1. **Employee Profiling**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Search employee profile | Search an employee profile | -Actor wants to look at the profile of an employee | Actor wants to look at the profile of an employee and find data that are needed to be updated | Doctor |  | There must be an existing employee profile | Profile doesn’t need to be updated | |  |  | | --- | --- | | Actor | System | | -The doctor wants to view the profile on an employee | - The system then will show the employee’s profile | | If the searched employee is not in the database then, the query will submit an error |
| Create new employee profile | Creates a new employee profile | -New employee has been hired | New employee has been hired and his profile is needed to be in the database | Doctor |  | The new employee must not be in the database | New employee profile has been created | |  |  | | --- | --- | | Actor | System | | -The doctor wants to add a new employee profile to the system | -after inputting all of the needed information, then the employee’s profile will be added to the database | | All needed information should be inputted and if not, creating the new profile will submit an error |
| Assign employee role | Assigning role to a new employee | -New employee | The new employee needs to have its role for the business | Doctor |  | The employee must not have a role yet | The employee is assigned to a specific role for the business | |  |  | | --- | --- | | Actor | System | | -The doctor will give the employee its role for the business | -The role given will reflect to the database | | The role given to the employee is open |
| Update employee profile | Updates the employee’s profile | -New job role  -New address  -change of name (if married)  -employee got fired | The employee got promoted/demoted or the employee got married and changed her name or the employee got fired | Doctor |  | Old employee information needs to be updated | All information about an employee is up-to-date | |  |  | | --- | --- | | Actor | System | | -The doctor will choose an employee and update its information | -The system will view all information about the employee  - All changes will reflect to the database | | If inputted information is incomplete, it will submit an error |

1. **Patient Profiling**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Search patient profile | Search a customer profile | -Actor wants to look at a patient profile | -Actor wants to check the patient profile and find the data that need to be updated | Nurse/  Secretary/  Doctor |  | There must be an existing patient profile | Profile doesn’t need to be updated | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary wants to view the profile on a patient | -The system will show the patient’s profile | | If the searched patient is not in the database then, the query will submit an error |
| Create new patient profile | Creates a new patient profile | -New patient | -New patient had a dental service in the clinic for the first time | Nurse/  Secretary/  Doctor |  | The patient must not be in the database | New patient profile has been created | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary wants to add a new patient profile to the system | -after inputting all of the needed information, then the patient profile will be added to the database | | All needed information should be inputted and if not, creating the new profile will submit an error |
| Create patient’s emergency contact person profile | Creates new patient’s emergency contact person profile | -New patient | -New patient had a dental service in the clinic for the first time | Nurse/  Secretary/  Doctor |  | The patient must not be in the database | New patient’s emergency contact person’s profile has been created | |  |  | | --- | --- | | Actor | System | | - The doctor/secretary wants to add a new patient profile to the system | -after inputting all of the needed information, then the patient profile will be added to the database | | All needed information should be inputted and if not, creating the new profile will submit an error |
| Update patient’s emergency contact person profile | Updates patient’s emergency contact person profile | -New emergency contact person  -New address or number of the emergency contact person | New emergency contact person information for the patient | Nurse/  Secretary/  Doctor |  | Old patient’s emergency contact person information needs to be updated | All information about the patient’s emergency contact person is up-to-date | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary will choose a patient’s emergency contact person and update its information | -The system will view all information about the patient’s emergency contact person  - All changes will reflect to the database | | If inputted information is incomplete, it will submit an error |
| Update patient profile | Updates patient profile | -New name  -New address | The patient has new information about himself/herself | Nurse/  Secretary/  Doctor |  | Old patient information needs to be updated | All information about the patient is up-to-date | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary will choose a patient and update its information | -The system will view all information about the patient  - All changes will reflect to the database | | If inputted information is incomplete, it will submit an error |
| Input patient teeth chart | Inputs patient teeth chart | -New patient | -New patient had a dental service in the clinic for the first time | Nurse/  Secretary/  Doctor |  | The patient must not be in the database | New patient’s teeth chart in his/her profile has been created | |  |  | | --- | --- | | Actor | System | | - The doctor/secretary wants to add a new patient profile to the system | -after inputting all of the needed information, then the patient profile will be added to the database | | If inputted information is incomplete, it will submit an error |
| Check patient teeth chart | Views patient teeth chart | -Actor wants to look at a patient’s teeth chart | -Actor wants to check the patient profile and find the data that need to be updated | Nurse/  Secretary/  Doctor |  | There must be an existing patient teeth chart | Profile doesn’t need to be updated | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary wants to view the teeth chart on a patient’s profile | -The system will show the patient’s teeth chart | | If the searched patient is not in the database then, the query will submit an error |
| Update patient teeth chart | Updates patient teeth chart | -New teeth type of a patient | The patient’s teeth type is now an adult type | Nurse/  Secretary/  Doctor |  | Old patient information needs to be updated | All information about the patient is up-to-date | |  |  | | --- | --- | | Actor | System | | -The doctor/secretary will choose a patient and update its teeth chart | -The system will view all information about the patient  - All changes will reflect to the database | | If inputted information is incomplete, it will submit an error |

1. **Finance management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| View expense details | View expense details | -Actor wants to see the details of a specific expense | -Showing the details of the expense | Nurse/  Secretary/  Doctor |  | There is a record of all expenses | Shows the specific expense details that the actor wants to see | |  |  | | --- | --- | | Actor | System | | -The actor will choose a date and/or time of an expense | -Shows the detailed information of an expense. | | -There are no expense records |
| View all listed expenses | View all listed expenses | -Actor wants to see all expenses | -Showing all expenses | Nurse/  Secretary/  Doctor |  | There is a record of all expenses | Shows the record of all expenses | |  |  | | --- | --- | | Actor | System | | -The actor will access the record of all expenses | -Shows the list of all expenses | | - There are no expense records |
| Add expense details | Adds expense details | -Actor wants to add new expense details | -Adding expense details | Nurse/  Secretary/  Doctor |  | The specific expense details must not be existed in the database | Creates new expense details | |  |  | | --- | --- | | Actor | System | | -The actor will input new expense details | -Adds new expense details to the database | | Expense details already existed |
| Calculate monthly savings | Calculates monthly savings | -Actor wants to know the monthly savings | Calculates and shows the monthly savings | Nurse/  Secretary/  Doctor |  | Monthly savings are not calculated | Shows the result of the calculation of the monthly savings | |  |  | | --- | --- | | Actor | System | | -The actor wants to calculate the monthly savings | -Solves and prints the monthly savings | | Monthly savings are already calculated |
| Add income details | Adds income details | -Actor wants to add new income details | -Adding income details | Nurse/  Secretary/  Doctor |  | The specific income details must not be existed in the database | Creates new income details | |  |  | | --- | --- | | Actor | System | | -The actor will input new income details | -Adds new income details to the database | | Income details already existed |
| View listed income | Views all listed income | -Actor wants to see all income | -Showing all income | Nurse/  Secretary/  Doctor |  | There is a record of all income | Shows the record of all income | |  |  | | --- | --- | | Actor | System | | -The actor will access the record of all income | -Shows the list of all income | | - There are no income records |
| View income details | Views income details | -Actor wants to see the details of a specific income | -Showing the details of the income | Nurse/  Secretary/  Doctor |  | There is a record of all income | Shows the specific income details that the actor wants to see | |  |  | | --- | --- | | Actor | System | | -The actor will choose a date and/or time of an income | -Shows the detailed information of an income. | | -There are no expense records |
| View all listed calculated savings per month | Views all listed calculated savings per month | -Actor wants to see all calculated monthly savings | -Showing all monthly savings | Nurse/  Secretary/  Doctor |  | There is a record of all monthly savings | Shows the record of all monthly savings | |  |  | | --- | --- | | Actor | System | | -The actor will access the record of all monthly savings | -Shows the list of all monthly savings | | - There are no monthly savings records |
| Record tools/items used | Record tools/items used | After successful treatment | Record used tools/items for stock out documentation | Nurse/  Secretary/  Doctor |  | Tool/items were used during the treatment | Tool/items used got documented | |  |  | | --- | --- | | Actor | System | | -The actor will record all of the items/tools that was used during the treatment | -- All of the inputted data will be reflected on the database  - The system will send all of the recorded data to the patient’s medication history and the stock-out database | | -No tool/items were used |

1. **After Treatment**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Record Services done | Record the services done after the treatment | After treatment | Records all of the services done to the patient and add it to the database for proper documentation | Nurse/  Secretary/  Doctor |  | The treatment was done | The successful treatment reflects to the patient’s medical record | |  |  | | --- | --- | | Actor | System | | -The actor will record the services done to the patient into his/her medication history | - All of the inputted data will be reflected on the database  - The system will send all of the recorded data to the patient’s medication history | | The patient did not/failed to go to the appointment |
| Record payment info | Record the payment information done by the patient | After treatment | Record the payment information done by the patient for proper documentation | Nurse/  Secretary/  Doctor |  | The payment is done | The successful payment reflects to the patient’s medical record | |  |  | | --- | --- | | Actor | System | | -The actor will record the payment info of the patient into his/her medication history | - All of the inputted data will be reflected on the database  - The system will send all of the recorded data to the patient’s medication history | | The patient did not/failed to go to the appointment |
| Calculate total payment | Calculate total payments needed to be paid by the costumer | After treatment | Calculate the service fee, consultation fee and other services availed by the patient | Nurse/  Secretary/  Doctor |  | The payment is being processed | The payment is ready to be processed | |  |  | | --- | --- | | Actor | System | | -The actor will input all of the fees needed to be paid | - The system will calculate the total amount needed to be paid | | The patient did not/failed to go to the appointment |
| Record meds prescription | Record the meds prescription given to the patient | After treatment | After the successful treatment, the doctor will give med prescription which will be recorded to the database | Nurse/  Secretary/  Doctor |  | The treatment is done | All of the doctor’s prescription will reflect to the patient’s medical record | |  |  | | --- | --- | | Actor | System | | -The actor will record the meds prescription given to the patient into his/her medication history | - All of the inputted data will be reflected on the database  - The system will send all of the recorded data to the patient’s medication history | | The patient did not/failed to go to the appointment |

1. **Appointment Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Add patient appointment information | Adding patient appointment details | Patient requested for an appointment | The patient requested for an appointment to cure his dental problems | Nurse |  | The patient is registered in the database | The patient will have his/her appointment in the decided schedule | |  |  | | --- | --- | | Actor | System | | -the actor will input all of the decided service, time sched, and chosen doctor of the patient | - All of the inputted data will be reflected on the database  - The system will send all of the recorded data to the patient’s medication history | | Patient does not exist in the database. |
| Show available service | Show available services | Setting up an appointment for the patient | Show available services offered by the clinic | Nurse |  | The patient wants to make an appointment | The patient will decide what services he/she will avail | |  |  | | --- | --- | | Actor | System | | -The actor will show the available services they offer to the patient | -show all available services that the clinic offers | | There are no available services for the time-being. |
| Add chosen service | Add chosen service | Setting up an appointment for the patient | Add the chosen service to the patient appointment details | Nurse |  | The patient decided what services he/she will avail | The patient agreed to avail the services he/she chose | |  |  | | --- | --- | | Actor | System | | -The actor will input the chosen services that the patient wants to avail. | -the system will then input the chosen service and record it on the database  - The system will send all of the recorded data to the patient’s appointment information. | | The chosen service is unavailable |
| Add appointment type | Add appointment type | Setting up an appointment for the patient | Add the appointment type to the patient appointment details | Nurse |  | The patient wants to make an appointment | The patient made an appointment | |  |  | | --- | --- | | Actor | System | | -The actor will input what type of appointment the patient wants | -the system will then input the data given and record it on the database  - The system will send all of the recorded data to the patient’s appointment information. | |  |
| Add chosen appointment schedule. | Add chosen appointment schedule. | Setting up an appointment for the patient. | Add the chosen appointment schedule to the patient appointment details. | Nurse |  | The desired service is inputted. | No conflicts to other appointment schedules. | |  |  | | --- | --- | | Actor | System | | -The actor will discuss to the patient when is his/her desired time schedule.  -The actor will input the chosen time schedule of the patient. | -the system will show all of the appointment schedules.  - The system will record the chosen time schedule of the patient.  - The system will send all of the recorded data to the patient’s appointment information. | | No conflicts to other appointment schedule, if there is conflict then repeat the use case. |
| Show available doctors | Show available doctors | Setting up an appointment for the patient | Show available doctors by the scheduled time slot | Nurse |  | The patient wants to choose the doctor he/she wanted to do the services | The patient can now decide on the Doctor he wanted. | |  |  | | --- | --- | | Actor | System | | -The actor will show the available doctors that can do the treatment | -The system will show the doctors that are currently available | | There are no currently available doctors for the chosen time and or chosen service |
| Add chosen doctor | Add the chosen doctor | Setting up an appointment for the patient | Add the chosen doctor to the patient appointment details | Nurse |  | The patient decided on the doctor he/she wanted | The doctor is free on the chosen time and can do the chosen service | |  |  | | --- | --- | | Actor | System | | -The actor will input the patient’s chosen doctor | -the system will then input the chosen doctor and record it on the database  - The system will send all of the recorded data to the patient’s appointment information. | | No conflicts on the doctor’s schedule and he/she can do the chosen service, if there is conflict and/or cannot do the chosen service, then repeat the use case. |
| Show patient appointment information | Show patient appointment information | Setting up an appointment for the patient | Shows patient appointment information for documentation purposes | Nurse |  | The patient has an appointment | The nurse can now disseminate the information to the doctor | |  |  | | --- | --- | | Actor | System | | -The actor will show the patient’s appointment information to the doctor | -The system will show the availed services, chosen doctor, and the time schedule of the patient | | The patient doesn’t have an appointment |
| Show appointment schedules | Show appointment schedules | -Check appointment schedules for the day | Shows all appointment schedules categorized by patient and date | Nurse |  | There are appointment schedules for the day | The nurse can now disseminate the information to the doctor | |  |  | | --- | --- | | Actor | System | | -The actor will look at the appointment schedules for the day | -The system will show the appointment schedules categorized by patient and date. | | There are no scheduled appointments for the day |

1. **Inventory Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Show inventory items | Shows inventory items | -Actor wants to see the items | Shows the inventory items | Nurse/  Secretary/  Doctor |  | There is a record of inventory items | Shows the list of inventory items | |  |  | | --- | --- | | Actor | System | | -Actor will access the records of inventory items | -The system will show the records of inventory items | | No records of inventory items |
| Add inventory items | Adds inventory items | New items | Adds new records of the new inventory items | Nurse/  Secretary/  Doctor |  | No existing records of the new inventory items | New inventory items added in the database | |  |  | | --- | --- | | Actor | System | | -Actor will input the new inventory items in the system | -New inventory items have records in the database | | New inventory items already existed in the database |
| Show item location | Shows item location | Actor wants to see the locations of the items | Shows the locations of each items | Nurse/  Secretary/  Doctor |  | Items are distributed and placed on their respective locations | Shows the exact location of a certain item | |  |  | | --- | --- | | Actor | System | | -Actor will search the location of an item | The system will show the location of the item searched by the actor | | Items do not have a location assigned to them |
| Show item quantity | Shows item quantity | Actor wants to know the quantity of an item | Shows the quantity of the item | Nurse/  Secretary/  Doctor |  | Items has a quantity to be shown | Shows the quantity of the item | |  |  | | --- | --- | | Actor | System | | -Actor will search an item to know its quantity left | The system will show the quantity of the searched item | | Items do not exist |
| Notify if item is low in stock | Notifies if item is low in stock | Actor wants to be updated of the quantity of an item | Notifies the actor if there is an item that is low in stock | Nurse/  Secretary/  Doctor |  | Item is low in stock | Notifies the actor about which item has low in stock | |  |  | | --- | --- | | Actor | System | | -Actor will wait for the system to notify if there’s an item that is low in stock | Notifies the actor if an item is low in stock | | Items do not exist |
| Show item status | Shows item status | Actor wants to know the status of an item | Shows the status of an item | Nurse/  Secretary/  Doctor |  | Item’s status is initialized or changed | Shows the status of the item | |  |  | | --- | --- | | Actor | System | | -Actor will search for an item to know its status | Shows the status of the searched item | | Items do not exist |
| Update inventory status | Updates inventory status | Actor wants to change the status of an inventory | Updates the status of the inventory | Nurse/  Secretary/  Doctor |  | Item’s status needs to be changed | New status for the inventory | |  |  | | --- | --- | | Actor | System | | -Actor will input a new status of an inventory | New status of an inventory | | If inputted information is incomplete, it will submit an error |
| Record stock in date | Records stock in dates | Actor wants to keep a record of the stock in dates | Records dates of stock ins | Nurse/  Secretary/  Doctor |  | No records of stock ins dates | New records of stock in dates | |  |  | | --- | --- | | Actor | System | | -Actor will input new record of a stock in dates | New record of stock in dates | | Same stock in date and item already existed in the database |
| Record stock out date | Records stock out dates | Actor wants to keep a record of the stock out dates | Records dates of stock outs | Nurse/  Secretary/  Doctor |  | No records of stock outs dates | New records of stock out dates | |  |  | | --- | --- | | Actor | System | | -Actor will input new record of a stock out dates | New record of stock out dates | | Same stock out date and item already existed in the database |
| Record stock out details | Records stock out details | Actor wants to keep a record of the stock out details | Records details of stock outs | Nurse/  Secretary/  Doctor |  | No records of stock outs details | New records of stock out details | |  |  | | --- | --- | | Actor | System | | -Actor will input new record of a stock out  details | New record of stock out details | | Same stock out details and item already existed in the database |
| Input expiration dates of perishable items | New perishable item | Actor wants to record the expiration date of an item | Records expiration date of an item | Nurse/  Secretary/  Doctor |  | No records of perishable items with expiration dates | New records of perishable items with expiration dates | |  |  | | --- | --- | | Actor | System | | -Actor will input new expiration dates of perishable items | New record of perishable items with updated expiration dates | | No perishable items in the inventory database |
| Check expiration date of perishable items | Checking the expiration dates of perishable items | Actor wants to check the expiration dates of perishable items | Viewing the expiration dates | Nurse/  Secretary/  Doctor |  | There are perishable items with expiration dates | Shows the list of expiration dates of perishable items | |  |  | | --- | --- | | Actor | System | | -Actor wants to view the expiration dates of each perishable items | Displays the expiration dates | | No perishable items with expiration dates |
| Disregard expired items | The expiration date is already exceeded | Time | Automatically stockouts the expired items | Database |  | There are perishable items with expiration dates | No expired items in the inventory | |  |  | | --- | --- | | Actor | System | | -The expiration date of a perishable item is exceeded by the current date | Removes the expired items in the database | | There are still no expired items |

**7. Accounts Management**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Use case name | Scenario | Triggering event | Brief description | Actors | Related use cases | Preconditions | Post conditions | Flow of events | Exception condition |
| Create admin account | Creates new admin account | -New admin | Creates a new admin account | Doctor |  | There is an admin account to create new accounts | New admin account | |  |  | | --- | --- | | Actor | System | | -Actor will create new admin account | -Creates new admin account | | No preexisting admin account |
| View admin account | Checks admin account | Actor wants to check admin account details | Checking admin account | Doctor |  | There is an admin account | Shows admin account details | |  |  | | --- | --- | | Actor | System | | -Actor will check the admin account | Displays the details of an admin account | | No other admin account |
| Create employee account | Creates new employee account | -New employee | Creates a new employee account | Doctor |  | There is an admin account to create new accounts | New employee account | |  |  | | --- | --- | | Actor | System | | -Actor will create new employee account | -Creates new employee account | | No preexisting admin account |
| View employee account | Checks employee account | Actor wants to check employee account details | Checking employee account | Doctor |  | There is an employee account | Shows employee account details | |  |  | | --- | --- | | Actor | System | | -Actor will check the employee account | Displays the details of an employee account | | No admin account |
| Disable employee account | Disables employee account | An employee leaves the clinic | An employee account would be inactive since the employee is no longer in the clinic anymore | Doctor |  | Employee account no longer has an owner | Inactive employee account | |  |  | | --- | --- | | Actor | System | | -Actor will disable the employee account | The employee account will be locked and hidden | | Employee is still working in the clinic |