

MOUNT DRUITT TAFE CAMPUS

Unit code	ICTPRG503	Unit name and release number	Debug and monitor application
	ICTPRG501		Apply Advance object oriented language skills
	ICTPRG527		Apply intermediate object oriented skills

Please note that TAFE NSW is required to retain copies of all completed assessments, where practical, for a *minimum* period of three (3) years (or in accordance with regulatory/licencing requirements) after the completion of a learner's studies. *Refer to procedure to determine the retention period required.*

Assessment Instructions		This is assessment event number 1 of 2	
Assessment overview	The aim of this assignment is to test the skills and knowledge required to design (using xml)develop and deploy application for hand held devices using Android as Development platform		
	<div><div>1. You need to have CRUD (create , update , delete , read operation) on appointment.</div><div>2. You need to have CRUD (create , update , delete , read operation) on Patient.</div><div>3. You need to have CRUD (create , update , delete , read operation) on Doctor.</div><div>4. The System should be able to display appointment on date or doctor</div><div>5. Connection to database(Mysql)</div><div>6. Show Inheritance to atleast one level</div><div>7. Use of Exception handling</div><div>8. Use of data Structure/Collection for sorting /searching data</div><div>9. Use of animation and 2D Graphics</div></div>		
Instructions for Assessment	<div>Write your name on each page of this assessment task</div> <div>Instruction are listed against each Task</div> <div>Please read the Task and Instruction carefully as instruction list the criteria to successfully complete this assessment.</div>		
Submission instructions	Students needs to submit the developed app in person		
What do I need to do to achieve a satisfactory result?	All criteria must be addressed to successfully complete this assessment event.		
Due date	26 th Nov 2018		

Assessment Instructions		This is assessment event number 1 of 2
Assessment feedback, review or appeals	Feedback must be provided to the you no later than 10 days after all assessment activities have been conducted.	
	If you want a review of your results or if you have any concerns about your results, you can contact the teacher/assessor or your Head Teacher.	
	You have three weeks from the date you receive your results in which to make an appeal and/or request a review.	
	You should receive a response within ten days of the receipt of the request.	
	Teachers and their Head Teacher will address any appeal in accordance with Assessment Guidelines for TAFE NSW.	

SUBMISSION COVER SHEET
AND DECLARATION

Learner number:		Learner name:	
Unit code:		Unit name:	
Assessment event number		Assessment title	
Learner declaration			
<p>This assignment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.</p> <p>No part of this assignment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.</p> <p>I understand that plagiarism in the presentation of the work, idea or creation of another person as though it is your own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assignment is plagiarised.</p> <p>I understand that TAFE NSW is required to retain copies of all my completed assessments, where practical, for a period of 3 years (or in accordance with regulatory/licencing requirements) after the completion of my studies</p>			
Learner Signature:		Date:	

SPECIFIC TASK INSTRUCTIONS

In the sections below, are the details of the report, major assignment, workplan, reflection, portfolio or other items this assessment task requires, as well as the criteria for satisfactory completion.

Scenario:

Brief Description of the System

Part 1:

This Medical Centre is a Sydney based general medical practice centre that provides general health services to people. The main services it provides to its patients are general health check, minor surgeries, and basic nursing to obtain sample blood for tests and wound dressings. At the moment it has about 5 doctors (GPs) on list, 1 psychologist, and 2 receptionists. 5 doctors are full time who sit in four separate chambers (rooms). The Psychologist attends 2 days a week in the spare consultation room.

The centre is currently maintaining physical record folder of each individual patient where new consultation service records are added when a patient visits a doctor. If a patient is visiting for the first time then the patient has to fill in a form to provide personal and medical history details, a new file is then created with the patient's name on the cover. All these record folders are kept in a series of file cabinets labelled A to Z with the patients' surname.

Patients are expected to make bookings prior to visiting the centre. This can be done with the receptionists either by making a phone call or visiting the centre. However, at times some patients are attended by the doctors without prior appointments. This only happens when a patient arrives with some sort of emergency or there are vacant slots available. The receptionists use a large pre-printed appointment sheet one per day and pencil all appointments on this sheet. Sometimes, the appointments may need to be re-scheduled due to the patients' inability to keep the previous appointment time or due to a doctor's absence due to sickness or some other emergency job. Receptionist do their best in rescheduling such appointments (not an easy and friendly task though!).

PROBLEM SUMMARY

In summary, THIS MEDICAL CENTER management lists the following as the problems in managing teams:

- Too much paper-work and documents to handle, the receptionist are overwhelmed with it.
- Lot of duplication of paperwork for doctors and receptionists
- Difficulty in dandling future growth
- No online access to prescription medication for doctors
- No online facility of receiving pathological tests from various pathological centres
- No easy reporting facility for doctors and patients
- Problem with appointments recording and rescheduling

THIS MEDICAL CENTER management wants to resolve these problems immediately by implementing a centralised system with local network connectivity and internet access with their recently installed NBN line. They want a computer in each doctor's chamber along with a printer, plus two computers for the receptionists with one printer.

They are seeking your assistance to this matter.

Part 2:

After getting the Software Requirements Documentation Report of the new system, THIS MEDICAL CENTER management hired an analyst who has studied the business but could not complete the analysis report. The analysis has been done in Object-Oriented methodology. The analyst's findings are listed below.

Business Functions and Process Rules

The following functions have been identified by the Analyst-

1. THE SYSTEM WILL STORE AND MANIPULATE APPOINTMENT DATA.

Description

The system must allow addition, deletion and modification of appointment records Managing Doctors Consultation

2. THE SYSTEM WILL STORE AND MANIPULATE PATIENT DATA.

Description

The system must allow addition, deletion and modification of patient records. Patient information to be included: name, address, multiple phone numbers (home, work, emergency)

3. THE SYSTEM WILL STORE AND MANIPULATE DOCTOR DATA.

Description

The system must allow addition, deletion and modification of Doctor/ Employee records. Doctor information to be included: name, address, multiple phone numbers (home, work, emergency)

4. THE SYSTEM WILL DISPLAY APPOINTMENTS.

Description

The system is to display all of the appointments from the current day to XX days hence

Please note, access to the system should be controlled by using different level of access for different type of users.

How a Patient Appointment is expected to manage

Patients are expected to make bookings prior to visiting the centre. This can be done with the receptionists either by making a phone call or visiting the centre. However, at times some patients are attended by the doctors without prior appointments. This only happens when a patient arrives with some sort of emergency, the patient is then squeezed into the current appointments or in a vacant slot if available. The receptionists should amend the appointments in the system for any such event. Sometimes, the appointments may need to be re-scheduled due to the patients' inability to keep the previous appointment time or due to a doctor's absence due to sickness or some other emergency job. Receptionist do their best in rescheduling such appointments (not an easy and friendly task though!) in the system. Pathological Sampling needs are subject to Doctor's advice and are optional to patients

Task 1: The system will store and manipulate appointment data
Instructions

The system must allow addition, deletion and modification of appointment records Managing Doctors Consultation

Marking Criteria or Suggestion solutions or Answers

Item	Criteria for competency
Create an appointment	Should be able to make appointment with valid patient details and doctor details
Delete an appointment	Should be able to delete an appointment with valid patient details and doctor details
Modify an appointment	Should be able to modify one appointment with valid patient details and doctor details
Read an appointment	Should be able to read appointment with on patient details or doctor details
Use of database	Successful connection to database along with CRUD operation
Use of animation/ 2D Graphics	Show animation on 2D/3D images anywhere in the project

Task 2: The system will store and manipulate patient data

Instruction

The system must allow addition, deletion and modification of patient records. Patient information to be included: name, address, multiple phone numbers (home, work, emergency)

Marking Criteria or Suggestion solutions or Answers

Item	Criteria for competency
Create a Patient	Validate all inputs to create a Patient
Delete a Patient	System should be able to delete a patient
Read a Patient	System should be able to show details of patient on key values.
Update a Patient record	System should be able to update the patient information when needed.
Use of database	Successful connection to database along with CRUD operation
Use of animation/ 2D Graphics	Show animation on 2D/3D images anywhere in the project

Task 3: The system will store and manipulate Doctor data.
Instruction

The system must allow addition, deletion and modification of Doctor/ Employee records. Doctor information to be included: name, address, multiple phone numbers (home, work, emergency)

Marking Criteria or Suggestion solutions or Answers

Item	Criteria for competency
Create a Doctor	Validate all inputs to create a Doctor
Delete a Doctor	System should be able to delete a Doctor
Read a Doctor	System should be able to show details of Doctor on key values.
Update a Doctor record	System should be able to update the Doctor information when needed.
Use of database	Successful connection to database along with CRUD operation
Use of animation/ 2D Graphics	Show animation on 2D/3D images anywhere in the project
Use of inheritance	Show single level inheritance in code.

TASK4: THE SYSTEM WILL DISPLAY APPOINTMENTS.**Instruction**

The system is to display all of the appointments from the current day to XX days hence

Marking Criteria or Suggestion solutions or Answers

Item	Criteria for competency
Today's appointment	Should be able to show today's appointment based on doctor or date.

Make sure you have written your name on each page of your submission before attaching the cover sheet and submitting to your teacher/assessor for marking