Individual Assessment Coversheet

To be attached to the front of the assessment.

Campus: TygerValley

Faculty: Information technology

Module Code: ITEHA

Group:

Lecturer's Name:

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Student Number: DV.2022.C8H0M3

Indicate	Yes	No
Plagiarism report attached	yes	

Declaration:

I declare that this assessment is my own original work except for source material explicitly acknowledged. I also declare that this assessment or any other of my original work related to it has not been previously, or is not being simultaneously, submitted for this or any other course. I am aware of the AI policy and acknowledge that I have not used any AI technology to generate or manipulate data, other than as permitted by the assessment instructions. I also declare that I am aware of the Institution's policy and regulations on honesty in academic work as set out in the Conditions of Enrolment, and of the disciplinary guidelines applicable to breaches of such policy and regulations.

Signature	**Date**

Lecturer's Comments:

Marks Awarded:	**%**

Signature	Date

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QUESTION 2

For this platform I went with the Asp.Net MVC architecture for the simple reason of trying new things. I had never used this architecture before and wanted to see how I would do with it. This did in turn mean that I was in unfamiliar waters when it came to trying to figure it out. This is clear in some of the design choices I made.
For the database for this project I chose to use Microsoft Sql server, another thing was new to but non the lease made it work.

For the database I chose to have a table for customers, products, cart(to be implemented later), orders, shipment. These are the 5 tables I chose to use for my project. The customers table would store all the customer data, the products all the product data, the cart would store the cart, the orders would store the orders and what was in them and to who, an the shipment would store to where the orders were going.

For the reading from the database I chose to have the models and dbcontext within the project itself but did include the option to switch the processes of the project out to different services, these files are stored within the same project and are in working order to comminicate with the specific table that corelates to them. They can be impleted when needed.

For the visual aspect of the service I chose to go for a simple home page and login aswell as products to lessen the chance of a component breaking by adding to much extra.

The main elements within the project are the admin and login page. The login page dictates what the user will see and if they have access to the normal store page and or the admin page. And the admin page is what allows for more products to be added. These two play the biggest role in the project as they are what makes the project what it is. The SA-Onlinemarket.

Some of the tradeoffs I had to consider when cosing some of the design choices are:

In the database I tried to limit the amount of tables I have to reduce the complexity of the project but that does mean I am limited on the amount of data I can store, only storing the essentials.

Merging some of the models and controllers, I made the choice to merge some of the controllers an models to help with making the project a lot less complex but does run the risk that if one fails they all fail. The files are in place to move them to there own models and controllers.

QUESTION 3

AWS(Amazon Web service). This is one of the most renouned web service platforms in the world and is used by many different companies at this point, they have been proven to work and and allow for personlized customization of the service you wll be getting. AWS offers a stable and reliabile solution.

For SA-Onlinemarket I feel that this would be a suiteable cloud computing solution as they have servers in south africa which will help reduce the latency of any reqeusts coming to the server and give a better over all user experience. On top of that is that AWS has proven to be very thorugh in ensuing that there customers always have access to there products and that there are no down time or loss of data on there part.

So with the fact that AWS is scalible, reliabile, and that it works, on top of the other things thet have implemented to ensure that everythin runs smoothly for the customers I feel that it would be the best choice for SA-Onlinemarket.