Assignment Cover Sheet

Learner declaration

Qualification		Module Number and Title	
HD in Computing and Software Engineering		CSE 4002	
/Network Technology a	nd Cyber Security	Fundamentals in Programming	
Student Name & No.		Assessor	
		Mr. Bhanuka Fernando	
Hand over date		Submission Date	
20/07/2023		06/09/2023	
Assessment type Duration/Length of Assessment Type		Weighting of Assessment	
Coursework	Software Submission and demonstration	100%	

I, <a><a><a><a><a><a><a><a><a><a><a><a><a><		
Marks Awarded		
First assessor		
IV marks		
Agreed grade		
Signature of the assessor	Date	

FEEDBACK FORM INTERNATIONAL COLLEGE OF BUSINESS & TECHNOLOGY

Module

Student

Assessor

: CSE 4002

: Mrs. Nisansala Athapaththu

Assignment : Amber bakery automated billing system					
Assessor F	eedback:				
				Marks Awarded:	

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

Amber bakery is one of the very famous pastry shops in UK. They offer different kinds of cakes, desserts, breads, cookies like delicious bakery products and other wonderful items. Range of beverages and coffee is also available for their customers. Recently they have been involved in many celebrations like holiday, parties. And weddings.

Currently they use manual system to place order but now they need to make automated system to handle customer orders.

Assume that you are the system designer and developer of the Amber bakery automated billing system. Design and develop simple and efficient system to handle orders for Amber bakery customers

Main requirements are.

- View available bakery item details.
- Manage item and package details.
- Manage Sales details.

Other requirements are.

- User login.
- Logout.
- Exit.
- View Company 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. Present system requirements specification and logical diagrams for core functions such as Display, Add and Search bakery items 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	Total marks	Marks obtained by
Criteria	Allocated	the student for the
	Out of 25	answer provided
Excellent Design	19-25	
Excellent SRS given in detail		
Highly detailed 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 SRS 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 control structures with improved coding efficiency		
Use file handling techniques for storage and backup requirements		
• Excellent Modularization with effective data passing between developed modules.		
• appropriate guidelines given to user, user input validation and user-friendliness of software		
• Easy navigation between modules, accuracy, creativity and completeness of the system		
Good implementation	29-35	
Use of Comments to improve code readability		
• good use of control structures 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		
Average use of data types and operators		
• Average use of control structures (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 test plan and test cases			
 Acceptance test with proper questionnaire samples. Well analyzed user feedback which supports recommendations. 			
• Testing conclusion with critical review and future recommendations			
 Appropriate use of language and Standard report format followed 			
 Proper use of Referencing 			
Good Documentation	15-18		
• Detailed Test Plan			
• Appropriate Test Cases			
 Acceptance test with User feedback and test conclusion 			
Good documentation			
Satisfactory Documentation	11-14		
• Basic Test Plan			
• Average Test Cases			
Average documentation			
Poor Documentation	0-10		
 Lack of test plan, poor test cases 			
No proper evidence of testing			
Poor report formatting			

Total Marks	100	

This submissi assessed as fo	llows	Total marks Allocated	Marks obtained by the student for the answer provided
1710	7 T	23	
	a	15	
	b	15	
TASK 2	С	10	
	d	5	
	e	5	
TASK 3		25	
TOTAL		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: 12

■ Line 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