HIGHER COLLEGES OF TECHNOLOGY
Computer and Information Science

Non-Exam Based Assessment
Project Cover Sheet

Course Name	Cloud App Development	Course Code	CIA 3403
Date	18 April, 2018	Submission Date	02 May, 2018
Maximum Marks	100	Percentage of Final Grade.	25%

Student Name		**College**	
Student ID		**CRN**	

This assessment will assess the following Course learning outcomes:

Learning Outcomes	**CLO1**	**CLO2**	**CLO3**	**CLO4**
Question No.	Part 1, 2 and 3			Parts 1,2,3

- The entire project/case study/poster is designed and developed by me (and my team members).
- The proper citation has been used when I (and my team members) used other sources.
- No part of this project has been designed, developed or written for me (and my team members) by a third party.
- I have a copy of this project in case the submitted copy is lost or damaged.
- None of the music/graphics/animation/video/images used in this project have violated the Copy Right/Patent/Intellectual Property rights of an individual, company or an Institution.
- I have the written permission from people who are featuring in this project.

Student Signature: **Date:**

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Question No.	Project Design	Implementation	Oral Defense	Total
Marks Allocated	15	60	25	100
Marks Obtained				

Total Marks:

CIA3403 Cloud App Development Project

CLOs covered 1, 2, 3 and 4

Design and develop a cloud database, express.js application with routes, web pages using XHR and routes and build a mobile app also using the express routes

Part 1 – Project Design & Description Document [55 marks]

1. Description of the project (5 marks)

2. Design of cloud database – names of collections and hosting details (2.5 marks)

3. Design of the routes and the sample data returned by them (5 marks)

4. Architecture diagram with brief explanation (2.5 marks)

Part 2 - Game implementation using Canvas and JavaScript [50 marks]

1. Use a cloud database to store data (such as mLab, Firebase etc.) [10 marks]

2. Use node.js and express.js to build at least five routes using your cloud database including one for adding data to the cloud data and one for updating data on the cloud data [20 marks]

3. Build web pages to display the data using the routes – use XHR [10 marks]

4. Build a mobile app to show the data in cloud data using different REST API routes add one screen to add the data and one screen to update data [20 marks]

Part 3 – Presentation and Oral Exam [25 marks]

1. Individual Presentation [5 marks]

2. Individual viva [20 marks]

Instructor to ask five questions to the student individually on cloud database, node.js, express, XHR, and React native etc. and rate the responses on a scale of 1 – 4

Marking Criteria:

Part 1 – Project Design and Description Document	Mark	Score
1. Description of the project	5	
2. Design of the cloud database – include hosting details	2.5	
3. Design of the routes and their sample data returned	5	
4. Architecture diagram	2.5	
Part 1 Total	**15**	
Part 2 – Implementation	**Mark**	**Score**
1. Use a cloud database to store data (such as mLab, Firebase etc)	10	
2. Use node.js and express.js to build at least five routes using your cloud database including one for adding data to the cloud data and one for updating data on the cloud data	20	
3. Build web pages to display the data using the routes – use XHR	10	
4. Build a mobile app to show the data in cloud data using different REST API routes add one screen to add the data and one screen to update data	20	
Part 2 Total	**60**	

Part 3 – Presentation and Viva	Marks	Score
Presentation and Explanation of the project and its implementation	5	
Viva Question 1	4	
Viva Question 2	4	
Viva Question 3	4	
Viva Question 4	4	
Viva Question 5	4	
Total	**25**	