**CSE3026: Web Application Development  
Project: Develop a Web Application**

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**Introduction**

**CSE3026: Web Application Development - Project**

* Topic: a useful Web application for Software Engineering Laboratory (selab)
* Scope: Renewal of Software Engineering laboratory's web application
* Type: group project - 5 ~ 6 people in a group
* Duration: the entire 2nd semester
* Deliverable: implementation + presentation + report
* Counts towards 30% of the final course grade

**Description**

**Your Own Web Application for SE Lab.**

1. Investigate, analyse, and identify problems / issues / inconveniences that you've experienced in using the existing selab web application. For example :
   * lab / exercise / assignment submission system has terrible GUI and is not intuitive at all to use
   * there is no adequate means to communicate with professor / researcher
2. Propose 1 killer function and service that resolves one or more problems / issues / inconveniences identified. For example :
   * standalone submission and marking system
   * interactive course forum and
   * real-time Q&A system for the lecture
   * screen or desktop share system for the lecture

**Description**

**Your Own Web Application for SE Lab.**

1. Do background research and literature reviews in the related area (to enable adequate implementation of the proposed function / service)
2. Design a standalone Web application for SE Lab that mainly focuses on the proposed function / service
3. Implement the Web Application according to your design
   * Every contents, features, services in the current SE Lab. Web application should be included in the implementation. (maybe in an improved form)
   * Extra points will be awarded for extra features (BUT it is advisable to concentrate and focus on 1 killer function / service)
4. Present your design and complete solution
5. Write and submit a project report

**Requirements & Marking Scheme**

**Topic Selection & Web Application Design [5%]**

* should be able to convince others that the proposed topic really is a problem or causes inconvenience
* designed Web application must be useful, valid, and feasible solution to the identified problem
* desinged Web application should be original, novel, and innovative

**Requirements & Marking Scheme**

**Implementation [15%]**

* both client and server-side implementations of the designed Web application must be implemented
* the designed Web application must be implemented with the proper and valid use of:
  + HTML5, CSS3, Page layout, PHP, JavaScript, DOM, Prototype, Events
  + & optionally - RDB, SQL, Ajax, XML, JSON, Scriptaculous
* only completed and working part of the implementation will be considered
* you are more than welcome to use more advanced technologies

**Requirements & Marking Scheme**

**Presentation [5%]**

* total 10 minutes: 7 minute presentation + 3 minute Q&A
* present the selected topic & implemented Web application in terms of significance, originality, novelty, purpose, and innovative nature
* breifly describe design and technologies used to impelment Web application
* demonstrate your web application
* focus on usefulness of your Web application & effectiveness, efficiencies, and other benefits it will provide

**Requirements & Marking Scheme**

**Rreport [5%]**

* Project report should be written and submitted upon project completion. It should be more than 5 pages, single spaced 11/12pt, and with the following sections :
  + Abstract: use no more than 100 words to describe your web application
  + Problem specification: describe the selected topic in detail (what & why) with examples and case-studies if necessary
  + Web Application Design and Implementation: describe Web application design and implementation in detail (design, architecture, functionalities, etc)
  + Conclusion : restate the problem and its significance & write down the possible contributions of your proposed solution

**Requirements & Marking Scheme**

**Plagiarism**

* Plagiarism is **serious criminal offence**!
  + Do NOT copy and paste other's code segments in your implementation!
  + Do NOT use online contents (e.g., image) without authorization
  + Quote where a sentence of part of a sentence of others are directly used in your report - use refrences and quotes appropriately
  + **Offenders will be heavily punished and receive ’F’ for this course**

**Important Dates**

* Project Group Formation: 25 September 11:59pm
* Project Topic Discussion & Advices: TBA
* Project Presentation: 13 ∽ 20 December (tentative!)
* Project Implementation and Report Submission: 13 or 20 December 11:59pm (tentative!)