

Curriculum Workflow Management System (Prototype) – UX Enhancement

COMP 4513 Assignment 2

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Steps for loading test data

The mysqldump file, named “Sql/mysqldump.sql”, contains the backup of the MySQL database with all tables and stored procedures.

The stored procedure, “**recreate**”, cleans up the database and loads test data into the following tables:

- Faculty
 - Bissett School of Business
 - Science and Technology
- Disciplines
 - Management
 - Marketing
 - Computer Science
- Roles
 - Faculty Member
 - Faculty Curriculum Member
 - Faculty Council Member
 - APPC Member
 - GFC Member
- ApprovalChain
 - Program
- ApprovalChainSteps
 - The approval workflow for program
- Status
 - PENDING_APPROVAL
 - APPROVED
 - COMPLETED
 - REJECTED

Changes Made

The second iteration of the curriculum workflow management system is primarily focused on user experience (UX) enhancement. A new visual design has also been implemented on certain pages. Client side programming languages such as jQuery and javascript has been added. The site will still function with Javascript disabled; however, you will not receive the enhanced UX with JavaScript enabled.

Change 1 – Client side validation



Client side validation has been added to the following pages to reduce the load on the server:

- Sign In page
- Sign Up page
- New Program Request page

2 new files were included to the source code:

- errors.js – functions for handling errors and clearing errors
- errors.css – styling the error messages

Screenshots

Javascript disabled	Javascript enabled
 <p>MOUNT ROYAL UNIVERSITY 1910</p> <p>Please sign in</p> <p><i>The email or password provided is incorrect.</i></p> <input type="text" value="email"/> <input type="password" value="password"/> <input type="button" value="Login"/> Don't have an account?	 <p>MOUNT ROYAL UNIVERSITY 1910</p> <p>Please sign in</p> <p><i>You must enter a password.</i></p> <input type="text" value="jlai4991@mtroyal.ca"/> <input type="password" value="password"/> <input type="button" value="Login"/> Don't have an account?

Change 2 – Multi-stage form

Multi-stage forms have been implemented on forms containing main input fields. The following pages have been updated to include multi-stage forms:

- New Program Request page

PHP and Database changes were required for adding more fields to Program.

Javascript functions have been added to the following file:

- /View/Program/Request.php – functions responsible for hiding certain sections of the form if JavaScript is enabled

Screenshots

Javascript disabled	Javascript enabled
<div><h3>Create Program</h3><p>Requester: Joey Lai</p><p>Program Name: Program Name</p><p>Effective Term: 2014 - Fall</p><p>Faculty: Bissett School of Business</p><p>Discipline: MGMT - Management</p><p>Cross Impact: Please identify how impact to other departments has been addressed, including General Education as appropriate</p><p>Student Impact: Please identify how student input or impact has been assessed</p><p>Library Impact: Please identify how impact to the Library has been addressed</p><p>ITS Impact: Please identify how impact to ITS has been addressed</p><p>Comments: Comments...</p><p>Attachments: Choose Files No file chosen</p><p>Request</p></div>	<div><h3>Create Program</h3><p>Step One Step Two Step Three</p><p>Requester: Joey Lai</p><p>Program Name: Program Name</p><p>Effective Term: 2014 - Fall</p><p>Faculty: Bissett School of Business</p><p>Discipline: MGMT - Management</p><p>Next</p></div>

Change 3 – Expand textbox height on focus

Certain input fields that may contain many characters will expand on focus. This feature has been included to the following pages:

- New Program Request page
- Program Summary page
- Program Approval page

1 new JavaScript file was included to the source code:

- animation.js – functions for animation certain HTML selectors

Screenshots

Javascript disabled		Javascript enabled	
Cross Impact	<input type="text" value="Please identify how impact to other departments has been addressed, including General Education as appropriate"/>	Create Program	
Student Impact	<input type="text" value="Please identify how student input or impact has been assessed"/>	Step One <input checked="" type="radio"/>	Step Two <input type="radio"/>
Library Impact	<input type="text" value="Please identify how impact to the Library has been addressed"/>	Cross Impact	<input type="text" value="Please identify how impact to other departments has been addressed, including General Education as appropriate"/>
ITS Impact	<input type="text" value="Please identify how impact to ITS has been addressed"/>	Student Impact	<input type="text" value="Please identify how student input or impact has been assessed"/>
		Library Impact	<input type="text" value="Please identify how impact to the Library has been addressed"/>
		ITS Impact	<input type="text" value="Please identify how impact to ITS has been addressed"/>
		<input type="button" value="Next"/>	

Change 4 – Collapsible text

Collapsible text has been added to the following pages to reduce the size of pages due to long text:

- Program Summary page
- Program Approval page

2 new files were included to the source code:

- collapse-text.js – written some jQuery plugin functions for adjusting text heights
- collapse-text.css – styling read more/read less actions

Screenshots

Javascript disabled	Javascript enabled
<div>Summary</div> <div>Requested On: 2014-10-19</div> <div>Requested By: Joey Lai</div> <div>Name: Lorem Ipsum</div> <div>Faculty: Science and Technology</div> <div>Discipline: Computer Science</div> <div>Cross Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.</div> <div>Student Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.</div>	<div>Summary</div> <div>Requested On: 2014-10-19</div> <div>Requested By: Joey Lai</div> <div>Name: Lorem Ipsum</div> <div>Faculty: Science and Technology</div> <div>Discipline: Computer Science</div> <div>Cross Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem read more ...</div> <div>Student Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem read more ...</div> <div>Library Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem read more ...</div> <div>ITS Impact: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem read more ...</div>

Change 5 – Auto Redirect

Auto redirect will automatically redirect to another page after 10 seconds.

Auto redirect has been implemented on the following pages:

- Program Requested Page

Javascript functions have been added to the following file:

- /View/Program/Requested.php – countdown function to redirect

Screenshots

Javascript disabled	Javascript enabled
<p>Program requested is now in the approval process.</p> <p>Click here to view your request</p> <p>You can also check the status of your request on the Homepage.</p>	<p>Program requested is now in the approval process.</p> <p>Redirecting to Program Summary in 4 seconds...</p> <p>You can also check the status of your request on the Homepage.</p>

Change 6 – Asynchronous form submit

I have added the functionality of adding a comment asynchronously on the Program Summary page.

Javascript functions have been added to the following file:

- /View/Program/Summary.php – ajax function to submit a comment

Screenshots

This feature looks the same having JavaScript enabled or disabled. The only difference is the page will not refresh with JavaScript enabled.

Change 7 – Asynchronous Search

I have added the functionality of asynchronous search, similar to Google, where search results are updated each key press. The initial search (on the header) will redirect the user to the search page, where the user can then search asynchronously using the search bar in the page.

Javascript functions have been added to the following file:

- /View/Search/SearchResults.php – ajax function to search asynchronously

Screenshots

This feature looks the same having JavaScript enabled or disabled. The only difference is the page will not refresh with JavaScript enabled.

Change 8 – Sorting Search Results

I have added the functionality of sorting search results. I have decided to do the sorting on PHP to demonstrate the use of ajax functions. This also allows me to follow the MVC architecture that I have set up from the first iteration of this project, where the logic is delegated to the Controller layer; therefore, simplifying and reducing complexity in the View layer.

1 new file have been added to the source code:

- /View/Search/SearchViewHelper.php – sorts the search results array by the selected column.

Screenshots

This feature looks the same having JavaScript enabled or disabled. The only difference is the page will not allow sorting if JavaScript is disabled.

Appendix

Code revisions can be viewed/downloaded on Github:

https://github.com/jlai403/COMP4511-Curriculum_CMS