

# DMIT2503 – ADVANCED WEB CONCEPTS

## LAB 7: MVC FRAMEWORK - CODEIGNITER

**Overview:** Based on the lessons in the MVC framework CodeIgniter, please demonstrate a simple content management app (built in CodeIgniter) that allows for an authenticated user to create, edit, and delete articles that any guest user can read. This is worth 15 marks for 15% of DMIT2503.

*Notes:*

- You may or may not re-install CodeIgniter.
  - You can continue working on the current build that we started in class and modify the existing CRUD section. Please remove *birds* or *crud* links.
  - You can copy/paste the entire build. Make darn sure you change the config/config/base\_url if you do this. Many student have forgotten this and each link redirects you back to the original build which is very confusing.
- Marks may be deducted for any poor UX such as having unnecessary links, or missing necessary links. Validation should make sense for full articles of content.
- The instructor's demo shows an optional feature with image uploads.

### **Part 1: Create an Articles Section. [5 marks]**

- MVC files created that allows for articles to be displayed, created, edited, and deleted.
- Controller should be named *articles*. If copy/pasting your CRUD controller (might as well), then make darn sure you rename the class as well as the file.
  - Please make sure you don't just keep using *animal\_name* as your form input because it's easy.
- Articles/index should list your articles. Also, you can set this as the default controller (config/routes) so that it shows on the home page..
- All necessary validation.
- Several articles created.
- Content can be anything you source, but should be several paragraphs of text.
- Home page shows a title, truncated content (a brief amount but not all), and a *Read More* link to a detail page with all the content.
- Each full article should show the following:
  - Title.
  - Content: Line breaks need to be displayed.
  - Time/date created (formatted on output please).

### **Part 2: Ion Auth is integrated correctly and relational DB techniques utilized: [5 marks]**

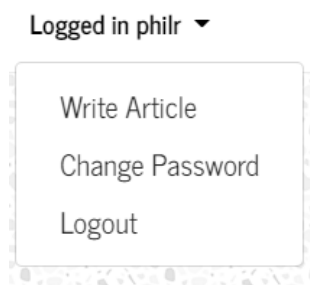
- Ion Auth allows a user to login or to register.
- Please show at least 2 articles by each of 3 different authors .
- Authors can edit/delete their own content only.
- The Articles *write*, *edit* and *delete* sections are protected from unauthorized access.
  - Any article can be *read* by any guest (anyone not logged in).
- Any article displays the *full name* or *username* of the person who wrote it. Please store the *user\_id* in the table, and do a JOIN to retrieve this.
- All necessary forms have been styled. Ion Auth did not come with styles so it is up to you to style views for *login* and *register*. Change Password, etc. are not necessary for this Lab.
- Please create a new user so the instructor can test this. Feel free to write an article in my name.
  - Username: philr

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- Email: philr@nait.ca
- Password: webweb123 (must be >= 8 characters)

**Part 3: Challenges [5 marks].** Do one or more of the following, but you will be figuring these out for yourself.:

- **Integrate Image Upload/Resize:** As per instructor's demo, a new article can have an image associated with it. **[up to 4 marks].**
  - Should have at least 2 different sized images shown for each image uploaded.
  - Thumb on article list
  - Larger image on full article.
  - Validation for image type/size makes sense. Edit/delete of an image is not necessary.
  - Hint: Create new folders in the app root (uploads, pictures, pictures/thumbs/), and use `base_url()` to make all links absolute. Same as the rest.
- **Utilize a different UI** other than Bootstrap and do some interesting design. **[up to 2 marks].**
- **Correct app security is utilized: [2 marks].**
  - Authors can see buttons for Edit/Delete for their own content only.
    - Hint. Make sure `Ion Auth` is autoloaded, and then you can call model functions, etc. from your view. May not be pure MVC, but it works.
  - A `check_owner` model function: Any article ID is checked to make sure this user is the author. Any URL ID hacking is redirected away from harm.
- **Try something with the Calendar class: [up to 3 marks].**
  - Full desktop display please (an entire page for a monthly view).
  - Full marks only if events can be entered/stored in a DB.
- **A variable dropdown menu** for the *login* or *logged in as*: **[1 mark].**
  - Hint. Make sure `Ion Auth` is autoloaded, and then you can call model functions, etc. from your view. May not be pure MVC, but it works.
  - If user is not logged in, they see a single *login* link.
  - If they are logged in, they see a *logged in as {username}*, plus options to:
    - logout
    - change password
    - write an article.



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## ARTICLES LIST (HOME PAGE)

### Articles

#### Desolation Porn



Phil Redmond is a Canadian hack-photographer and a student of life who discovered a passing interest for photography about a million years ago. Since then he's traveled around the wastelands of Canada to capture the beauty of abandoned buildings that is one of his favorite subjects to immortalize. The places that he photographs vary from old swimming pools to cinemas where humans let nature take its way quite a long time ago. Those places are usually full of fungi, mold, plants, spider webs, snakes and other animals that do not sound so good at first, but the artist finds them...

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#### Playstation



PlayStation is a video game brand that consists of four home video game consoles, as well as a media center, an online service, a line of controllers, two handhelds and a phone, as well as multiple magazines. The brand is produced by Sony Interactive Entertainment, a division of Sony, with the first console releasing as the PlayStation in Japan released in December 1994, and worldwide the following year. The original console in the series was the first console of any type to ship over 100 million units, doing so in under a decade. Its successor, the PlayStation 2, was released...

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## FULL ARTICLE

### Paragliding

Added by Phil Redmond at April 6, 2020, 1:21 pm

Paragliding is the recreational and competitive adventure sport of flying paragliders: lightweight, free-flying, foot-launched glider aircraft with no rigid primary structure. The pilot sits in a harness suspended below a fabric wing. Wing shape is maintained by the suspension lines, the pressure of air entering vents in the front of the wing, and the aerodynamic forces of the air flowing over the outside.

Despite not using an engine, paraglider flights can last many hours and cover many hundreds of kilometres, though flights of one to two hours and covering some tens of kilometres are more the norm. By skillful exploitation of sources of lift, the pilot may gain height, often climbing to altitudes of a few thousand metres.

