

**UNIVERSITY OF REGINA**  
**Department of Computer Science**

**CS 215 – Web & Database Programming**  
**Fall 2018**

**Assignment #2: Micro-Polling Website – Interface Design & Mock-Up**

**Due: Tuesday October 2, 2018 by 11:55 PM**

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The goal of this assignment is for you to build the core interface design and elements for a micro-polling website that allows users to post single-question polls for others to answer. In the subsequent assignments, you will implement form validation in JavaScript (Assignment #3), design and implement the database (Assignment #4), implement the back-end programming in PHP (Assignment #5), and implement AJAX-based updating (Assignment #6). Because the other assignments build upon this one, you should take care to make a complete interface with all of the required elements (listed below). However, you will have a chance (and in some cases, be required to) update your previous work in the subsequent assignments.

The first step in creating the micro-polling website is to create the interface design and mock-up. There are a number of critical pages that will need to be designed, created, and linked together to illustrate the interface features. For those pages that will ultimately contain user-contributed data, they can be loaded with sample data to illustrate your design. You should start by (1) sketching each page and refine your sketches until you are satisfied with the design, (2) draw storyboards of the critical task to be completed in the application, and then (3) build the pages using HTML5 and CSS.

The following pages are to be created:

1. Main Page

The purpose of this page is to provide branding for your micro-polling site, and to show a list of the five most recent active polls. There should also be a form to allow the user to enter their username and password to login, and a link to the sign-up page.

2. Sign-up Page

This page should include a form to collect the information required for creating a new account on your micro-polling site. At the least, it should collect an email address, screen name, date of birth, avatar image/graphic, and a password. The form should ask the user to enter their password twice, to ensure that it is entered properly.

3. Poll Management Page

This is the default page to load after a successful login. It should show a list of the polls posted by the user, ordered by date/time of creation (most recent first). Eventually, it will be loaded with content extracted

from the database; for now, it can be loaded with sample information in order to illustrate the design.

Each poll in the list should include the date/time the poll was created, the question, the list of answers, a graphical representation of the number of votes for each answer, and the date/time of the most recent vote.

Note that this page will be customized for each user. As such, the page should show the screen name and avatar of the logged-in user. The details for how this information is selected will be handled in future assignments. For now, you can provide sample data.

#### 4. Poll Creation Page

This page contains the form that will be used to allow the logged-in user to create a new poll. It will have form fields for the open and close date/times, the question to be asked, and the possible answers (up to five).

Eventually, you will write software to enforce character limits on the questions and answers, and ensure that only logged-in users can create polls.

#### 5. Poll Vote Page

This is a public page (no login required) that shows a specific polling question and allows the user to select one answer from the list provided. It should also include the screen name and avatar of the user that created the poll. This page may be accessed from the main page of the site, or from the user's poll management page.

#### 6. Poll Results Page

This is a public page (no login required) that shows the results of a specific poll (the question and a graphical representation of the number of votes for each answer). It should include the screen name and avatar of the user that created the poll. This page may be accessed from the main page of the site, from the user's poll management page, or after submitting a vote from the poll vote page.

All of these files should be linked together, so that it is possible to click through the pages to evaluate the design and implementation.

You must ensure that each of these pages makes appropriate use of HTML5 (following the syntax rules of XHTML) and CSS, and construct them such that there is a proper separation of the specification of the content from the specification of the presentation rules. Your submission should include six sketches (one per page), a set of storyboards, six HTML5 pages, and a single CSS file.

## Grading Scheme

This assignment will be graded out of 10 marks, based on the following criteria:

- 2 marks: Sketches of the interface pages, following appropriate design principles
- 2 marks: Storyboards of the key user tasks
- 4 marks: HTML5 that follows XHTML syntax rules for all six pages
- 2 marks: A single CSS file to specify the presentation details

If there are any missing pages, your grade will be scaled down according to the number of missing pages. For example, if you submit only 5 of the 6 required pages, your grade will be 5/6 of what is assigned based on this marking scheme.

## Submissions

All of the files for this assignment must be posted to your personal website on Hercules, as well as uploaded to UR Courses (a single zip file that includes scans of the sketches and storyboards, as well as your website directory). A simple submission log file should be provided that includes your name, student number, class number, the URL of where you have posted the files, and a listing of the files you have submitted along with a short explanation of the purpose of each file.

You must also provide a link to your web application (posted on Hercules) as part of the submission process, which will enable the TA to easily access a live version.

**Failure to provide these support documents will result in delays in the grading of your assignment and possibly a deduction in your grade.**

Late submissions will not be accepted. If there are exceptional circumstances that kept you from submitting your assignment on-time, you should consult with your instructor as soon as you are able to do so. See the syllabus for more details on the late policy for this class.