



## Programming II Formative Assessment 2 (Year End Assessment)

*Unit Standards covered :*

*115381 Apply the principles of creating a computer program using an OOP language in a GUI environment*

*116389 Write a technical report*

*114059 Demonstrate an understanding of estimating a unit of work and the implications of late delivery.*

*115392 Apply principles of creating computer software by developing a complete programme to meet given business specifications*

*115365 Apply the principles of designing computer system inputs and outputs*

### Instructions to Learner :

1. Learner needs to include all criteria evidence of all tasks.
2. The work handed in must be your own and valid.
3. Please take note that failing to adhere to the criteria of each task within this assessment will lead to an immediate NYC.
4. The learner must achieve a mark of 80% to be deemed as competent

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Learner Name and Surname :

Assessor Name and Surname :

Learner ID Number :

Date :

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## **Scenario**

Complete all of the following instructions. Also have a look at the mark sheet section to see how much each question counts to ensure you provide enough evidence to obtain a maximum mark.

You have to hand in a folder named Name\_Surname\_PRG512F2, which will contain all of the evidence as asked further on in this assessment.

*Company Name:* CTU – Care Treatment Unlimited

*Application Name:* CTU Care

### **Company History:**

Care Treatment Unlimited is a private care treatment facility that believes in giving only the best to our patients. We strive to make our patients feel at home in a tranquil atmosphere that assist in the healing process. We have only the best health care nursing staff working for CTU. We have a brilliant admin department that will do all the communication with your medical aid so you don't have to. We have been voted as the top health care facility in the country for three years standing.

### **Company Needs:**

They need an application that can assist them with their appointment system, filing system and their accounts system. The application will need role based security as only administrators can enter and save data and users should be able to view the data. The application also needs to keep track of the entire medical history of a patient.

### **Filing System:**

The administrator should be able to store information of the patients. They need to be able to save all the necessary information like Names, numbers, ID number, medical aid number, address etc. Every patient should have a file number. A user needs to be able to search for a patient by file number, ID number, medical aid number or name. When the user searches they only need to see the patient's most important information.

### **Accounts System:**

Every user needs to be linked to an account. This is where all the medical expenses will be calculated and a statement will be printed for the patient as well as emailed to the medical aid. Please keep in mind that should a patient be treated 3 times a year, he will have 3 statements.

### **History System:**

The patient's medical history needs to be kept. They need to be able to see which patients are in hospital at the current date and which has left. They also need to save all procedures executed and all medicines prescribed so that when a patient returns the doctor can easily see the medical history. The doctor along with the treatment needs to be logged so that CTU can see which doctor dealt with which patient.

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## Mark Sheet

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| 1) Filing System is complete and done according to the business requirements as set out in the plan. Correct naming conventions are used and comments are done through out the application. | 50\ |
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| 2) Accounts System is completed and done according to the business requirements as set out in the plan. Correct naming conventions are used and comments are done through out the application. | 50\ |
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| 3) Appointment System is completed and done according to the business requirements as set out in the plan. Correct naming conventions are used and comments are done through out the application. | 50\ |
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| 4) History System is completed and done according to the business requirements as set out in the plan. Correct naming conventions are used and comments are done through out the application. | 50\ |
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| 5) Database has been created and is in 3rd Normal form. | 50\ |
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| 6) Technical manual has been created and is correct. Also contains errors | 10\ |
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| 7) Plannig manual has been created and is correct. | 10\ |
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| 8) User manual has been created and is correct. | 10\ |
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<b><u>Total for assessment</u></b>	<b><u>280\</u></b>
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<b><u>Total percentage for assessment</u></b>	<b><u>100\</u></b>
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**Competency :**

**Competent**

**Not Yet Competent**

**Final Comment**