



FIT5032 Assignment 2 Design Report

Application Name: Hello World Programmer

Student Name: Jie ZHANG

Student ID: 25841866

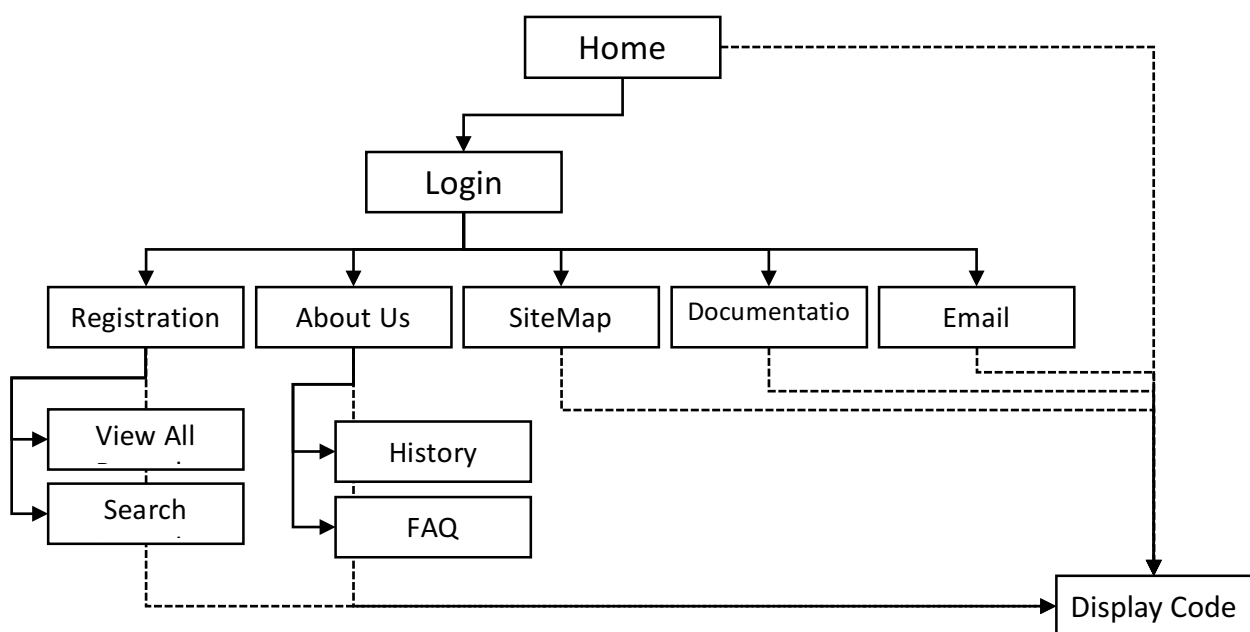
Contents

1. Overview
2. Functional Diagram
3. Core Program Functionality
4. Usability Design Review
5. Checklist of Site Functionality
6. User Stories
7. Data Dictionary

Overview

My application is a web application based on ASP.NET technology and C# language, aiming to provide a web interface for customer of “Hello World Programmer” (HWP) company’s service. This application can provide information of HWP’s service, and the HWP company itself. Besides, it will also have a server-end database and some business logic methods based on it, with which, this application can provide functionalities such as user accounts with log-in/off functions, searching and booking service and tracking satisfaction and reviews of customers. It will provide a user-end interface for customer usage, and also a manager-end interface to manage all the users’ account and services orders.

Functional Diagram



Log in:

This page allows user to log in and get authority to all other pages. This page can not access directly, instead, when an un-logged-in user try to view all the pages except home page, he or she will be led to the log in page.

Home:

This is the default page that automatically shows when the user link to this app. This page shows the basic information of the web application. Also, it provides some basic information about the company and its service.

Registration:

This is the registration page that a customer can register his or her information and create an account. It will show the information after successfully registered.

View All

This page will show all the records in the users’ information database.

Search

This page allows the user to search user's information by username (aka ID), family name or given name.

About Us:

This is the page that tells more about the company.

History

This page tells about the history of the company.

FAQ

In this page, some of the frequently asked questions are shown as long with the answers to each of them.

Site Map:

The site map page shows a site map of the site.

Documentation:

This page provides detail information of the author and the assignment.

Email:

This page shows all the users' name and email address, one user can send an email to one or multiple users.

Display Code:

This page is not on the site map, it is used to show the code of each page.

Core Program Functionality

This application is a web site with skin, style sheet, master page, validator and sitemap. Also, it uses a login control and uses access databases. In the app's directory, the app contains a master page file, 12 web pages with each's code file, a sitemap file, some images used in the pages, a skin file and a style sheet file. The home page, the master page and the css style is directly under the app's folder and other 11 web pages is under a directory called "locked". The login page, the skin file and the database is put outside the app's folder.

It all starts with a master page. The master page is formatted with tables and includes all the reusable part, such as the title, the fly out menu and the calendar. Also, it contains a content place holder that other pages can nested in. Therefore, all of other pages are nested in the master page.

Except the home page, all other pages are required to login before view. The first time when a user clicked a link on the home page, it automatically jumps into the log in page. In the login page, a login control is used and uses a data source from an access database. After valid login, the user can view the page that led by the link on the home page.

In the home page, text labels, images, and hyperlinks are used. In the registration page, it needs the input of the user information. It uses all kind of input elements: text box, dropdown list, radio buttons list, check box and list box. Besides, all the input validators are

used. In the site map page, a tree view control is used to show the site's structure, with the sitemap file. The about us pages (about us page, history page and FAQ page) and documentation page are used for showing information, using text labels, images, and hyperlinks.

The skin file and the style sheet file are referenced in every page. They are used for formatting purposes such as content aligns, font styles & colours, border styles & colours and background colours. The site map file is used for to design and describe the structure of the site. It's used in site map page and the path trace of each page.

Usability Design Review

Navigation

The navigation of the site is clear and easy to handle. All the links and menus are well placed and shows very clear the destination. Also, a path trace is shown in each of the page, increasing the navigation useability.

Familiarity

This site uses elements that all other site use. Besides, all the menus and elements are put in the place what the users are used to be. Some common elements like arrows and bold letters can also increase the familiarity useability.

Consistency

With the master page, style sheet and skin file introduced, all the pages share the same way to demonstrate content, making the user feel strong consistency during browsing this site.

Error Prevention

In this site, all of the input fields are check with validators, which highly reduced the happening chance of errors caused by wrong user input. Also, all the links and menus are checked to be valid with right destination to avoid link errors.

Feedback

According to feedback from alpha-test users, which is some friends of the author, the useability is quite good. The can easily access all the page they need to.

Visual Clarity

In this application, all the elements in all pages are clear placed in proper place. With the clean colours and some bold letters and lines, it is easy to read the content of the pages.

Flexibility and Efficiency

Flexibility and efficiency can't both achieve the highest at the same time. However, this application has achieved a very good compromise between those two. Many of the components are flexible and reusable, but overall the efficiency of the application is quite high too.

Check List of Site Functionality

	TICK if complete
1. (Home Page)	
Design	X
Dynamic code display	X
2. (Registration)	
Web form and validation controls	X
Formatted data entry display	X
Database update	X
Display all records using Grid View	X
Search records	X
Overall page design	X
Dynamic code display	X
3. (About Us)	
Dynamic code display	X
4. (Site Map)	
Dynamic code display	X
5. (Documentation)	
Author/assignment details	X
Style sheet	X
Skin	X
6. (Login System)	
Implementation and Design	X
Dynamic code display	X
High Distinction Requirements	
7. (Email)	
Alphabetically sorted list	X
Send email to selected customers	X
8. (Calendar)	
Background colour set	X
Label displays description and time of todays events	X
Label displays "No Event" text	X
Audit	
No breaking of copyright	X

User Story

I developed this application mainly is driven by the “pretty handsome awkward” situation of programmers. Nowadays basically everyone thinks that a programmer can deal with all the the computer issues, but the brutal truth is that many of the computer problems is not easy to handle. It is very boring and tedious to deal all the problems and dealing most of them is not helpful to learning skills or gaining experience. They are pure boringness. Therefore, I want to develop a web side that can help programmers to deal with all kind of computers issues, with the help of witch, every programmer can focus on what they want to create

instead of what they have to face to. If every genius programmer can focus all their attention on the codes instead of IDE running the codes, he or she can defiantly create some masterpiece.

When a programmer with some troubles using the web application, he or she can view some solutions or book an appointment of the services. With the help of the pages or our technicians, the programmers can shake all the troubles off and concentrate on the creation.

Data Dictionary

