

# CIS 411

## Home Assignment # 1

### Instructions

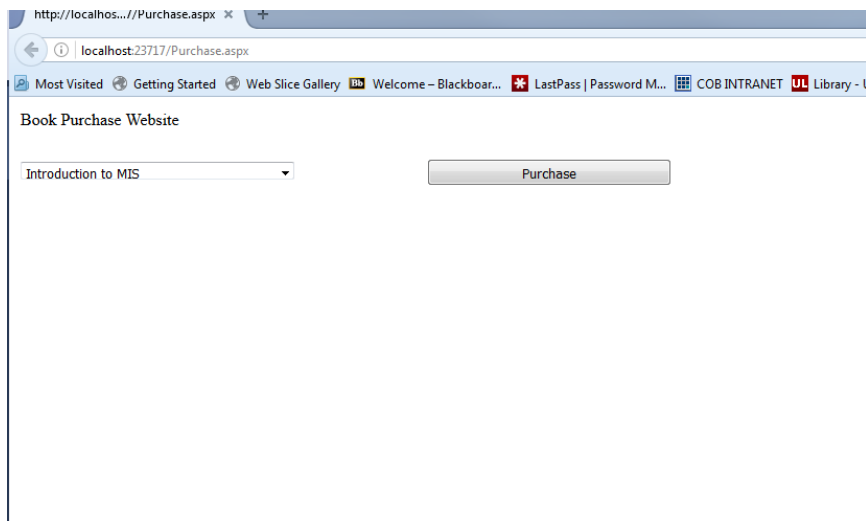
Several screen shots are provided below to show how the website should look like. You have to develop Web applications that achieve the functionalities mentioned in the questions.

You will be evaluated for the functionality and not so much for the look and feel (unless they look dirty!). Follow the standard procedures we did in the class for creating a table (grid) to arrange the controls in the right places. Dimensions in the tables are not important.

**Submission: Create projects for each question. Even when a question builds on the previous question, keep separate projects.** Once you are finished, copy all the projects (directories containing your code, i.e., directories containing individual “.sln” files and other sub-directories along sides, as shown in the class) to a new directory named “HA1”. Zip “HA1” and submit that into Blackboard.

## Question 1:

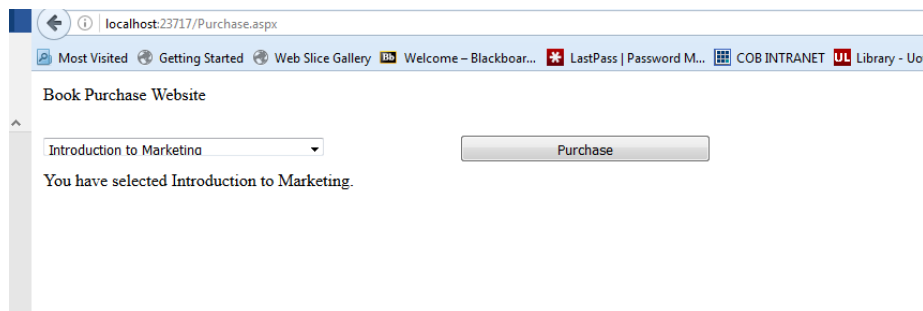
When the website loads it looks like this.



1. When the website loads first time, the following books should appear in the drop down list:
  - Introduction to MIS
  - Introduction to Marketing
  - Introduction to Finance

The addition of books should be done in the Load event of the page, and not directly coded anywhere else. Use “isPostBack” for doing this. See how we did that in the class. Read chapter 2 for its purpose and usage.

2. When a selection is made in the dropdown list and the Purchase button is clicked, a message should be shown as:



Be careful with the punctuations in the messages.

**Question 2:** You have to now build on top Question 1 code.

1. In this question, you need to add a quantity label and textbox as shown below.

http://localhost:23717/Purchase.aspx

localhost:23717/Purchase.aspx

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Book Purchase Website

Introduction to MIS Add Quantity

Purchase

2. When a selection is made in the dropdown and a quantity is entered (a positive whole number), then the following message is shown when the user clicks Purchase.

http://localhost:23717/Purchase.aspx

localhost:23717/Purchase.aspx

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Book Purchase Website

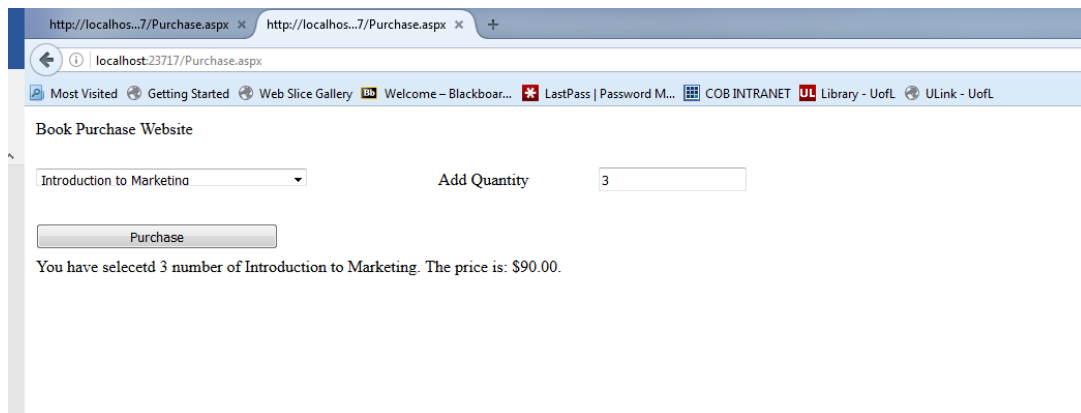
Introduction to Marketing Add Quantity 3

Purchase

You have selected 3 number of Introduction to Marketing.

**Question 3:** You have to build on the code of Question 2.

1. The screen shot for the first screen remains the same as in Part 1 of Question 2.
2. Add a function in the Form to get the prices of the book.
  - Name the function as “bookPrice”.
  - It takes an input - the name of the selected book - and provides the price as the output (type double). Use something like, if-else, switch case, etc. to check the name of the book and return the price. Keep it simple.
  - The prices are: Introduction to MIS – 20.00, Introduction to Marketing – 30.00, Introduction to Finance – 40.00.
3. When the purchase button is clicked after making a selection in the drop down, following message appears. When you code for the message, make sure you use currency format. Check the C# text for how to do that.



**Question 4:** This builds on the code of Question 3.

1. The first screen stays the same as Question 2 Part 1.
2. Add two validation controls to the WebForm.
  - a. **RequiredFieldValidation:** If the text box is empty, the following message should be shown. “Quantity is required, as a number in the range of 1 to 10.”
  - b. **RangeValidator:** The number in quantity should be an integer in the range of 1 to 10. If that’s not so, following message should be shown “The quantity should be a number in the range of 1 to 10.”
3. In the Load event, set UnobtrusiveValidationMode to “None”. See Chapter 2 to find how this property is set.

Below are the screen shots for when validation fails and when it passes.

The screenshot shows a web browser window with the address bar displaying 'http://localhost:23717/Purchase.aspx'. The page title is 'Book Purchase Website'. Below the title, there is a dropdown menu with 'Introduction to MIS' selected, followed by the text 'Add Quantity' and an empty text input field. Below these elements is a 'Purchase' button. The browser's address bar shows 'localhost:23717/Purchase.aspx'.

Quantity is required, as a number in the range of 1 to 10.

The screenshot shows the same web browser window as the previous one, but the text input field now contains '-10'. Below the input field, a message is displayed: 'The quantity should be a number in the range of 1 to 10.' The 'Purchase' button is still visible.

The quantity should be a number in the range of 1 to 10.

The screenshot shows the same web browser window as the previous ones, but the text input field now contains '5'. Below the input field, a message is displayed: 'You have selecetd 5 number of Introduction to MIS. The price is: \$100.00.' The 'Purchase' button is still visible.

**Question 5:** This is a new question. Read the whole question several times before starting out. Create a sequence in which you will write the code (in your mind, or on a piece of paper) before actually coding it.

**Description:** This is bank account application. A user can select one of the three bank accounts to withdraw money: Savings Account, Checking Account, and Student Account. When the application starts, the initial balances are: Saving balance is 30345.90, Checking balance is 40785.22, and Student account balance is 5643.23. The student can select an account to withdraw some amount from the drop down list, and input a withdrawal amount in the textbox. Clicking Withdraw will initiate the withdrawal action. If the withdrawal amount is more than the initial balance, a message will be shown that withdrawal is not possible because the balance is low. Otherwise, a deduction will be made from the initial balance, and a success message along with the new balance will be shown. Validation should be done for the text box. The text box should not be empty, and the value should be between 0 and 100000000.

Pay attention to the following steps. Use messages as shown in the screen shots.

1. When the application starts, following screen appears.

The screenshot shows a web browser window with the address bar displaying 'localhost:27241/BankAccount.aspx'. The browser's address bar also shows several tabs: 'http://localhost.../Purchase.aspx', 'http://localhost.../Purchase.aspx', and 'http://localhost...nkAccount.aspx'. The browser's toolbar includes 'Most Visited', 'Getting Started', 'Web Slice Gallery', 'Welcome - Blackboar...', 'LastPass | Password M...', 'COB INTRANET', 'Library - UofL', and 'ULink - UofL'. The main content area is titled 'Bank Account Details' and contains a form with a dropdown menu set to 'Savings Account', a 'Withdraw Amount' text box, and a 'Withdraw' button. Below the form is a 'Withdraw Message' label and a link 'For bank details, click here.'

- Three variables of type double should be declared at the form level with initial balances as: Saving balance is 30345.90, Checking balance is 40785.22, and Student account balance is 5643.23.

- When the page loads, following accounts should populate in the drop down list: Savings Account, Checking Account, Student Account. The accounts should be loaded in the Load event of the form just like in Question 1, Part 1.

2. The message, “Withdrawal Account” is the default message in the first screen. On Click of Withdraw, this should e replaced by messages in Point 4.

3. There’s a link at the bottom. Use “HyperLink” control. Give it a proper ID (your choice). Set property NavigateUrL to <http://www.bankofamerica.com>, and property “Target” to \_blank.

4. When the “Withdraw” button is clicked, following messages should be shown as in the pictures (use your judgement for the relevant messages according to the selected account). The messages should replace “Withdrawal Message” of the first screen.

a. If the amount in the text box is larger than the initial balance in the accounts.

http://localhost:27241/BankAccount.aspx

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Bank Account Details

Savings Account Withdraw Amount: 80000

Withdraw

Withdrawal amount is greater than the balance which is \$30,345.90.

[For bank details, click here.](#)

b. If the amount is less than or equal to the initial balance, show the new balance.

http://localhost:27241/BankAccount.aspx

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Bank Account Details

Savings Account Withdraw Amount: 10000

Withdraw

Withdrawal successful. Your new balance is \$20,345.90.

[For bank details, click here.](#)

5. Validations should be done for the input to the text box. Use `RangeValidator` and `RequiredFieldValidator`.
  - Range Validator message: "Amount should be greater than 0." Set the minimum and maximum values as 0 and 1000000000, respectively.
  - Required Field Validator message: "An amount is Required."