TDP013 – Web Programming and Interactivity

Introduction

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Course structure

- https://www.ida.liu.se/~TDP013/
- The four lectures introduce basic techniques for web application development
- Labs (U, G)
  - Lab 1: Node.js, Express, MongoDB, Code testing and coverage tools
  - Lab 2: HTML, CSS, JavaScript, CORS and AJAX
- Project: A Social Website (U, 3, 4, 5)
- Ethics task (U, G)
  - A report (one A4 page)
  - Seminar

Teachers

- Examiner: Huanyu Li
- Lectures: Huanyu Li
- Ethics task seminars: Huanyu Li, Charlie Simonsson and Anders Fröberg
- Project presentation seminars: Huanyu Li, Charlie Simonsson and Anders Fröberg
- Lab assistants: Heba Mohamed Abdelmotaleb Ghanem, Jakob Tormalm, Kacper Mateusz Sieklucku, Simon Ekman

- Director of studies: Anders Fröberg

Course design

- The goals of bachelor's degrees include:

> *För kandidatexamen skall studenten - visa förmåga att söka, samla, värdera och kritiskt tolka relevant information i en problemställning samt att kritiskt diskutera företeelser, frågeställningar och situationer,*
>
> **- Högskoleförordning (1993:100)**

- This course places strong emphasis on independently searching for the information needed to solve tasks
- The course introduces the techniques used in the course

Focused Web technologies

- Client-side
  - HTML, CSS, JavaScript and cookies

- Server-side
  - Node.js
  - Express framework
  - Sessions
  - MongoDB
  - Code testing (Mocha: https://mochajs.org/)
  - Code coverage (Istanbul/nyc: https://github.com/istanbuljs/nyc, c8: https://github.com/bcoe/c8)

Examination

- Computer exercises (lab) and projects are primarily done in pairs
- Projects will be presented in smaller groups
- Submissions are done via gitlab.liu.se

- PRA1, Project, 3 credits, (U, 3, 4, 5)
- LAB2, Computer exercises, 2.5 credits, (U, G)
- UPG1, Active participation during seminars, 0.5 credits (U, G)

Actions and deadlines

- Lab group registration on Webreg, deadline is **2026/09/02**
  - Gitlab repositories will be assigned after the deadline
  - https://www.ida.liu.se/webreg3/TDP013-2026-1/LAB2
  - Lab submission deadlines: 09/14 for lab1, 09/24 for lab2
- Project group registration on Webreg (same as lab pairs)
  - https://www.ida.liu.se/webreg3/TDP013-2026-1/PRA1
  - Project submission deadline: 10/13, presentation seminar on 10/14
  - Revised submission deadline: 10/21

- Instructions for registering seminars for ethics task and project presentation will be communicated via email

Changes w.r.t. last time

- Re-structured course web pages
- Updated lecture slides, lab and project instructions
- References to materials for starting the lab and project

Questions?