# **Assignment Cover Sheet**

Qualification		Module Number and Title	
		CSE 4002	
/Network Technology a	nd Cyber Security	Fundamentals in Programming	
Student Name & No.		Assessor	
		Mrs. Nisansala Athapaththu	
Hand over date		Submission Date	
Assessment type	Duration/Length of Assessment Type	Weighting of Assessment	
Coursework	3000 words	100%	

Learner declaration				
I,				
Marks Awarded				
First assessor				
IV marks				
Agreed grade				
Signature of the assessor		Date		
	•	<u> </u>	•	

# FEEDBACK FORM INTERNATIONAL COLLEGE OF BUSINESS & TECHNOLOGY

**Module: Fundamentals in Programming** 

Student ID:

Assignment: Writ1

Marks Allocated	Task 1	Task 2 (a)	Task 2 (b)	Task 2 (c)	Task 2 (d)	Task 2 (e)	Task 3	Total marks
	25	15	15	10	5	5	25	100
Marks Awarded								

Task	Feedback		
1			
2			
2			
3			
General			
Comment			
Comment			
		C'arat ar	D. L.
Assessor Name		Signature	Date

#### **Course Work and Practical Assessment**

This assignment is worth 100% of the overall assessment for this module.

## Learning outcomes covered

- LO1. Explain structured programming concepts
- LO2. Design a basic structured computer program
- LO3. Developed a modularized computer programme for a prepared design
- LO4. Compile software testing and documentation

#### Scenario

"Upcountry Warriors" is one of the very famous baseball clubs in the city. At present the club is growing very fast but maintains player details manually. They need a computerized approach to automate player information. Every player is assigned a player registration number and a player can select a maximum of 2 teams. New players are registered by the system and the system should take information such as player registration number, first name, last name, Date of birth, runs scored, etc...

You are required to develop a C++ Application that should store the information such as players, teams, etc... The program should have a user interface which facilitates following requirements:

## Main requirements are.

- Display players information
- Add new players
- Manage teams
- Search players

(More functionality can be included)

#### Other requirements are.

- User login.
- Logout.
- Exit.
- View Team Details.

Carefully investigate the given scenario and provide the proposed solution.

Attach softcopy of error free program with your documentation.

Keep all the backups

#### **Viva Evaluation TASKS**

- Task 01. Create system requirements specification and system design diagrams (flow charts) for core functions such as Display, Add and Search player Details according to given scenario. Use appropriate modularization to reduce the complexity of the design. (25 marks) (LO2)
- Task 02. Implement and submit a functional C++ program to meet the requirements given in the specification, by following the design created above. (50 marks) (LO3)
  - a) Evaluate the learner's ability to describe controlling structures used for the implementation with improved coding efficiency (i.e., sequence structure, selection structure and repetition structure). (15 marks) (LO1)
  - **b)** Identify the use of modularization with effective data passing between developed modules during the implementation. (15 marks) (LO1)
  - c) Evaluate the use file handling techniques used for storage and backup requirements and use of appropriate arrays, structs(records) used. (10 marks)
     (LO3)
  - d) Provide appropriate guidelines to user, apply validations for user inputs and improve user-friendliness of the software. (5 marks) (LO3)
  - e) Assess the ease of navigation between modules, accuracy, creativity and completeness of the system. (5 marks) (LO3)
- Task 03. Prepare a test document including test plan, test cases and test results. Conduct user acceptance testing and provide feedback with sample questionnaires used. (25 marks) (LO4)

## **Assessment Criteria**

Task 01- System Design (LO2)

This submission will be assessed as follows	<b>Total marks</b>	Marks obtained by	
Criteria	Allocated	the student for the	
	Out of 25	answer provided	
Excellent Design	19-25		
Excellent SRS given in detail			
Highly <b>detailed</b> diagram			
Use of modularization concepts clearly visible			
Excellent use of symbols			
Clarity and Reduce complexity of the design			
Backed by relevant assumptions			
Good Design	15-18		
Detail <b>SRS</b> including functional and non- functional requirements, data and file structure requirements			
• Flow charts following standard notations in flow charting and pseudo codes using proper structured English			
Accurate use of selection repetition structures			
Logical and continuous flow of instructions along the design			
Satisfactory Design	11-14		
Basic SRS including functional requirements			
Clear identification and application of symbols in flow charts			
Average level design diagrams given			
Poor Design	0-10		
Evidence of lack of understanding systems requirement specification			
Poor use of design tools and symbols			
Design diagrams with invalid flows, incomplete diagrams with logical errors			

 $Task\ 02-System\ Implementation\ (LO3)$ 

This submission will be assessed as follows	Total marks	Marks obtained by
Criteria	Allocated	the student for the
	Out of 50	answer provided
Excellent implementation	36-50	
• Excellent use of <b>control structures</b> with improved coding efficiency		
Use <b>file handling</b> techniques for storage and backup requirements		
• Excellent Modularization with effective data passing between developed modules.		
• appropriate guidelines given to user, user <b>input</b> validation and user-friendliness of software		
• Easy navigation between modules, <b>accuracy</b> , <b>creativity and completeness</b> of the system		
Good implementation	29-35	
Use of Comments to improve code readability		
• good use of <b>control structures</b> with proper understanding		
Modularize according to the given design.		
• Use of input validations, onscreen help options and User friendliness of the system		
Satisfactory implementation	21-28	
Operational system according to the requirements of the scenario		
<ul> <li>Average use of data types and operators</li> </ul>		
• Average use of <b>control structures</b> (selection and repetition)		
Poor implementation	0-20	
Poor implementation with syntax errors		
Lack of knowledge of the language basics used		
Cannot fulfill basic system requirements		

Task 03 - System Testing (LO4)

This submission will be assessed as follows	Total marks	Marks obtained by	
Criteria	Allocated	the student for the	
	Out of 25	answer provided	
Excellent Documentation	19-25		
• Excellent Test documentation with detail <b>test</b> plan and <b>test cases</b>			
<ul> <li>Acceptance test with proper questionnaire samples. Well analyzed user feedback which supports recommendations.</li> </ul>			
• <b>Testing conclusion</b> with critical review and future recommendations			
<ul> <li>Appropriate use of language and Standard report format followed</li> </ul>			
<ul> <li>Proper use of Referencing</li> </ul>			
Good Documentation	15-18		
• Detailed <b>Test Plan</b>			
• Appropriate <b>Test Cases</b>			
<ul> <li>Acceptance test with User feedback and test conclusion</li> </ul>			
Good documentation			
Satisfactory Documentation	11-14		
• Basic <b>Test Plan</b>			
• Average <b>Test Cases</b>			
Average documentation			
Poor Documentation	0-10		
<ul> <li>Lack of test plan, poor test cases</li> </ul>			
No proper evidence of testing			
Poor report formatting			

Total Marks	100	

This submission will be assessed as follows		Total marks Allocated	Marks obtained by the student for the answer provided
	a	15	
	b	15	
TASK 2	С	10	
	d	5	
	e	5	
TAS	SK 3	25	
TOT	ΓAL	100	

## **Submission Guidelines**

Submission format Report

■ Paper Size: A4

• Words: 3000 words

Printing Margins: LHS; RHS: 1 Inch

Header and Footer: 1 Inch

Basic Font Size: 12Line Spacing: 1.5

• Font Style: Times New Roman

Referencing should be done strictly using Harvard system

# Final Grading criteria :

Marks	Final Grade
>=70	Distinction
69-55	Merit
54-40	Pass
<40	Fail