| **Post conditions:** | | 1 – show box of clinic numbers, clinic page and clinic information | | |
| **Normal Flow:** | | 1 – log in  2 – click on the contact us button  3 – show clinic numbers, clinic page and clinic information | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | 1- click on button  2- show the numbers of clinic in the bottom of bar menu | | |
| **Exceptions:** | | 1 – the user screen is small | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | | 100 per hour | | |
| **Special Requirements:** | | Clicking button | | |
| **Assumptions:** | | The clinic information (numbers, page link) is clear | | |
| **Notes and Issues:** | |  | | |

# Complain

## 5.1 Feature Process Flow / Use Case Model

## 5.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-1.5 | | | |
| **Use Case Name:** | Complain | | | |
| **Created By:** | Peter Sami | | **Last Updated By:** | Merna Nabil |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Patient, Doctor | | |
| **Description:** | | It let patient to make a complains and doctor to show complains | | |
| **Trigger:** | | Patient or Doctor click on the icon named complains | | |
| **Preconditions:** | | 1- Patient must have an account on the system and be logged in.  2-The patient must have made an appointment in less than a week.  3-Doctor must have log in on the system to show complains. | | |
| **Post conditions:** | | Complaints have been sent and the doctor can see them at any time | | |
| **Normal Flow:** | | 1-The patient logs in or creates an account if he does not have one.  2-patient click on the icon which named complains which take him to a page in which he can write his complains.  3- Doctor logs in on the system.  4- Doctor can click on the icon complains to show him the patients complains. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | |  | | |
| **Exceptions:** | |  | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | | 1000 per hour | | |
| **Special Requirements:** | | Clicking button | | |
| **Assumptions:** | |  | | |
| **Notes and Issues:** | |  | | |

# 6 Report

## Feature Process Flow / Use Case Model

## 6.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-6.1 | | | |
| **Use Case Name:** | Report | | | |
| **Created By:** | Gerges Salah | | **Last Updated By:** | Gerges salah |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | The patient, the doctor, the doctor assistant | | |
| **Description:** | | The doctor or the doctor assistant can write a patient statement report through it, and the patient can see this report. | | |
| **Trigger:** | | When click on report button | | |
| **Preconditions:** | | 1. Log in 2. Clicking on button 3. After end of session | | |
| **Post conditions:** | | Saving it in data base | | |
| **Normal Flow:** | | 1 - clicking on the button  2 – check his account  3 – move to report page, it include 2 parts. One for write a report and another part for read a report  4 – click a done button to finish | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | 2a. in step 2 of the normal flow. If the account is doctor or doctor assistant  account   1. The system will disable the report reading part 2. The doctors when click on Activated part, he can write and edit in a reports 3. Save the report in database   2b. in step 2 of the normal flow. If the account is patient account   1. The system will disable the report writing part 2. The patient when click on Activated part, he can read his statement report | | |
| **Exceptions:** | | 4a. In step 4 of the normal flow, if the doctors enter an empty report   1. System will show message to make the doctors enter valid report, then return the report page.   4b. In step 4 of the normal flow, if the doctors enter a symbols   1. System will show message to make the patient remove a symbol | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | | 100 per hour | | |
| **Special Requirements:** | | Write clearly reports for patient | | |
| **Assumptions:** | | The report shall be written in the language of the country | | |
| **Notes and Issues:** | |  | | |

# Feedback

## Feature Process Flow / Use Case Model

## 7.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC – 7.1 | | | |
| **Use Case Name:** | Write and read Feedback | | | |
| **Created By:** | Merna Nabil | | **Last Updated By:** |  |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Patient, receptionist | | |
| **Description:** | | The patient can write feedback through it and the receptionist can read this feedback | | |
| **Trigger:** | | Click on the feedback button | | |
| **Preconditions:** | | **1 – log in**  **2 – clicking on button**  **3 – write something to complete** | | |
| **Post conditions:** | | Patient receive thanks massage | | |
| **Normal Flow:** | | 1 - clicking on the button  2 – check his account  3 – move to feedback page, it include 2 parts. One for write feedback and another part for read a feedbacks  4 – click a done button to finish  5 – system show thanks massage to patient | | |
| **Alternative Flows:** | | 2a. in step 2 of the normal flow. If the account is receptionist account   1. The system will disable the feedback writing part 2. The receptionist when click on Activated part, he can read a feedbacks   2b. in step 2 of the normal flow. If the account is patient account   1. The system will disable the feedback reading part 2. The patient when click on it, he can write feedback 3. save this feedback on data base   2c. in step 2 of the normal flow. If the patient didn’t find in the database  1.show him the registration page to registration  4a. in step 4 of the normal flow. If the patient cancels before send feedback  1.the system will show Warning message.  4c. In step 4 of the normal flow, if the patient enters valid feedback  1.the system will save it in data base | | |
| **Exceptions:** | | 4a. In step 4 of the normal flow, if the patient enters empty feedback   1. System will show message to make the patient enter valid feedback and return the feedback page.   4b. In step 4 of the normal flow, if the patient enters a symbols   1. System will show message to make the patient remove a symbol | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | | 100 per hour | | |
| **Special Requirements:** | | Add id of user to database | | |
| **Assumptions:** | | The patient must be +12 | | |
| **Notes and Issues:** | |  | | |

# 8 Edit an appointment

## 8.1 Feature Process Flow / Use Case Model

## 8.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-8.1 | | | |
| **Use Case Name:** | Edit appointment | | | |
| **Created By:** | Peter Sami | | **Last Updated By:** | Gerges Salah |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 24/11/2021 |
| **Actors:** | | Doctor, Receptionist | | |
| **Description:** | | Doctor and Receptionist can enter Available appointments | | |
| **Trigger:** | | Receptionist or Doctor click on the icon named Edit appointment | | |
| **Preconditions:** | | Doctor or Receptionist must have log in on the system so that they can edit the available appointments. | | |
| **Post conditions:** | | Available appointments will be adjusted in a way that suits the doctor's schedule | | |
| **Normal Flow:** | | 1-Receptionist logs in on the system and click on the icon Edit appointment.  2- Receptionist enters the available appointments. | | |
| **Alternative Flows:** | | 1a. Doctor logs in on the system and click on the icon Edit appointment.  2. Doctor enters the available appointments. | | |
| **Exceptions:** | | Doctor or Receptionist can enter an existent appointment then the system shows error message says that “the appointment already exists”  2a.in a step 2 if doctor assistant entered an existence appointment  1- Appointment is disapproved.  2- Message to Doctor or Receptionist to re-enter the appointment.  3-Doctor or Receptionist re-enters appointment.  4-Use Case resumes on step 3 of normal flow. | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | | 20 per day | | |
| **Special Requirements:** | |  | | |
| **Assumptions:** | |  | | |
| **Notes and Issues:** | |  | | |

# Available material

## Feature Process Flow / Use Case Model

## Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-10.1 | | | |
| **Use Case Name:** | edit material | | | |
| **Created By:** | Merna Ibram | | **Last Updated By:** | Gerges Salah |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 25/11/2021 |
| **Actors:** | | Doctor, doctor assistant | | |
| **Description:** | | The doctor and his assistant can delete and show and write a material through it | | |
| **Trigger:** | | Clicking on the function button | | |
| **Preconditions:** | | 1. Log in 2. Clicking the button 3. Use this function Constantly | | |
| **Post conditions:** | | 1. Save the updates | | |
| **Normal Flow:** | | 1- clicking on the button  2- move to material page, it include 2 parts. One for enter a new material and  second part for delete the material  3- choose part  4- click a done button to finish  5- save the updates in data base  6- the system calculates and set the amount of material after editing | | |
| **Alternative Flows:** | | 3a. in step 3 of the normal flow. If the doctor or doctor assistant choose first   part (enter a new material part)   1. The system will display page contain the names of materials and its amount in box which he can edit in it 2. when the doctors click on box, he can write and edit in a material amount 3. Save the editing in database 4. the system calculates and set the amount of material after editing   3b. in step 3 of the normal flow. If the doctors choose second part(delete)   1. The system will display page contain the names of materials 2. When doctor assistant clicks on any name, the system displays a box to determine the amount of deficiency. 3. Save the editing in database. 4. the system calculates and set the amount of material after editing | | |
| **Exceptions:** | | 3a. In step 3 of the normal flow, if the doctors enter invalid amount   1. System will show warning message to make the doctors enter valid amount, then return the previous page. 2. The system will not save this wrong amount | | |
| **Includes:** | | ------ | | |
| **Frequency of Use:** | | 100 per hour | | |
| **Special Requirements:** | | The doctors must determine clearly numbers | | |
| **Assumptions:** | | Quantities must be written in a system of units | | |
| **Notes and Issues:** | |  | | |

# 10 Session type

## 10.1 Feature Process Flow / Use Case Model

## 10.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-11.1 | | | |
| **Use Case Name:** | Session type | | | |
| **Created By:** | Merna Ibram | | **Last Updated By:** | Peter Sami |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 24/11/2021 |
| **Actors:** | | Doctor assistant, Receptionist | | |
| **Description:** | | Icon let Doctor assistant enter session type and show it to Receptionist | | |
| **Trigger:** | | Doctor assistant or Receptionist clicks on session type icon. | | |
| **Preconditions:** | | Doctor assistant and Receptionist must have log in on the system so that they can edit the available appointments. | | |
| **Post conditions:** | | Session type is entered and presented to the receptionist | | |
| **Normal Flow:** | | 1-Doctor assistant logs in on the system and click on the icon session type.  2-Doctor assistant enters the type of session.  3- Receptionist logs in on the system and click on the icon session type.  4-The type of session will be shown to the receptionist. | | |
| **Alternative Flows:** | |  | | |
| **Exceptions:** | | Doctor assistant probably enters an inexistent session type then the system will show error message says that “inexistent session type please enters session type again”.  2a. in a step 2 if doctor assistant entered inexistent session type  1- Session type is disapproved.  2- Message to doctor assistant to re-enter session type.  3- Doctor assistant enter an inexistent session type.  4- Use Case resumes on step 3 of normal flow. | | |
| **Includes:** | |  | | |
| **Frequency of Use:** | |  | | |
| **Special Requirements:** | |  | | |
| **Assumptions:** | |  | | |
| **Notes and Issues:** | |  | | |

# 11 calculate profit

## 11.1 Feature Process Flow / Use Case Model

## 11.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | 11.1 | | | |
| **Use Case Name:** | calculate profit | | | |
| **Created By:** | Joseph Gamal | | **Last Updated By:** |  |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 24/11/2021 |
| **Actors:** | | Receptionist, doctor | | |
| **Description:** | | It calculates profit | | |
| **Trigger:** | | Import value of total incoming and total outcoming | | |
| **Preconditions:** | | 1. **Import value of total incoming from input income function** 2. **Import value of total outcoming from input outcome function** | | |
| **Post conditions:** | | 1. Doctor print a report of financial transactions | | |
| **Normal Flow:** | | 1. **Import value of total incoming from input income function** 2. **Import value of total outcoming from input outcome function** 3. **Calculate the profits by subtract outcome from income** 4. **Print report of financial** transactions | | |
| **Alternative Flows:** | | -------- | | |
| **Exceptions:** | | In step 3 of normal flow, if value of profit is negative   1. Send massage there are losing | | |
| **Includes:** | | UC-11.1.1, UC-11.1.2 | | |
| **Frequency of Use:** | | 2 | | |
| **Special Requirements:** | | Value of total income, value of total outcome | | |
| **Assumptions:** | | ----- | | |
| **Notes and Issues:** | | ----- | | |

# 11 calculate profit

## 11.1 Feature Process Flow / Use Case Model

## 11.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-11.1.1 | | | |
| **Use Case Name:** | Input incoming | | | |
| **Created By:** | Joseph Gamal | | **Last Updated By:** |  |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 24/11/2021 |
| **Actors:** | | Receptionist | | |
| **Description:** | | It allows receptionist input and calculate total incoming | | |
| **Trigger:** | | Import value of receipt from the session’s type function | | |
| **Preconditions:** | | 1. **The type of session must be input** | | |
| **Post conditions:** | | 1. Patient chooses a way to pay 2. Patient receives a receipt | | |
| **Normal Flow:** | | 1. Import cost from session’s type function 2. Receive the cash from patient 3. Save the process 4. Print a receipt for the patient 5. Calculate total income | | |
| **Alternative Flows:** | | A2. In step 2 of the normal flow, if patient choose to pay with visa   1. System checks the credit card 2. Input the password 3. Confirm payment process 4. Use Case resumes on step 4   B2. In step 2 of the normal flow, if patient choose to pay with PayPal   1. System checks the PayPal account 2. Input the password 3. Confirm payment process 4. Use Case resumes on step 4 | | |
| **Exceptions:** | | In A2 of alternative if password incorrect or card is expired   1. Failed payment process 2. Order enter password again or check card validation   In B2 of alternative if PayPal account is invalid   1. Failed payment process 2. Order enter account again or check password | | |
| **Includes:** | | 1. Session type 2. Payment | | |
| **Frequency of Use:** | | 1 | | |
| **Special Requirements:** | | Type of session | | |
| **Assumptions:** | | Save the cost of sessions to calculate | | |
| **Notes and Issues:** | | --------- | | |

# 11 calculate profit

## 11.1 Feature Process Flow / Use Case Model

## 11.2 Use Case(s)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-11.1.1 | | | |
| **Use Case Name:** | Input outcoming | | | |
| **Created By:** | Joseph Gamal | | **Last Updated By:** |  |
| **Date Created:** | 24/11/2021 | | **Last Revision Date:** | 24/11/2021 |
| **Actors:** | | Receptionist | | |
| **Description:** | | It allows receptionist input and calculate total outcoming | | |
| **Trigger:** | | Receptionist input the cost of bill | | |
| **Preconditions:** | | **----** | | |
| **Post conditions:** | | 1. System has the result of total outcome 2. Profit’s functions take the value of total outcome and calculate the profit | | |
| **Normal Flow:** | | 1. Input the cost of paid pills 2. System saves the process 3. Calculate the total of out come | | |
| **Alternative Flows:** | | ----- | | |
| **Exceptions:** | | ----- | | |
| **Includes:** | | ----- | | |
| **Frequency of Use:** | | 1 | | |
| **Special Requirements:** | | ----- | | |
| **Assumptions:** | | Receptionist input the cost of paid pills and what is this bill for | | |
| **Notes and Issues:** | | ----- | | |