



Qualification		Module Number and Title	
HND in Software Engineering (Level 5)		SED5211 - Mobile Application Development	
Student Name & No.		Assessor	
		Mr. Sanaka Perera	
Hand out date		Submission Date	
17/03/2021		25/04/2021	
Assessment type	Duration/Length of Assessment Type	Weighting of Assessment	
Coursework	6000 words	100%	

Learner declaration

I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.

Marks Awarded	
First assessor	
IV marks	
Agreed grade	
Signature of the assessor	Date

FEEDBACK FORM INTERNATIONAL COLLEGE OF BUSINESS & TECHNOLOGY

Module:		
Student:		
Assessor:		
Assignment:		
Strong features of your work:		
Areas for improvement:		
	Marks Awarded:	

Coursework – Mobile Application for "The LOLA's cupcakes" – 100 Marks

Learving outcomes covred

- 1. Understand the principles of mobile application development
- 2. Be able to design mobile application solutions
- 3. Be able to implement mobile application solutions
- 4. Be able to test and document mobile application solutions

Scenario

"The LOLA's cupcakes" management has decided to implement a mobile application for their small bakery situated in Colombo. They have cupcakes for all occasions and rangers (Classic cupcakes, Themed cupcakes, Birthday cupcakes, Anniversary, New Baby, Valentine's day, Graduation, Mother's day etc.). And also they have special offers on the different seasons.

There are two type of users in the system

Administrative functions:

- Administrator can logging to the system and Add/modify cupcakes, prices ,description
- Process the order

Member functions:

- View the different categories of cupcakes with prices (based on the occasion, range, price, best sellers, special offers etc.)
- Placing order (only for the registered users)
- View order
- User registration and login

Provide a well-designed, user friendly system addressing the following features:

- System should have different authentication levels. (Administrator, members).
- Interactive user friendly interfaces.
- Clear implementation of the business flow via the system.
- Design & implement suitable sets of reports, which you think will add more value to the entire business.

Tasks

- a) Provide the UML for the given problem with clear explanations on the design decisions. (Use case and Class diagrams). (LO 1) (10 Marks)
- b) Design user interfaces to get the necessary user inputs. (LO 2) (20 Marks)
- c) Develop an interactive mobile application. Make sure to implement proper validation mechanisms in order to restrict invalid entries to the system. (LO 3) (40 Marks)
- d) Include test plan, test data and proper application of the test plan. Test your mobile application according to the test plan. (LO 4) (15 Marks)
- e) Create user and technical documentation for the developed solution. (LO 4) (15 Marks)

Guidelines for the report format

■ Paper : A4

Margins: 1.5" left, 1" right, top and bottom

Page numbers : bottom, right

■ Line spacing 1.5

• Font style : Times New Roman

Headings size : 14pt, Bold

Normal size : 12pt

Referencing and in-text citation should be done strictly using Harvard
 Referencing System.

Source code and installation package files should be submitted in a single zip file.

Assessment Criteria

Task (a) contain 10 marks.

Diagrams should be evaluated according to the following criteria.

Criteria	Marks	Marks obtained
Criteria	Out of 10	by the student for the answer provided
Poor		
Poor use of Design Methodology	0-4	
Poor diagrams, notations and relationships		
Pass		
Proper use of Design Methodology		
Use case Diagram		
Identification of correct use cases		
Identification of correct Actors and associations	4-6	
Class Diagram		
• Identification of associated methods, with correct		
signatures and attributes in each class		
Correct identification of relationships		
Good		
Average Design		
 Clear identification of private, public access modifiers & it is visible in the class diagram 		
 Accurate use of <<include> <<extend>> stereo types in use case diagram</extend></include> 		
Correct use of UML notations with minor mistakes	6-7	
Evaluation		
Student has given basic description about the design and		
given a reasonable justification		
• Effective judgments have been made about the content		
and levels of information to be included		
Excellent		
Excellent Design	7-10	
Highly detailed diagram		
Backed by relevant assumptions		

 Multiplicity, navigability aggregation & compositions visible in class diagrams 	
Excellent use of UML notation	
Evaluation	
 Good justification of the design 	
Judge validity of results	
 Use critical reflection to evaluate the work and justify with valid explanations 	
Fluency (Of design)	
• Evidence of critical analysis on different perspectives covering how, use case & class diagrams support in	
designing.	

Task (b) contains 20 marks

Criter	ia	Marks	Marks
		Out of 20	obtained by the student for the answer provided
Poor •	Poor database design/ data storing mechanism Poor interface design	0-8	
Pass	Use a database (simple design)/data storing mechanism Have simple user interface	8-12	
Good	More sophisticated database design and queries Good user interface design with proper alignments.	12-14	
Excell	ent More sophisticated UI, Control alignments, Color themes, appropriate icons, images. More sophisticated database design and queries	14-20	

Task (c) contains 40 marks

Criteria	Marks	Marks
	Out of 40	obtained by the student for the answer provided
Poor		
 Poor system implementation 	0-16	
Functions not working properly		
PassBasic data management system features.	16-24	
Good		
 More sophisticated data representation (e.g. several classes at business logic level) Standard coding structure. 	24-28	
Excellent		
 Complex functionality (Innovative aspects) 		
Reports being proposed to facilitate decision making.	28-40	
Effective use of database operations.		
Naming convention(Controls and Variables)		
Proper authentication system (user login and Security concerns)		

Task (d) contains 15 marks

Criter	ia	Marks	Marks obtained
		Out of 15	by the student for the answer provided
Poor			
•	Poor test plan and test cases.	0-6	
•	No conclusion		
Pass			
•	Simple test plan and test cases.	6-9	
•	Conclusion of each test case.		
Good			
•	Good test plan and test cases with average explanations	9-11	
•	Suitable test data used in testing.		
Excell	ent		

Good test plan and test cases with screen shots & average	11-15	
explanations.		
 Suitable test data used in testing. 		

Task (e) contains 15 marks

Criteria	Marks	Marks obtained
	Out of 15	by the student for the answer provided
Poor standard of documentation with poor explanations	0-6	
Acceptable standard of documentation with poor explanations	6-9	
High standard of documentation with screen shots & average explanations	9-11	
Professional standard of documentation with screen shots & good explanation	11-15	

Total Marks	Out of 100	
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