

# Test Project Web Design

TP17\_40CA\_actual\_EN

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## **1. CONTENTS**

This Test Project consists of the following documentation/files:

1. TP17\_40CA\_EN.doc
2. Media files will be in your “source-files” folder

## **2. INTRODUCTION**

Skills Canada would like an employment web portal which offers employers and potential employees the opportunity to exchange information. The objectives of this website are to allow employers to register to become a member and post job opportunities which are categorized by province/state and skilled occupation. Candidates can become members and post their resumes to the site, categorized by province/state and skilled occupation.

The main target group will be the employers; they have to place their job postings in the first place before candidates can respond to them. Therefore, make sure that in your design, employers of an elder generation can find their way around easily and intuitively throughout the website. Since the candidates are the important second target group, make sure the site is appealing for them. It is important for you to find a proper balance in the design and usability between the elder employers and the younger candidates.

And finally it is required that the site helps the Skills Canada mission to promote careers in skilled trades and technologies to Canadian Youth. The website must be accessible to a wide audience and must therefore follow basic usability and accessibility and W3C (XHTML, CSS) guidelines.

## **3. DESCRIPTION OF PROJECT AND TASKS**

The Web Design project consists of one practical task of constructing an employment web portal for the Skills Canada organization to be completed in a specified time of 22 hours spread over four days as listed in the schedule below. The task is divided into 4 modules with each module to be completed at the end of each day, which will be marked that evening. If you have finalized the module for that day, you may continue with the next module.

Competitors will be divided into four groups A, B, C and D. All groups can work on the project, or present the trade to the public as per the timetable provided. The breakdown of tasks for each day is detailed in section 4 and in the marking criteria.

**Note: All aspect in the judging criterion will be evaluated regardless of the project description.**

#### **4. INSTRUCTIONS TO THE COMPETITOR**

Your task is to construct the employment web portal for Skills Canada using the information and media provided by the Skills Canada Organisation. This information, comprising text, images and documents has been prepared and is available in both English and French. Within the time allocated, you have to decide how much of this information and media are needed to complete your task. It is not necessary that you use all of the information and media provided; you may add additional information or create your own media to support your design concept.

The pages will be evaluated with Firefox and a native screen resolution of 1920 pixels by 1080 pixels, if not stated otherwise in the marking scheme.

Note:

- Reference to home page, main page and index page are the same page.
- Save all Photoshop - psd, Flash - fla and any other source files to the “source-files” folder.

**Your website must include the following design elements and functionality:**

1. Animations & advertisements

- An interactive animation appropriate for the Skills Canada website [To be located at least on the home page and the About section]. The animation for Skills Canada should reflect the mission statement of Skills Canada and explains the purpose of the site. The interactivity consists of splitting into three or more chapters with the ability to jump to another chapter. There also needs to be a ‘start, pause and stop’ functionality.
- One animated Ad is required to be included for an advertiser – content will be provided for the ad. The animation for the advertiser has to match the corporate identity of the advertiser and at the same time not interfere with the readability of the content from the site.
- One non-animated Ad is required to be included for an advertiser – content will be provided for the ad. The advertisement for the advertiser has to match the corporate identity of the advertiser and at the same time not interfere with the readability of the content from the site.

2. An index/home page should comprise of:

- a) website stats:
  - i. Number of Employers registered
  - ii. Number of Candidates registered
  - iii. Number of active jobs
- b) at least 2 images in the content area
- c) The interactive Skills Canada animation

### 3. Employer Section

- a) Employer should be able to login using email and password
- b) Employer should be able to logout
- c) Employer should be able to post a job
- d) Employer can search Candidates based on:
  - a. Keyword search in all profile information. If no keyword is entered, all candidates will be listed. The results need to be sorted by skills category and then by province. The search results need to be paginated and return number of matches.
- e) The Employer registration area should collect the following data:
 

• Title	• Email Address (used for login as user name)
• First Name	• Street/Box Number
• Last Name	• City
• Company	• *Province
• Phone	• *Postal Code
• *Fax	• Password
• *Cell	• Hidden field: IP Address

\* Not required field

Use similar names for the field names in the database to match the (English) form names.

### 4. Employer Registration Process [See APPENDIX B]

- a) The employer registers and receives a confirmation email.
- b) Once the employer responds to this confirmation an email is sent to the administrator indicating an employer has registered.
- c) The Administrator logs into the administrative section of the website and moderates the registration by approving or denying the registration.
- d) An email notification sent to the employer stating the approval or denial of the registration.

### 5. Employer Posting Process [See APPENDIX C]

- a) Employers logs into the website to post a job (title and description) which is categorized by province and skilled category. Jobs can't be edited after posting. [See APPENDIX D]
- b) Employers can access (list of postings with links) and download (ZIP-file) candidate's resumes. The ZIP-file contains the file uploaded, the job application text and the candidate information.
- c) Employers can change their registration information (password).

### 6. Candidate Section

- a) Candidate should be able to login using email and password
- b) Candidate should be able to logout
- c) Post a resume to an existing job

d) Search Jobs

- i. Keyword search in all job profile fields stored in the database. If no keyword is entered, all jobs will be listed. The search results need to be paginated and return the number of matches found.

e) The Candidate registration area should collect the following data:

- Title
- First Name
- Last Name
- Phone
- \*Fax
- \*Cell
- Email Address (used for login as user name)
- Street/Box Number
- City
- \*Province
- \*Postal Code
- Password
- Hidden field: IP Address

\* Not required field

Use similar names for the field names in the database to match the (English) form names.

7. Candidate Registration Process [See APPENDIX B]

- a) The candidate registers and receives a confirmation email. After the candidate confirms their email they are automatically registered as a member – no administrator approval is required.
- b) Once the candidate responds to this confirmation an email is sent to the administrator indicating a candidate has registered.

8. Candidate Posting Process [See APPENDIX C]

- a) Candidates who log into the website (using an email and password) can reply to a job by posting their resume. The resume consists of uploading a file (CV) and typing a job application text.
- b) Candidate registration information along with their resume is posted to a secure/non-public section which only the respective employer can access and download all three parts in a ZIP-file.
- c) Candidates can change their password.

9. Job Listing by Province or Skilled Category [APPENDIX D]

- a) A website user can choose how the order of the job list is shown (by Province or by Skilled Category).

10. Administration Module

- a) Administration area should be integrated into the website GUI
- b) Admin should be able to login using email and password
- c) Admin should be able to logout
- d) Admin should be able to approve/deny, add, modify, or delete employers

11. Navigation

- a) Extra space is required to accommodate an additional menu item within the main public menu [APPENDIX A]
- b) Footer menu [APPENDIX A]
- c) Login and registration facility should be provided

## 12. Skills Canada Identity

A consistent identity of Skills Canada is to be evident throughout the website. *Note: this identity is unique and should follow the identity of Skills Canada provided.*

## 13. Accessibility and usability standards:

- a) The website code should validate to XHTML 1.0 Strict.
- b) Use Alt and title attributes.
- c) Use unique titles and meta information such as author, description and keywords.
- d) The site is user friendly and easy to use.
- e) The site is being judged for cross-browser compatibility between Firefox 3 and IE 7.
- f) Allow end user to change font size using separate button/s.
- g) Allow end user to change language for main menu, page title and page content between French and English without changing pages.
- h) Work in different screen resolutions: native 1920 pixels by 1080 pixels and 1024 pixels by 768 pixels.
- i) Format layout and presentation using CSS. Tables are only allowed for content, not for layout. If CSS is disabled the page content keeps its logical structure.
- j) Identify row and column headers for tabulated data in the job listing.
- k) Provide sufficient contrast between text and background colours.
- l) Use whitespace to improve the look and feel of the site.
- m) Keep navigation systems consistent.
- n) Use internal commenting within PHP, XHTML, JavaScript and CSS.
- o) Clearly separate the presentation code (XHTML) and processing/access data on the server side using modular structure.
- p) Use a print CSS to format pages when printed.
- q) Use label tags for form input fields.
- r) Give feedback messages to users about the success and failure of the submission of the Candidate registration form and the Job posting form.

## 14. Search Engine Optimization:

- a) Use meta tags with appropriate meta tag information [e.g. description and keywords]
- b) Use search engine friendly URL's
  - a) Eg; Not a search engine friendly url: <http://www.skills.com?page=contact>
  - b) Eg; Search engine friendly url: <http://www.skills.com/contact> or <http://www.skills.com/contact.html>

## 15. Security Details

- a) Encrypt all passwords in database
- b) Safe handling of variables (Guard against PHP and MySQL code injection)
- c) Cloak all visible email addresses within the code
- d) Validate form field entries that are mandatory in the Candidate registration form and the Job posting form (C2). Choose client side or server-side validation.
- e) If a user forgets their password, they can enter their email and have a new password emailed to them (if the email exists in database).
- f) Validate email of registration before saving it, to make sure it is not registered already.
- g) Prevent submitting of identical form content multiple times.

**Note: Keep your administrator username and password the same as the one provided for you to log in. At the end of each day information will be marked off of the server – NOT from XAMPP (the workstation).**

## 5. MARKING SCHEME

For the complete Marking Scheme see Marking Scheme documents from CIS.

The marking consists of four criteria, each worth 25 points. Each of the main criteria has a variety of sub criteria. Every day a selection of those sub criteria will be marked. Once marked a sub criteria cannot be marked again, so make sure you understand what is expected of you to hand in. When you have finished all tasks for the current day (module), you can proceed to the tasks of the next module.

Criteria A:	Animation and Video	[25 POINTS]
Criteria B:	Graphic Template Design	[25 POINTS]
Criteria C:	Front End Implementation	[25 POINTS]
Criteria D:	Back End Implementation	[25 POINTS]

Day 1 – Module 1 6 hrs	Criteria B, design
Day 2 – Module 2 6 hrs	Criteria C, HTML/CSS Criteria D, back-end
Day 3 – Module 3 6 hrs	Criteria A, animation Criteria C, HTML /CSS Criteria D, back-end
Day 4 – Module 4 4 hrs	Criteria A, animation Criteria C, HTML /CSS



### Day 1: [Module 1]

At the end of this day, the design will be marked:

- B1: Usability                      Text, easy access to information
- B2: Aesthetics                    Colours, balance of elements
- B3: Creativity                    Originality
- B4: Lay-out                        Positioning of elements
- B5: Concept                        Motivation of design (describe in text)

Furthermore you'll gain 1 point for presenting our trade to the public if you are on time (B6).

### Important notifications for marking!

- Experts will mark from the screen and will require your prints for verification.
- Make sure that your designs and/or screenshots are saved in the "source-files" folder on the server.
- Make sure paperwork is clearly named with your Country Code and workstation number.
- Print the homepage design [call your image "homepage.jpg"] and the job listing design [call your image "joblist.jpg"] with at least 3 jobs (these do not need to be created using the provided material).
- Provide a hard copy of your concept containing the target group, the goal of the site, your motivation for your choice of typography and your motivation for your choice of colour.
- Provide your hand sketch wireframe/storyboard of the homepage.
- **Save all files to your server space, your work will be judged on the server, not the workstation.**

**Day 2:** [Module 2]

At the end of the day parts of the front-end and back-end will be marked:

- C4: Design Look and feel of the site
- C5: Graphic User Interface Elements added to the site such as header, footer
- D4 : Employer section Registration, post, login/out
- D5: Candidate section Registration, post, login/out
- D6: Job listing List of jobs
- D7: Admin section Login/out, insert, edit, delete

Furthermore you'll gain 1 point for presenting our trade to the public if you are on time (D8).

**Save all files to your server space, your work will be judged on the server, not the workstation.**



**Day 4:** [Module 4]

- |   |   |
|---|---|
| • A4: Quality of Skills Canada animation    | Design of the skills Canada animation                             |
| • A5: Technical aspects of Skills animation | Content used, file size   |
| • A6: All ads added to the website          | Whether the ads have been added                                   |
| • C6: Finalizing                            | Whether everything is finished and is<br>Cross-browser compatible |
| • C7: User friendly                         | Ease of use for entire website                                    |

Furthermore you'll gain a point for presenting our trade to the public if you are on time (C8).

**Important notifications for marking!**

- Remember to print and highlight the PHP comment from your PHP file screenshot.
- Remember to dump/export the database into the "source-files" folder on the server as a .sql file.  
Call your file sk17user#.sql, where # is your competitor number
- **Save all files to your server space, your work will be judged on the server, not the workstation.**

## **APPENDIX A**

### **Public Main Menu Structure**

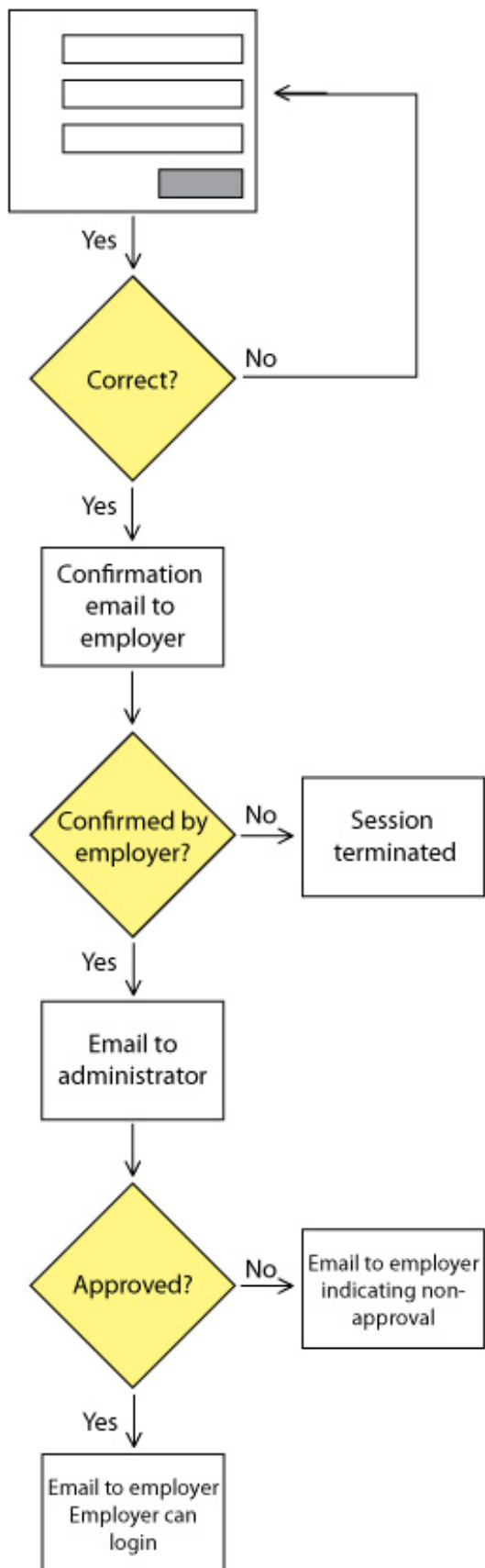
- Home / Accueil
- About / À propos
  - Skills Canada / Compétences Canada
- Employer / Employeur
  - Visibility / Visibilité
  - Make it Easy / Faciliter
  - Results / Résultats
  - Become a Employer / Devenir un employeur
- Candidate / Candidat
  - Become a candidate / Devenir un candidat
- Job Listing / Liste des emplois
- Advice / Conseils
  - Interviewing / Entrevue
- Contact Us / Contactez-nous

### **Footer Menu Structure**

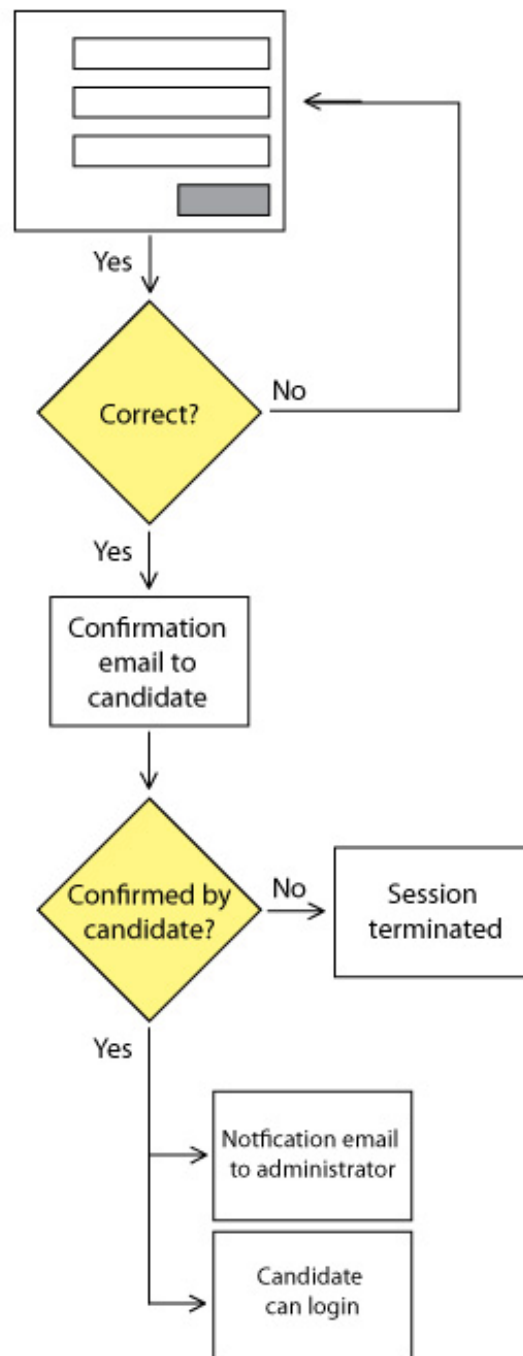
- Privacy Policy / Confidentialité
- Copyright / Copyright
- Legal / Mentions légales

## APPENDIX B

### Employer Registration Workflow:

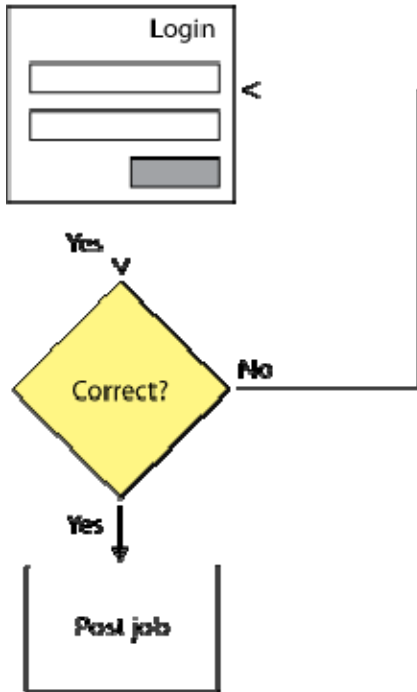


### Candidate Registration Workflow:

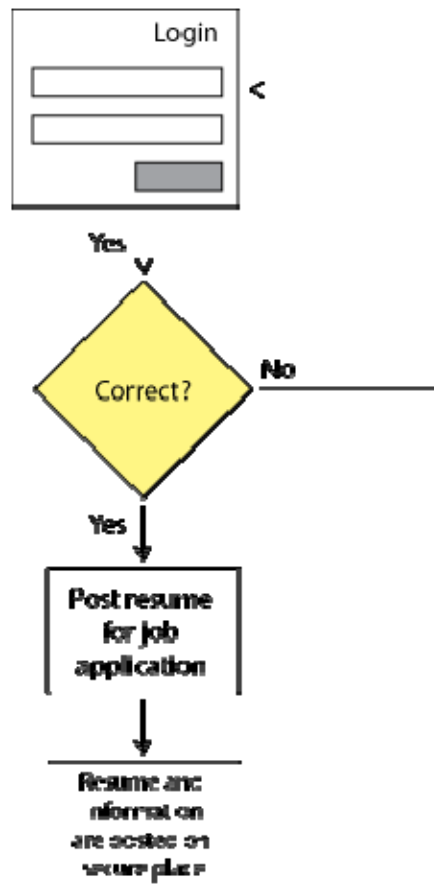


**APPENDIX C**

**Employer Posting Workflow:**



**Candidate Posting Workflow:**



## APPENDIX D:

### Provinces:



Alberta



Northwest Territories



Prince Edward Island



British Columbia



Nova Scotia



Québec



Manitoba



Nunavut



Saskatchewan



New Brunswick



Ontario



Yukon



Newfoundland and Labrador

### Skilled Categories:

Aesthetic Technician	Heavy Equipment Service Technician
Aircraft Maintenance Technician	Industrial Mechanic/ Millwright
Architectural Technology & Design Technician	IT and Network Specialist
Autobody Repair Technician	IT Office Software Applications
Automation and Control Technician	Landscape Gardener
Automotive Service Technician	Mason Contractor
Baker	Mechanical CADD Technician
Cabinet Maker	Mechatronic Engineer
Car Painter	Outdoor Power and Recreation Equipment
Carpenter	Plumber
Chef	Precision Machinist
CNC Machinist	Refrigeration
Computer Animation	Restaurant Service
Electrician	Robotics
Electronic Technician	Sheet Metal Worker
Fashion Technologist	TV / Video Producer
Graphic Designer	Web Site Developer
Hairstylist	Welder