**USM’s Shriram Mantri Vidyanidhi Info Tech Academy**

**Microsoft .Net Final Practical Test**

**Duration 3 Hours:**

**Open Book Lab Test**

**Date:26th November 2020**

Q1. Create a MVC project

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| --- | --- | --- | --- | --- | --- |
| Home | Contact Us | List Product | Search | Login | Logout |
| Welcome: | | | | | |
| Copyright @ Acharya Ketki | | | | | |

Home: display images and company profile

Contact Us : Display address of company

List Product: display list of product name and image

Login : when user logged in put user name in cookies and in session.

Logout: just a hyper link

When user login it should enable link Search.

List of product is always visible irrespective of login.

Search : it will allow user to search product and it should display all product detail ie. Price , name, image.

Logout : it should destroy session.

Q2. Create a table Employee having column :Id, Name, Salary. Write strongly type insert, Which will store object in database. Write two Method.

a. public Employee Search(int Id)

b. public List<Employee>Search(String name)

Crate a BusinessLayer class for search and insert.

Write parameterised query or store procedure to avoid SQL Injection.

Q3. Create Console Appplication.

Create a abstract class Account having member

a. Id [ Let your application generate id, it is readonly]

b. Name [write getter, setter Method]

c. Balance [write getter , setter, you can not set value outside class other than child class]

It has two methods

1. public abstract withdraw(double amt);

2. public void Deposit(double amt) {}This method will increase amount in balance.

Create two child class SavingAccount and CurrentAccount.

In CurrentAccount user can have negative balance.

In SavingAccount minimum balance of 1000 need to maintain. Declare const double minbala=1000

When use withdraw money they should get SMS and EMAIL about new balance and amount withdrawn. When you run application it should display name of bank. Create Array of Account class and store child Object. Your application should allow you to create only 5 object.

Q4. Write WebAPI- REST API application using Entity Frame work. For this task Create table Product having column Id, Name, Qty, Price. Let your API display all product. Insert record using Postman.