

Enterprise Application Development

(BCS F18 Morning)

Assignment # 1

Submission Deadline: Monday **1 November 2021**

Email Subject: **EAD_Assignment_1_Roll_No**

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Instructions:

- Indent your code properly.
 - Use meaningful variable names. Use camelCase notation.
 - Use meaningful prompt lines/labels for all input/output.
 - **This is an individual assignment. You are NOT allowed to work/submit in the form of group. Absolutely NO collaboration is allowed. Any traces of plagiarism/cheating would result in an "Zero" in this assignment.**
 - You have to submit a zip file having roll no as name(EAD_ASG2_BITF17M000.zip).
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Task 1:

Design the following screen:



Task 2:

Consider the **MAIN SCREEN**:



If user press the **NEW USER** button then following screen must be displayed.

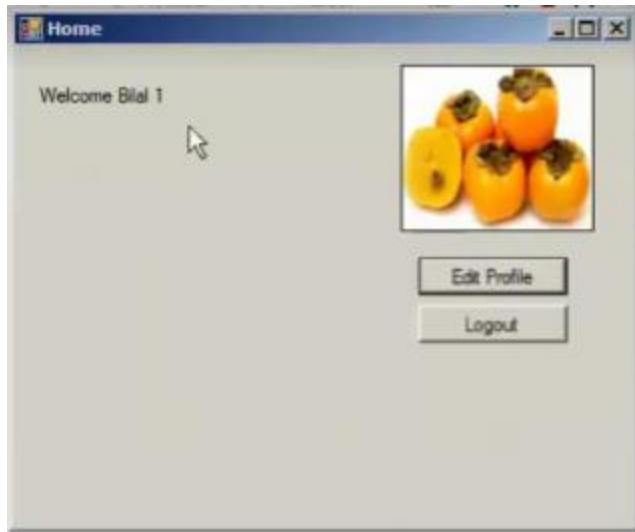
The image shows a 'New User' registration window. It contains the following fields and controls:

- Name: Text input field
- Login: Text input field
- Password: Text input field
- Email: Text input field
- Gender: Dropdown menu
- Address: Text area
- Age: Spinner box (set to 0)
- NIC: Text input field
- DOB: Date picker (set to Wednesday, October 19, 2016)
- Sports: Checkboxes for Cricket, Hockey, and Chess
- Profile Picture: Large empty box with an 'Upload' button next to it
- Buttons: 'Create' and 'Cancel' at the bottom

This screen must be opened up. User have to fill in all fields and upload a picture as well. **You have to put validations on all fields and none of the fields or the image box must be left emptied.** You can use to display a **MESSAGE BOX** in case user press **CREATE** without filling in all the fields. Moreover if the Login already exist in the email the user account should not be created and must be displayed a message that **“User Already Exist”**.

Note: all these entries are to be made in **dbo.Users** in database (look at end of assignment).

Next when user have entered all fields and press **CREATE** you are to close this screen and open up the following screen.



Here if the user clicks on the **LOGOUT** button simply close this screen and return to **MAIN SCREEN**.

However if user press the **EDIT PROFILE** Button then following Screen must be displayed:

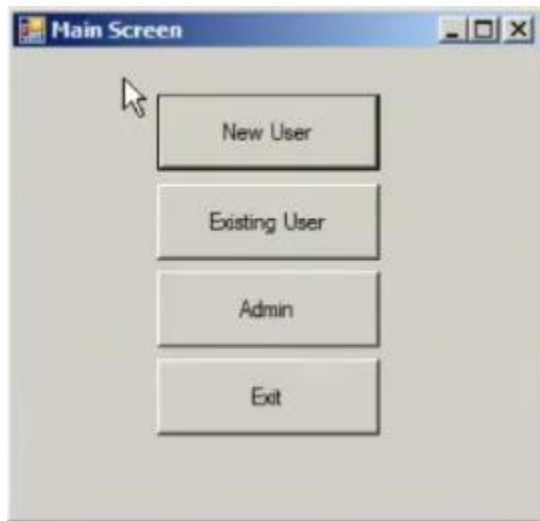
A screenshot of a web application window titled 'New User'. The window contains a registration form with the following fields: 'Name' (text input with 'Bilal 1'), 'Login' (text input with 'bilal1'), 'Password' (password input with masked characters), 'Email' (text input), 'Gender' (dropdown menu), 'Address' (text area), 'Age' (spin box with '0'), 'NIC' (text input), 'DOB' (calendar dropdown showing 'Wednesday, October 19, 2016'), and 'Sports' (checkboxes for 'Cricket', 'Hockey', and 'Chess'). To the right of the form is a large empty box for a profile picture and an 'Upload' button. At the bottom of the form are 'Create' and 'Cancel' buttons. A mouse cursor is pointing at the 'Name' field.

Here if user clicks **CANCEL** no changes are made to the profile else if create is clicked then update all the fields for which values were provided.

Pressing either the button must also close this window and get back the **HOME SCREEN**.

Task3:

Consider the **MAIN SCREEN** again:



Now if user press the **EXISTING USER** button following **LOGIN SCREEN** must be shown.

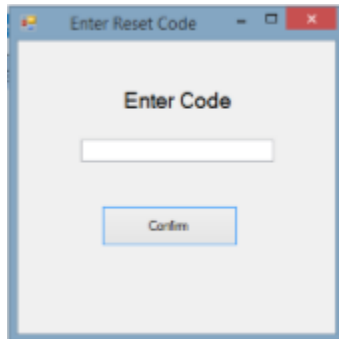


Now if user Press **CANCEL** get back to **MAIN SCREEN**.

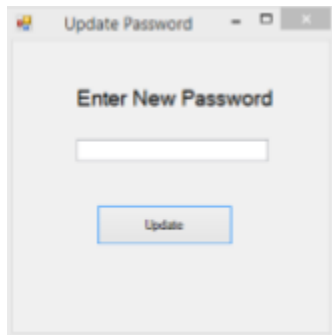
If User Press **LOGIN** then first validate all fields. Then check for a matching Login and password. If no match found then display Error Message else go to **HOME SCREEN** which is described in task2.

If user press **RESET PASSWORD** then if email address exists, a code will be sent on that email else display Error Message.

Next a reset password screen would be shown where user will enter that code in "**Reset Password**" Field.

A screenshot of a Windows-style application window titled "Enter Reset Code". The window has a light gray background and a blue border. Inside, the text "Enter Code" is centered at the top. Below it is a white text input field. At the bottom center is a blue button with the text "Confirm" in white.

If correct code is entered, user will see password field, user will provide new password in the field and will click on update, then password in **dbo.Users** against that user will be updated.

A screenshot of a Windows-style application window titled "Update Password". The window has a light gray background and a blue border. Inside, the text "Enter New Password" is centered at the top. Below it is a white text input field. At the bottom center is a blue button with the text "Update" in white.

User will be than redirected to HOME screen.

Task 4:

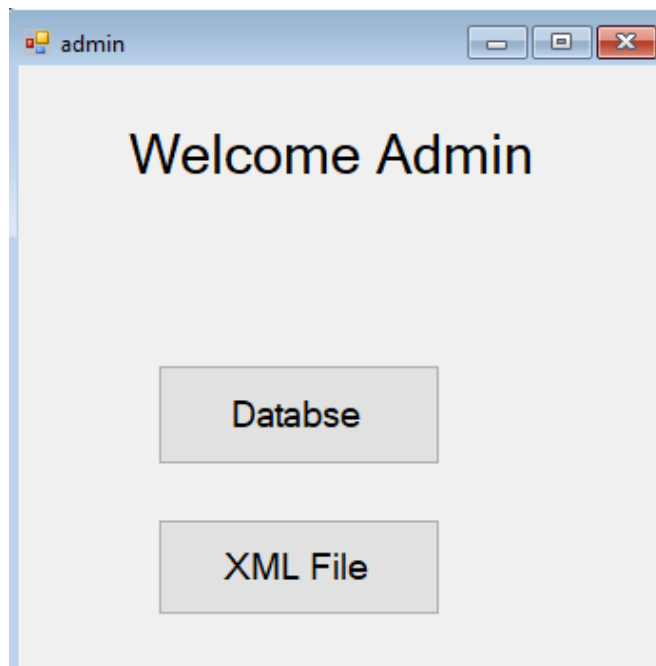
Consider the **MAIN SCREEN** again:



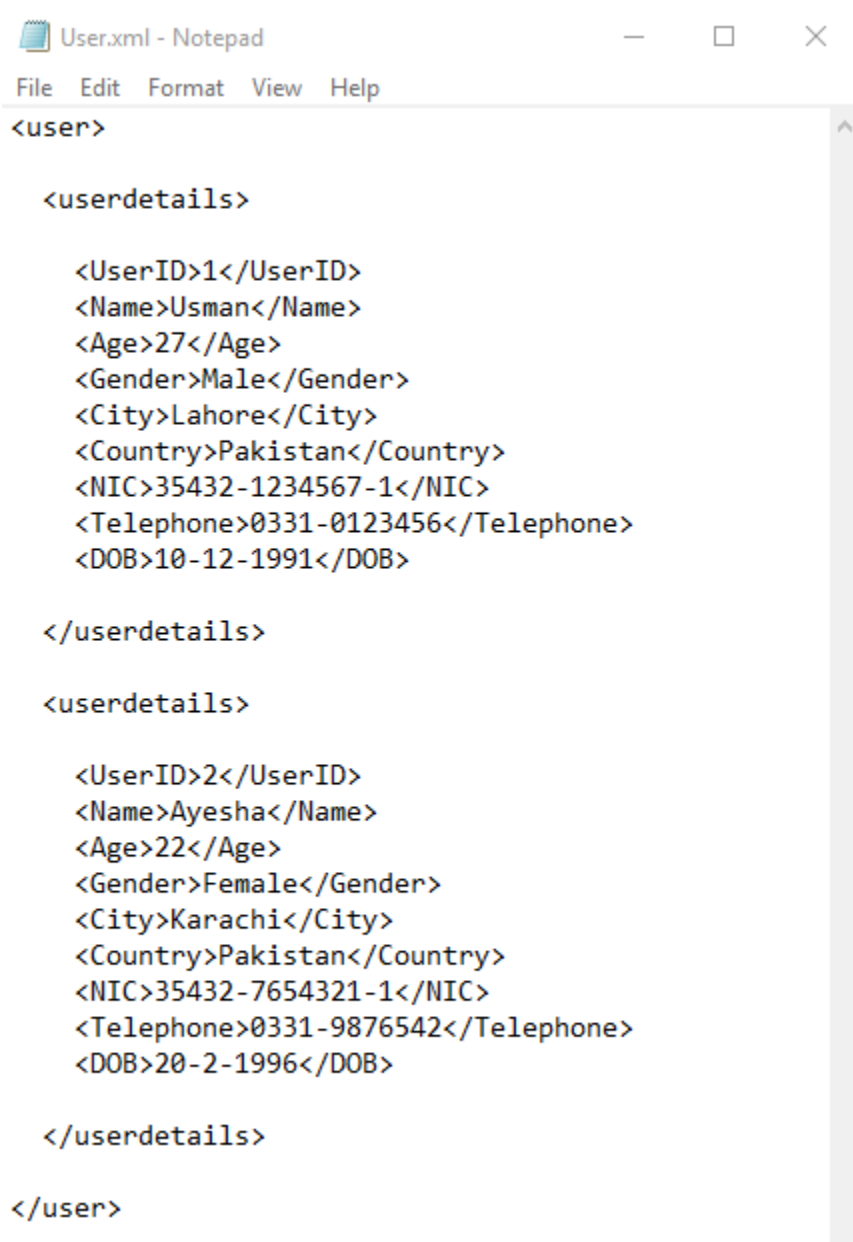
Now if the user press **ADMIN** then following screen must be displayed:



If user press **CANCEL** get back to **MAIN SCREEN**. Else if user press **LOGIN** Validate then look for a matching record in the **dbo.Admin** (for details look at the end of assignment). If Admin does not exist then display **Error Message**. Else following screen must be displayed:



You have to create **User.xml** and save 10 user's data into it.(Hardcoded) As Given Below:



```
<user>

  <userdetails>

    <UserID>1</UserID>
    <Name>Usman</Name>
    <Age>27</Age>
    <Gender>Male</Gender>
    <City>Lahore</City>
    <Country>Pakistan</Country>
    <NIC>35432-1234567-1</NIC>
    <Telephone>0331-0123456</Telephone>
    <DOB>10-12-1991</DOB>

  </userdetails>

  <userdetails>

    <UserID>2</UserID>
    <Name>Ayesha</Name>
    <Age>22</Age>
    <Gender>Female</Gender>
    <City>Karachi</City>
    <Country>Pakistan</Country>
    <NIC>35432-7654321-1</NIC>
    <Telephone>0331-9876542</Telephone>
    <DOB>20-2-1996</DOB>

  </userdetails>

</user>
```

If Admin click on **XML File** button then you have to read data from xml file and display it in the **GridView**. If admin presses **Logout** button go back to main Screen.

Form1

Reading Data From XML File

	UserID	Name	Age	Gender	City	Country	NIC	Telephone	DOB
▶	1	Usman	27	Male	Lahore	Pakistan	35432-1234567-1	0331-0123456	10-12-199
	2	Ayesha	22	Female	Karachi	Pakistan	35432-7654321-1	0331-9876542	20-2-1996
*									

If admin click on **Database** button then this screen should be display.

Admin Home

Users

	UserID	Name	Login	Address	Age	Edit
▶	1	Bilal 1	bilal1	Lahore 1	30	Edit
	2	Bilal 2	bilal2	Lahore 2	30	Edit
	3	Bilal 3	bilal3	Lahore 3	30	Edit

This screen shows all records from the **dbo.Users**. If the admin clicks **LOGOUT** then go back to **MAIN SCREEN**. However if user presses the **Edit** button for any record then following screen must be open where admin can change that record:

The image shows a 'New User' form window. It contains the following fields and controls:

- Name: Text input field with 'bilal' entered.
- Login: Text input field with 'bilal1' entered.
- Password: Text input field with masked characters.
- Email: Text input field.
- Gender: Dropdown menu.
- Address: Text area.
- Age: Spin box with '0' entered.
- NIC: Text input field.
- DOB: Date picker showing 'Wednesday, October 19, 2016'.
- Sports: Checkboxes for 'Cricket', 'Hockey', and 'Chess'.
- Upload: Button next to a placeholder image box.
- Create: Button at the bottom left.
- Cancel: Button at the bottom right.

This screen looks like the **New User** Screen before but in the case when opened by Admin all the fields must be filled out with values from the record from **dbo.Users**.

In this case if Admin press **CANCEL** then close Screen and get back to **Admin HOME SCREEN**. Else make the required changes in **dbo.Users** and return to **Admin HOME SCREEN**. (perform all validations on data being entered)

Instructions:

The name of your database must be **Assignment2**. You are to create the following two tables in your database:

- 1.) **dbo.Users** having following structure:

	Column Name	Data Type	Allow Nulls
	UserID	int	<input type="checkbox"/>
	Name	varchar(50)	<input type="checkbox"/>
	Login	varchar(50)	<input type="checkbox"/>
	Password	varchar(50)	<input type="checkbox"/>
	Gender	char(1)	<input type="checkbox"/>
	Address	varchar(50)	<input type="checkbox"/>
	Age	int	<input type="checkbox"/>
	NIC	varchar(20)	<input type="checkbox"/>
	DOB	date	<input type="checkbox"/>
	IsCricket	bit	<input type="checkbox"/>
	Hockey	bit	<input type="checkbox"/>
	Chess	bit	<input type="checkbox"/>
	ImageName	varchar(50)	<input type="checkbox"/>
	CreatedOn	datetime	<input type="checkbox"/>
			<input type="checkbox"/>

Column Properties	
<input type="checkbox"/> Identity Specification	Yes
(Is Identity)	Yes
Identity Increment	1
Identity Seed	1
Indexable	Yes

2.) **dbo.Admin** having following structure:

	Column Name	Data Type	Allow Nulls
	AdminID	int	<input type="checkbox"/>
	AdminName	varchar(50)	<input type="checkbox"/>
	Login	varchar(50)	<input type="checkbox"/>
	Password	varchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Column Properties	
Deterministic	Yes
DTS-published	No
<input type="checkbox"/> Full-text Specification	No
Has Non-SQL Server Subscriber	No
<input type="checkbox"/> Identity Specification	Yes
(Is Identity)	Yes
Identity Increment	1
Identity Seed	1
Indexable	Yes

Note:

For submission delete the bin, obj and packages folders from your project and then zip it.

If the instructions regarding to creation of database or the format of submission of assignment are not followed then you will be marked 0 as none of the excuses would be entertained this time.