

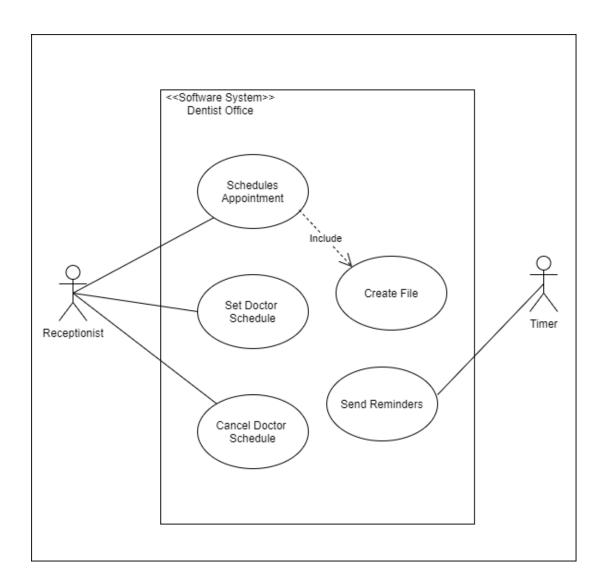
(Dentist Office System)

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1. Use Case Diagram for the System



December 17, 2020

1.1 Description for every use case

Use case Name : Schedules Appointment.

Summary: get info from Patients and save it to the system.

Actor: Receptionist

Precondition: the Patients have a file(inserted info).

Description:

1- The receptionist take patient info.

- 2- The receptionist schedule appointment for the patient with the desired date and time.
- 3- The system manages the appointment based on less than 30 minutes of the same doctor.
- 4- The receptionist save the appointment.

Alternative:

- The patient info may not clear.
- The time and date are not appropriate.

Postcondition: Take Appointments.

Phase 1

SE324-Software Architecture & Design

December 17, 2020

Use case name: Create File

Summary: Create a file for each patient upon scheduling first appointment.

Actor: Receptionist

Precondition: none

Description:

- 1- The receptionist enter the patient info to the system.
- 2- The system create a file through the info entered.
- 3- The system store the file which created.

Alternative:

- The receptionist may enter wrong info.
- The patient may gives wrong info.
- The system didn't store patient file.

Postcondition: create file for patient.

Use case name: Set Doctor Schedule

Summary: the Receptionist entered doctor working Schedules in the form on working days for each week.

Actor: Receptionist

Precondition: none.

Description:

- 1- The reception gets the doctors' working days.
- 2- the Receptionist entered doctor working Schedules.

Alternative:

• There is a change in working days for doctors.

Postcondition: Knowing the working days for doctors during the week.

Phase 1

SE324-Software Architecture & Design

December 17, 2020

Use case name : Cancel Doctor Schedule

Summary: the receptionist can cancel a doctor specific day schedule, or group of days, or the entire schedule.

Actor: Receptionist

Precondition: the receptionist enters doctors working schedule.

Description:

- 1- The Receptionist access to doctor working schedule.
- 2- The Receptionist remove a doctor specific day schedule, or group of days, or the entire schedule.
- 3- The System generate list of patient phone number who affected by cancellation.

Alternative:

• The receptionist couldn't access to doctor working schedule.

Postcondition: Remove schedule completed.

Use case name: Send Reminders

Summary: send reminders by email to patients when their appointment is getting closer.

Actor: Timer

Precondition: he/she have an email.

Description:

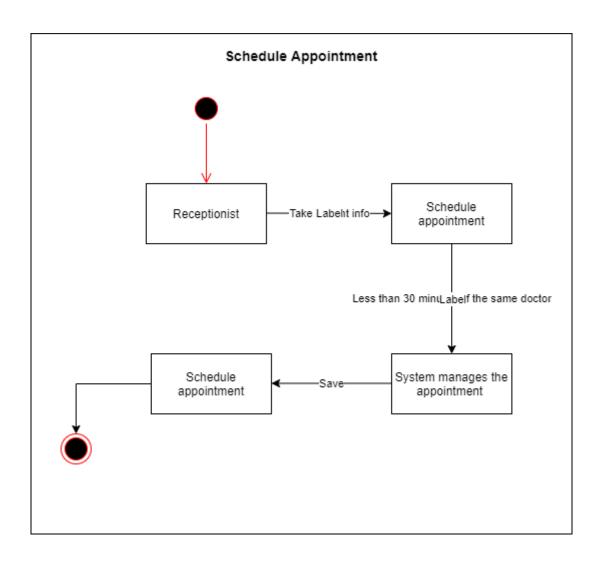
- 1- The system check the patient's email in his/her file.
- 2- The system send Reminders by email to patients.

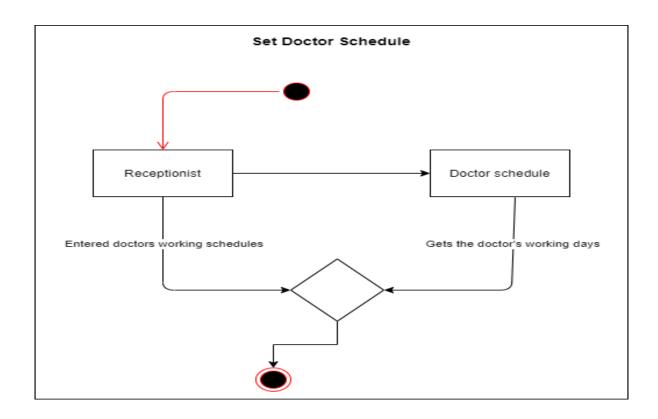
Alternative:

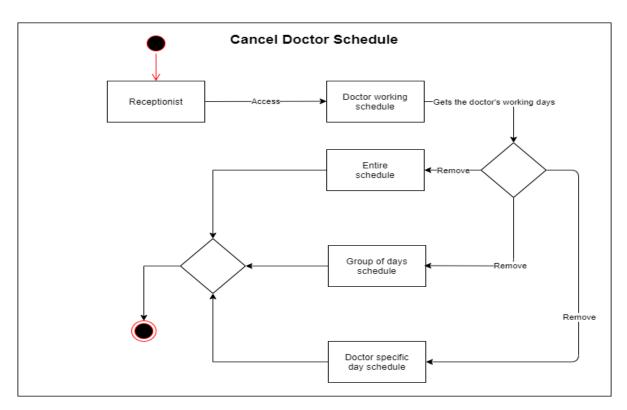
- The entered email was wrong.
- the patient don't have an email.

Postcondition: send a reminder message for patient.

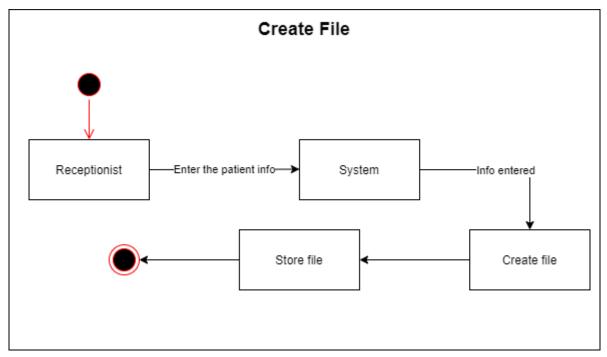
1.2 Activity Diagram for each use case description

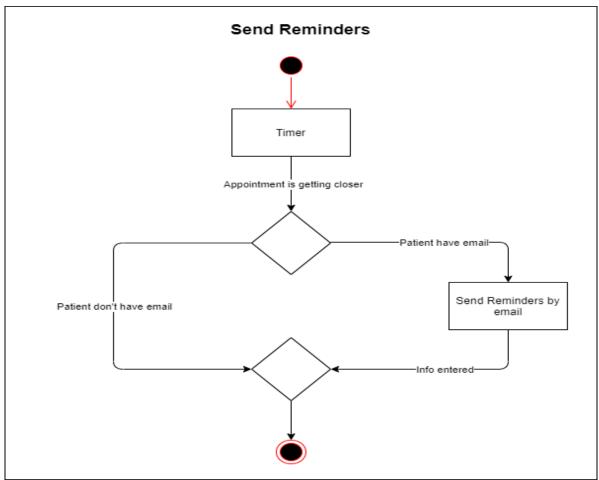






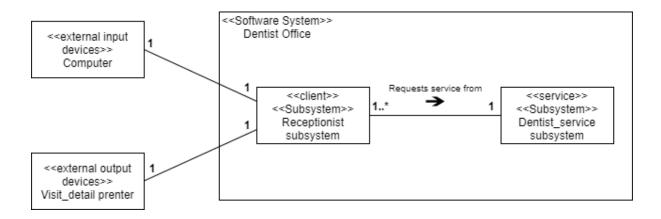
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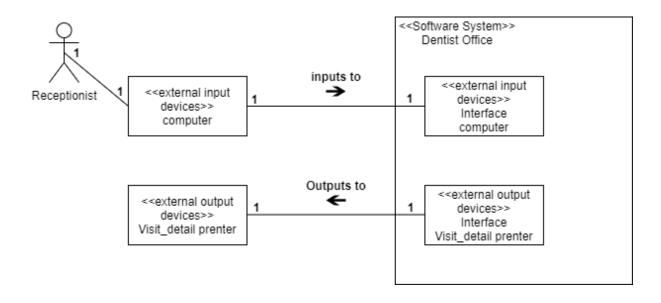


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2. System Context Model



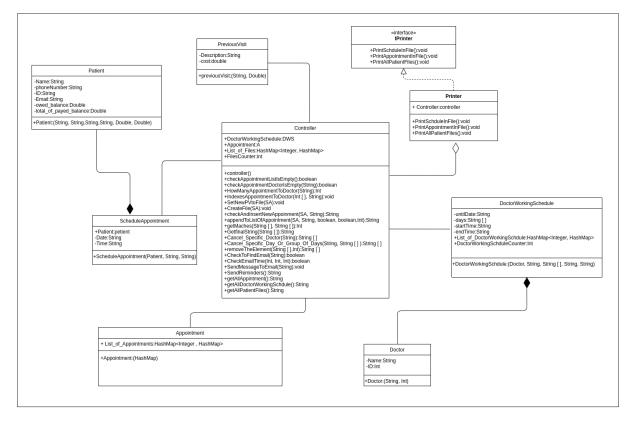
3. Boundary Class Diagram



4. Class Diagram:

Note:

- we merge point 4, 5 and 7 in one solution
- we draw the design based on Data Centred Pattern



5. sequence diagram for every use case:

