# **Answers Week 2**

C. Create a set of use cases for the following dentist office system...

	ID: _1_	Importance Level: High
pointment i	s made, o	r an existing appointment is
t, or change	e an existi	ng appointment.
Major O	utputs:	
Descript	ion	
	t, or change Major O Descript	_1_

Major Steps Performed	Information for Steps

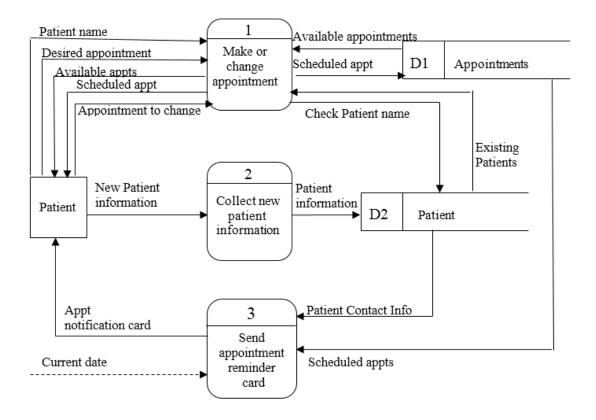
Use Case Name: Collect new patient information		ID:	Importance Level: High
		<u>-2</u> _	
Primary Actor: Patient			
Short Description: This describes how new patie arrives for an appointment.	ent informati	ion is colle	ected when a new patient
Trigger: New Patient arrives for appointment.			
Type: <b>External</b> / Temporal			
Major Inputs:	Major Ou	itputs:	
Description Source	Description Destination		

Major Steps Performed	Information for Steps

Jse Case Name: Send appointment reminder card		ID: <u>3</u>	Importance Level: Medium
Primary Actor: System			
Short Description: This describes how reminder appointment.	cards are se	ent to pation	ents two weeks prior to
Trigger: Time to send reminders two weeks before	scheduled a	appointme	nts.
Type: External / <b>Temporal</b>			
Major Inputs:	Major Ou	tputs:	
Description Source	Descripti Destinati		

Major Steps Performed	Information for Steps

#### D. Draw a level 0 DFD for the dentist office system in Exercise C.



E. Complete the use cases for the dentist office system in exercise B by identifying the steps and the data flows within the use cases.

Use Case Name: Patient make appointment	es or changes an	ID: _1_	Importanc	e Level: High
Primary Actor: Patient				
Short Description: This description changed.	ibes how a new appointment	is made, c	or an existing a	appointment is
Trigger: Patient calls to schedule	e new appointment or change	e an existii	ng appointmei	nt.
Type: <b>External</b> / Tempora	I			
Major Inputs:		Major (	Outputs:	
Description	Source	Descrip Destina		
<u>Patient name</u>	<u>Patient</u>			
Desired appointment	<u>Patient</u>	Schedule	ed appointmer	<u>nt</u> <u>Patient</u>
Appointment to change	<u>Patient</u>	Schedule	ed appt	Appt file
Available appointments	Appointment file	Available	e appts	<u>Patient</u>
Existing Patients	Patient file	Check Pa	atient name	<u>Patient file</u>

#### Major Steps Performed

- 1. Get patient's name. Check patient name with Patient file.
- 2. If new patient, get address and phone number and enter in new patient file entry.
- 3. If this is an appointment change, find current appointment in appointment file, and cancel it.
- 4. Get desired appointment time and match with available appointments in Appointment file. When a suitable time is found, enter scheduled appointment in Appointment file and confirm with patient.

#### Information for Steps

Patient name

Patient File

Address

Phone number

New Patient information

Appointment to change
Existing Appointments

Desired appointment
Available appointments
Scheduled appointments

Ise Case Name: Collect new patient information		ID: _2_	Importance Level: High	
Primary Actor: New Patient				
Short Description: This describes how new patient information is collected when a new patient arrives for appointment.				
Trigger: New Patient arrives for appointment.				
Type: <u>External</u> / Temporal				
Major Inputs:	Major Ou	itputs:		
Description Source	Descripti Destinati			
New Patient information Patient	Patient Info	ormation	<u>Patient file</u>	
(Includes name, address,	_			
Phone number and medical				
History)				

Major Steps Performed	Information for Steps
When the patient arrives, determine if he/she has been seen before in this office. If they have not, have them fill out a patient information form.	Patient status
Use the information on the patient information form to update and complete the patient's entry in the patient file.	Patient name Address Phone number Medical history

Use Case Name: Send ap	• •		ID: _3_	Importance Level: Medium
Primary Actor: System				
Short Description: This cappointment.	describes how reminder	cards are se	ent to patio	ents two weeks prior to
Trigger: Time to send remi	nders two weeks before	scheduled a	appointme	ents.
Type: External / <b>Temp</b>	<u>oral</u>			
Major Inputs:		Major Ou	tputs:	
Description	Source	Descripti Destinati		
Current date Scheduled appts Patient Contact Info	Calendar  Appt file  Patient file_	Appt notific	cation card	d <u>Patient</u>

Major S	Steps Performed	Information for Steps
	n day, find the appointments in the Appointment file for the day weeks ahead.	Current date Scheduled appointments
	pare and mail appointment notification card to all patients having ointments.	Name Address Appointment Appt notification card