

# Assignment 2 Details

## assignment 2: **Due Friday 2pm week 10:**

### **Optional Research Report Due Friday 2pm week 12**

This assignment is worth 30% of the final mark for the unit.

It is intended that this assignment builds on the submission you did for assignment 1. The functionality of the Master Page (apart from the Menu), Home, About Us and Site Map pages will not change. The Registration page will have additional functionality and there will be 2 additional pages required.

**NOTE: ONLY THE MASTER PAGE AND THE HOME PAGE WILL BE VIEWABLE UNTIL THE USER HAS LOGGED IN (SEE LOGIN SECTION BELOW)**

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## 1 Home Page

The functionality of the Home Page will not change apart from the use of ASP.NET to dynamically read and display code as described below.

### AdRotator

Place this image at the bottom of this page. Make the image clickable to open up a **NEW COPY** of the browser, in which is displayed the full page code for this page and its associated XML file. Use ASP.NET to dynamically read and display this code, ie DO NOT copy and paste the code into a file for display.

### Master Page

Place this image at the bottom of the page. Make the image clickable to open up a **NEW COPY** of the browser, in which is displayed the code used for the Master Page as described above.

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## 2 Registration Page

In addition to displaying the user entered data as required for the previous assignment, this page must also provide for the contents of the form to be written to an Access database. Just use one table in the database, which will include all the fields of the form. Make sure that the database has a key field, e.g. a customer ID, which is unique for every record and which the user does not have to enter themselves and that each record contains an email field.

### Add Records

Place this image at the bottom of the page. Make the image clickable to open up a **NEW COPY** of the browser, in which is displayed the code used for this page as described above.

Add a button or link to the page, with suitable formatting attributes. The text on the button/link will be: "Click here to see all the xxx", where "xxx" is replaced with a term, like "customers", appropriate

to the web site. When the user clicks this button/link a **NEW COPY** of the browser is opened all of the records in the database are displayed, with suitable heading and formatting. Use a GridView to display the records. Use the formatting features of the GridView control, including BoundField, HyperlinkField (for the URL field of the database), and a ButtonField. The ButtonField is used to display the data of a selected row of the GridView, under the GridView, but using some extra formatting. Use an Access DataSource Control for this page. marks will be deducted if you do not use a GridView and/or do not use BoundFields and at least one ButtonField and HyperlinkField.

## Display Records

Underneath the output place this image, which, when clicked opens a **NEW COPY** of the browser and displays the code, as indicated above.

Add another button/link to this page, which when clicked, will open a new copy of the browser and allow the user to select a single record and have it displayed. The user can enter part of the contents of any of three suitable fields (e.g. customer ID, customer name or customer address field) and have the whole record displayed, with suitable formatting. If there is no record that matches the user input, then a suitable message is displayed to the user.

## Search Records

Underneath the output place this image, which, when clicked opens a **NEW COPY** of the browser and displays the code, as indicated above.

## 3 About Us

The About Us page, has 2 sub pages - Our History and Frequently Asked Questions. Make up some information for each of these 3 pages which is relevant to your site (around 15-20 lines of text for each. The menu must enable access to all 3 of these pages.

## About Us

Place this image at the bottom of the page. Make the image clickable to open up a new copy of the browser, in which is displayed the code used for the About Us, Our History and Frequently Asked Questions pages.

## 4 Site Map

There are no changes required to the functionality of this page.

## Site Map

Underneath the output place this image, which, when clicked opens a **NEW COPY** of the browser and displays the code, as indicated above.

## 5 Documentation

This page will provide assignment documentation.

1. Details of the author: name, student ID, this unit's name, unit provider (Monash University, The Caulfield School of Information Technology), assignment number, date

of submission, tutors name, an email link to the author, a link to this assignment specification.

## CSS

Place this image at the bottom of the page. Make the image clickable to open up a new copy of the browser, in which is displayed the code for the Cascading Stylesheet.

## Skin

Place this image at the bottom of the page. Make the image clickable to open up a new copy of the browser, in which is displayed the code for the skin file.

## 6 Other Features.

Construct a login system for your site. Any user may load the title page, but to go to any of the subsidiary pages, the user is first diverted to a login page. This login page will have two text boxes (one for a username and one for a password), and a button. Both boxes need to be checked that the user does not leave either empty before clicking the button.

When the user enters a username and password, these are checked against a set of usernames and passwords in an Access database. If the user logs on correctly, then the user is taken to the page originally intended, if not then they are required to try to login again.

In the Access database set up the following as **usernames** and **passwords** (i.e. username and password are the same: "aaa", "bbb", "ccc").

## Login

Use this image to display the code for your login page, and the web.config file.

Note: in implementing your login system, place all the pages that require a login challenge, in one sub-directory, called "locked" for example. Then place the two web.config files given below in the appropriate directories.

Place the following web.config file in the root directory of your application: i.e. in your root directory, above the "ass2" sub directory. Also place the login page in your root directory.

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <system.web>
    <customErrors mode="Off"/>
    <authentication mode="Forms">
      <forms name = "ass2"
        path="/"
        loginUrl="login.aspx"
        protection = "All"
        timeout = "10" />
    </authentication>
  </system.web>
</configuration>
```

Create a directory called "locked" inside your "ass2" directory. Place this web.config file in the "locked" sub-directory.

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
```

```
<system.web>
  <authorization>
    <deny users="?" />
  </authorization>
</system.web>
</configuration>
```

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## Distinction Requirements


Completing the requirements stated above may earn you up to a Credit grade for this assignment. In order to earn up to a Distinction grade you must complete the following additional requirements and submit a Design Report.

## 7 Email

This page will be reached by a separate menu item and will display a list of customer, clients, registered users (or whatever you have called them) from your database. Display the name, email address and a checkbox for each record. The user will be able to select one or more clients, enter a subject and email and send the message.

### HINTS:

- The SMTP Mail Server address is smtp.monash.edu.au
- The SMPT Port is 25

A blue rectangular button with the word "Email" in white text.

Place this image at the bottom of the page. Make the image clickable to open up a new copy of the browser, in which is displayed the code used for the Email page.

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## 8 Calendar

You will need a table in your database which holds information regarding events. There needs to be an EventDate, EventTime and an EventDescription.

When the page loads the database should be checked to determine if there any events scheduled for today. If so, todays date should be highlighted in the calendar control by using a different background colour and a label below the calendar should display the event description and the event time. If there are no events for the current date, the label should display appropriate text such as "No Events Scheduled for Today".

**NOTE: Events can be manually entered into the database. The only requirement is to display events, it is not necessary to be able to add/edit/delete events from this table.**

### HINTS:

- A Calendar control cannot be bound directly to a DataSource control. You will need to specify an *onDayRender* event handler for the Calendar control. The method signature for this is

*void dayRender(object sender, DayRenderEventArgs e)*

- You can use a DataSource control to connect to the database and then populate a DataView object with the results of the SQL SELECT statement.

```
DataView dv = (DataView)dsEvent.Select(DataSourceSelectArguments.Empty);
```

The DataView object is contained within the System.Data Namesapce.

In this example the AccessDataSource has an ID of dsEvent.

The DataView.Count method can be used to determine if any rows have been returned.

- Dates in Access are delimited with the # character. So a valid SQL statement would be  
SELECT \* from Event WHERE EventDate = #20/9/2012#

**NOTE: Feel free to implement this using a method of your choice but the functionality must be as described.**

## 9 Design Report

**This Design Report will build on your Assignment 1 Design report.**

The Design report should provide a detailed overview of the functionality of your application. In addition you can include mockups of your application. Consider including user stories, that are driving your design decisions. In your design document include a completed checklist of site functionality.

Your design report must demonstrate good communication skills, and present a well thought out application design. It must clearly communicate the abstractions being created, and outline how the functionality is organised.

**Your design report must include the following:**

- overview of your application's goals
- functional diagram illustrating how the core aspects of the application fit together.
- description of core application functionality and how it works.
- Usability Design Review (based on the Flow Bohl usability categories)
- checklist of site functionality.

**Optional requirements** (for Higher range of Distinction, once above requirements satisfied)

- user stories, that are driving your design decisions
- data dictionary of your application, including the main data structures and types used in your application.

A pdf version of the template as well as a word versions for the design report are linked:

[FIT5032 Design Report Ass2.pdf](#)

[FIT5032 Design Report Ass2.docx](#)

# High Distinction Requirements

Completing the requirements stated above may earn you up to a Distinction grade for this assignment. In order to earn up to a High Distinction grade you must complete a Research Report.

## 10 Research Report

### Optional Research Report Due Friday 2pm week 12

The High Distinction grade require you to demonstrate your ability to research a question related to the unit's concepts, and to document your findings in a research report. A Research Report aims to communicate your research undertaking, the results, and their significance. It is expected to be around 6-10 pages in length, and divided into sections including an Abstract, Introduction and Literature review, Method, Results, Discussion, Conclusion and References, with at least 5 to 10 relevant references. The report should also make use of figures and/or tables to help convey its message.

Choose a topic in Internet Applications Development that is intellectually stimulating and you can research and present in a research report format.

#### The research report must:

- Aim to answer a question related to the unit's learning outcomes that has been accepted by the tutor/lecturer.
- Propose a method by which the question can be answered.
- Demonstrate that the method was carried out, and show appropriate summaries of the data collected.
- Present an analysis of the data showing insights into the underlying concepts.
- Discuss findings and their relevance to internet applications development.

#### Types of Research Projects (choose one or some other accepted type of project)

Survey of Literature (pure review of literature)

Experimentation, testing and reviewing technology

Application Development, applying some technology and reviewing it

Knowledge Discovery, discovering new knowledge relevant to field

A pdf version of the template as well as a word versions for the research report are linked:

[FIT5032 Research Report.pdf](#)

[FIT5032 Research Report.docx](#)

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## Submitting Assignment 2

The assignment must be hosted on triton and submitted as a zipped file to moodle by the due date and time [see the top of this page for the submission date]. In addition ass2 should be submitted to Doubtfire (with screenshots, the design report and the research) for feedback in the weeks before the



final submission.

The site must conform to all copyright requirements.

The assignment will be corrected using Internet Explorer 10.0 or later. Design your web pages to be viewed with 1024 x 768 screen resolution and higher resolutions. The assignment may be corrected at any screen resolution of 1024 x 768 or higher.

Triton is running **ASP.NET V4.0**. Ensure that all your submitted files work under this version.

The ftp facility on the Triton server will be disabled at 2pm Melbourne time, on the date that the assignment is due (**see the Calendar on menu at left of screen for the submission date**). By this time the assignment must have been transferred to your directory on the Triton server. At this time, an image is taken of student assignments and this is used for correction purposes. So although you may be able to transfer files after that time, they will not be considered for correction. Consequently, do not leave it to the last day to transfer files.

You must test the transfer procedure well before time to make sure you know how it works. After you have transferred your assignment, test it thoroughly. Do not assume that just because the assignment works properly from your hard disk (using Visual Studio), that it will also work properly from the student server. For example, if you have spaces in the names of your files, they may not work properly from the Triton server, but may work from your hard drive.

To view your assignment after it has been transferred, point your browser to:

[http://triton.infotech.monash.edu.au/fit5032\\_99999999/ass2/index.aspx](http://triton.infotech.monash.edu.au/fit5032_99999999/ass2/index.aspx)

Note: insert your ID number in place of "99999999". You will be prompted for username and password: that is your triton (authcate) username and password.

Special consideration in cases of sickness or other serious cause, for which a special consideration form and documentary evidence (e.g. a doctor's certificate) must be produced. **Students must request an extension prior to the submission date.**

After marking you will receive the feedback and grading for the assignment.

Remember, feedback and grading will be awarded for the assignment that has been set, not the assignment you might like to do. Make sure that the various features are on the pages as detailed above: if you place a feature on the wrong page you may not get recognition for that feature.

The author must write all submitted web pages. Where there is evidence of similarity with other assignments, students will be heavily penalised. Students may be interviewed as part of the assessment requirements of the assignment. Students will be asked question(s) to explain their submitted assignment. If a question is not answered satisfactorily, a reduced grade will be awarded.

[Faculty of Information Technology](#)

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