

**IT 324 Web Systems and Technologies (Lecture)**  
**Final Course Project (30% of Finals Period Grade)**

**Project Objectives:**

- Utilize the various web technologies covered in the course to implement a rich UI/UX course website for the finals period topics.
- Enhance technical writing and presentation skills.
- Enhance group dynamics.

**Project Requirements:**

- Each group will implement a course website for the course's finals period topics.
  - The course website should include content focused on the following finals period topics:
    - Server-Side Web Scripting Technologies
      - Java Web Servlets and Java Server Pages (JSP)
      - PHP
      - Server-Side JavaScript (with Node.JS)
      - (optional) Other server-side web scripting technologies, e.g., Active Server Pages (ASP/ASP.Net), Common Gateway Interface (CGI), Ruby on Rails, etc.
    - Web Application Security (see OWASP Top 10 Web Application Security Risks)
- The implemented course website must provide a rich UI/UX, which may include appropriate (i.e., non-gratuitous) use of features such as (among others) the following:
  - Interactive Content, Multimedia Content, Animations
  - Check-Up Activities/Quizzes
  - Responsive Design, Mobile-Ready Design, Web Component-Based Design
  - Miscellaneous Application Functionalities
- The technologies to be used in the implementation of the course website are those technologies (or related ones) that were covered in the course. Only non-commercial technologies may be used (unless the group can demonstrate legal ownership of any commercial technology they use).

**Project Deliverables**

- Note: **All project deliverables are governed by the previously established Guidelines for Course Requirements.**
- **Progress Reports**
  - Each progress report must include a detailed account of the group's project progress, with information such as what has been accomplished so far, what are yet to be accomplished, group member tasks/assignments/accomplishments, etc.
  - Each progress report must include pertinent proof of work, which may be in the form of any of the following (or any such similar items):
    - code repository commit logs, logs of activities, screenshots of project management activity boards, etc.
    - application screenshots, pictures of low fidelity analysis/design activity artifacts, etc.
    - pictures of members at work
  - Progress Report Document Format:
    - To be printed on long (8"x13") bond paper, with 1" margin all-around, using size 12 Calibri font and 1.5 line spacing, stapled on upper left-hand corner.
    - Provide the report with a cover page containing the following information:
      - progress report number and date of submission
      - class code and lecture schedule

- alphabetical listing, by family name, of the members of the group, with member signatures affixed
- Due Dates (*submit as printed copy*):
  - Progress Report 1: [Friday, 27 April 2018, 12:00 NN](#)
  - Progress Report 2: [Thursday, 03 May 2018, 12:00 NN](#)
- **Final Project Document**
  - The final project document must provide a detailed description of the architectural design of the implemented website, highlighting the implemented website features, as well as how those features were implemented, with the technologies that were used and the purposes for which those technologies were used.
  - In addition to descriptive documentation, the final project document should also include other items such as the website's site map, annotated screenshots of the website's main interfaces, architectural diagrams of the website's design and implementation, etc.
  - Final Project Document Format
    - Same as the Progress Reports document format.
  - Due Date (*submit via Google Classroom AND as printed copy*): [Saturday, 12 May 2018, 5:00 PM](#)
- **Archived Final Project Output**
  - ZIP Archive of All Project Components/Artifacts (with the appropriate documentation on the project set up and configuration to facilitate its exploration and checking).
  - Due Date (*submit via Google Classroom*): [Saturday, 12 May 2018, 5:00 PM](#)
- **Peer Evaluation and Accomplishment Report**
  - Content/Format to be discussed with group representatives (wait for further announcements).
  - Due Date (*submit as printed copy*): [\(just before the group's scheduled presentation\)](#)
- **Project Presentation**
  - Each group will be given 10 minutes (minimum) to 15 minutes (maximum) to present their final project output. The allotted time will be inclusive of any Q&A time.
  - Each group must bring their own, pre-configured devices, to be used in presenting their project.
  - All group members must participate in the presentation.
  - Project Presentation Schedule: (wait for further announcements on when to sign up for the presentation schedule)
    - [Sunday, 13 May 2018, 8:00 AM to 5:00 PM](#)
    - [Monday, 14 May 2018, 8:00 AM to 5:00 PM](#)

## Project Evaluation

- Criteria:
  - [40%] Technical Implementation (what website features were implemented, and what technologies were used in implementing the said features, and how were they used)
  - [20%] Course Website Content (completeness and quality of the website's contents)
  - [20%] Project Documentation (Progress Reports 1 and 2, and the Final Project Document)
  - [20%] Project Presentation (completeness and quality of the group's presentation execution)
- Note: The individual grade of a group member will be based on the member's contributions to, and participation in, the entire project effort (as evidenced in the peer evaluation and accomplishment report submitted by the group).