Units covered in this assessment:

Code	Unit Name
ICAWEB506A	Develop complex cascading style sheets
ICAWEB502A	Create dynamic web pages
ICAWEB501A	Build a dynamic website
ICAICT515A	Verify client business requirements
ICAPRG505A	Build advanced user interface

Semester 1, 2014

Practical Project Brief

Total Marks: Counts towards 100% of the unit marks

Instructions for students:

- This project must be your own work.
- Files should be supplied for marking by the due date and time.
- You will be allocated a marking scheme. Your results and any feedback will be noted on the marking scheme. (within 1 month)
- Feedback for the client/teacher meetings will be provided during the meetings.

Instructions for assessors:

- The Project can be complete outside of TAFE classes but students must be able to answer questions about their work.

Online Sports Shop

Your task is to design, build, test and document an online sport shop. The shop is selling sport equipment. This system has 2 types of users:

- Public/Customer – This type of user can browse the items for sale and add them to a shopping cart
- Staff – This type of user can maintain the data in the application

Functionality and marking scheme

The project will be implemented in 3 stages. Each stage requires a client demonstration and review.

Stage 1 Due by week 9

Task	Element of criteria assessed
Home page Prototype of home page supplied to client for review, created as a web page using HTML and CSS. Note ASP.NET web forms should be used. The home page needs to display the company logo, created by you and a movie/video with sound which promotes an item they sell. The home page should display some images of the items they sell. It should make the site visitors want to browse the site and hopefully purchase.	**ICAWEB506A Develop complex cascading style sheets:** ☐ 1.1 Obtain user requirements for style ☐ 1.2 Develop CSS to match user requirements ☐ 2.1 Style elements of a web page using *advanced CSS* techniques ☐ 2.2 Position document elements using advanced CSS **ICAWEB501A Build a dynamic website:** ☐ 2.3 Produce *prototype* of the user interface **ICAPRG505A Build advanced user interface:** ☐ 4.1 Create and display graphics ☐ 4.2 Add multimedia content to an application
Contact us Gather the following data from the user and validate data entry: - First name – String required field - Last name – String required field - Contact number – required field matches Australian phone number - Email address – required field matches email address - Question – required field When the form is submitted the data needs to be sent to information@sportsshop.com.au	**ICAPRG505A Build advanced user interface:** ☐ 2.2 Implement client-side validation
Browse for products This page needs to exist but not yet functional. In stage 2 this page will list the items for sale.	**ICAWEB506A Develop complex cascading style sheets:** ☐ 2.3 Apply style sheets to multiple pages in a website
Styling Style sheet needs to be applied to all pages in the website	**ICAWEB506A Develop complex cascading style sheets:** ☐ 2.3 Apply style sheets to multiple pages in a website
Testing Website needs to function well in IE9+, FF and Chrome Website needs to validate against W3C HTML 5 and CSS	**ICAWEB506A Develop complex cascading style sheets:** ☐ 3.1 Validate CSS against *industry standards* ☐ 3.2 Test website in various *browsers* ☐ 3.3 Rectify browser differences to ensure website is accessible
Client meeting You will need to schedule a meeting with your client by the due date. At this meeting you will discuss and present your work. - Review design and discuss improvements needed to be implemented in stage 2. - Discuss requirements for stage 2. - The meeting needs to be documented and handed in with stage 2.	**ICAWEB506A Develop complex cascading style sheets:** ☐ 1.1 Obtain user requirements for style **DOCUMENTED MEETING NEEDS TO BE HANDED IN FOR STAGE 2**

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Date last reviewed: 02/04/2013

Page 2 of 5
Created: 17/01/2013

Stage 2 Due by week 14

Task	Element of criteria assessed
Design Implement changes discussed with the client at previous meeting.	**ICAPRG505A Build advanced user interface** ☐ 1.2 Review conceptual design with client and edit as required

Browsing
 	
Browse the site to view the items for sale. The items can be found by selecting the category or searching for an item.
 	
For each item you should display:
 	
   • Item name
   • Price
   • Photo of item
   • Description of item
 	
Selecting a category
 	
Items are grouped into categories. An item belongs to one category only and categories may contain more than one item.
 	
Searching
 	
Search for an item by providing the item name or part of the name.
 	
jQuery
 	
Include some jQuery in your site to enhance the user experience.
	ICAPRG505A Build advanced user interface
	
	☐ 1.1 Determine appropriate *client technology* and *development tools* and platform for writing the UI
	
	☐ 1.3 Design UI layout and structure
	
	ICAWEB502A Create dynamic web pages
	
	☐ 1.1 Review technical requirements
	
	☐ 1.2 Identify sections of the website requiring client-side dynamic content
	
	☐ 1.3 Identify sections of the website requiring server-side dynamic content
	
	☐ 1.4 Select appropriate *languages* and technology to meet the requirements
	
	☐ 2.1 Create pages using appropriate languages
	
	☐ 2.2 Ensure code conforms to current industry best practice and standards

Testing Website needs to function well in IE9+, FF and Chrome Website needs to validate against W3C HTML 5 and CSS	**ICAWEB502A Create dynamic web pages** ☐ 3.1 Test website in a variety of *browsers* ☐ 3.2 Ensure required dynamic content functions according to specified requirements
Design and analyse requirements • Create a sitemap of your website including stage 3 implementation • Create a wireframe of the requirements for stage 3 • Produce data base diagram • Create a project initiation document (PID)	**ICAWEB501A Build a dynamic website** ☐ 1.1 Identify business requirements and appropriate standards ☐ 1.2 Determine and *document* the purpose, expectations and functionality of the website ☐ 1.3 Analyse the user-interface design requirements, including user needs, design principles and operating systems ☐ 2.1 Produce a hierarchy of the website showing navigation ☐ 2.2 Ensure content is logical and accessible to user ☐ 2.4 Determine and document the *architectural requirements* ☐ 2.5 Design *data storage* requirements ☐ 4.2 Complete and document the *design structure* **ICAICT515A Verify client business requirements** ☐ 1.1 Identify organisational structure, culture and politics in relation to support requirements ☐ 1.2 Identify organisational stakeholders
Client meeting You will need to schedule a meeting with your client by the due date. At this meeting you will discuss and present your work. • You will need to submit and discuss the analysis and design documentation. • You will demonstrate and discuss the additional functionality included in phase 2. • The meeting needs to be documented and handed in with	**ICAICT515A Verify client business requirements** ☐ 1.3 Develop business relationship with *client* across the appropriate number of organisational units ☐ 1.4 Schedule regular liaison to manage relationship ☐ 2.1 Work with client to define the business *problem* to be investigated ☐ 2.2 Establish *system* boundaries and scope ☐ 2.3 Manage the preparation of appropriate information gathering

stage 3.	☐ 2.4 Ensure that project objectives and outcomes are documented
	☐ 2.5 Work with client to substantiate *documentation*
	DOCUMENTED MEETING NEEDS TO BE HANDED IN FOR STAGE 3

Stage 3 Due by week 18

Task	Element of criteria assessed
Client feedback New system requirements identified at meeting 2 documented. Implement changes needed based on client feedback in meeting 2.	**ICAICT515A Verify client business requirements** ☐ 3.1 Supervise information gathering from identified clients of the system ☐ 3.2 Analyse gathered client responses ☐ 3.3 Analyse new system requirements ☐ 3.4 Ensure that new system requirements and problems are documented ☐ 4.1 Review documentation ☐ 4.2 Work with client to verify system specifications, updating documentation as required ☐ 4.3 Obtain final approval and sign-off from client **ICAPRG505A Build advanced user interface** ☐ 4.3 Obtain client feedback and adjust web applications as appropriate
Purchase items Items can be added to a shopping cart for purchase. The customer may purchase as many items as they like. **Checkout** When the customer is checking out they will need to fill out some personal and delivery details. The data gathered includes: - First name - Last name - Delivery address - Contact number - Email address - Payment Items in shopping cart can be purchased. When paying the following details need to be supplied: - Credit card number - Expiry date - Name on credit card No other forms of payment will be accepted. Once payment is completed the customer will receive an order number to keep for future reference. We will not be using a payment gateway. The credit card details will instead be stored in the database. **Login** Staff members can login using their username and password. ***To make my life easy with marking please make sure at least one staff member has a login name of admin and a password of password!*** **Update password** Staff member should have the ability to update their own password.	**ICAPRG505A Build advanced user interface** ☐ 2.1 Apply interaction design patterns **ICAWEB501A Build a dynamic website** ☐ 3.1 Create software *components* of the website ☐ 3.3 Integrate components to produce the web application

Maintain categories Staff members will have the ability to add and modify categories. When a category needs to be deleted you can have the option of setting it as inactive or deleting the category however this cannot occur if the category still has items that belong to it. **Maintain items** Staff members will have the ability to add and modify items. When an item is no longer sold it should be set as inactive NOT deleted. An item will only be deleted if it was entered incorrectly for example a data entry error which needs to be removed from the database. When deleting an item there must not be any orders which contain that item.	
Customize user interface The staff member must be able to customize their user interface in some way. For example they may want to choose their own theme.	**ICAPRG505A Build advanced user interface** ☐ 3.1 Build *customisable UI* to allow users to select own custom version of the underlying application ☐ 3.2 Build *personalised UI* to improve user experience
Testing Website needs to function well in IE9+, FF and Chrome Website needs to validate against W3C HTML 5 and CSS	**ICAWEB501A Build a dynamic website** ☐ 3.2 Test components of the website ☐ 4.1 Test website against the requirements
Demonstration Demonstrate the website implements the requirements for stage 3. • Purchasing • Paying • Login • Create a category • Update a category • Insert an item • Update an item • Customize user interface	**ICAICT515A Verify client business requirements** ☐ 4.3 Obtain final approval and sign-off from client

Client interaction

For the purpose of this project the client is your teacher. You will need to organise at least 2 meetings to review the stage and gain feedback for the next stage.

The aim of the meetings is to ensure you are on the right track and will build a quality application. After meetings you may find you have gained new information, this new information may change the way your application is designed and built.

Preparation for a meeting

Make sure you have all your work ready to present and discuss. You do not want to waste the clients' time while you are searching for different files.

Bring with you a documented list of problems/questions. Marks will be awarded for your preparation, meeting conduct and follow up. A maximum of 20 minutes is available for each meeting. The meetings need to be scheduled at least 3 weeks before handing in the project.

Presentation

On completion of the project you will need to present it to the class.

Remember if you unclear about any of the requirements please ask your teacher this is part of the process of creating a web application. You often need to clarify things with the client.