

TDP013 – Web Programming and Interactivity

Introduction

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Teachers

- Examiner: Huanyu Li
- Lectures: Huanyu Li
- Ethics task seminars: Huanyu Li, Charlie Simonsson and Anders Fröberg
- Project presentation seminars: Huanyu Li and Charlie Simonsson
- Lab assistants: Andreas Stenmark, Hussnain Haider, Simon Gunnarsson, and Younes Slibi
- 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 intends to introduce the techniques used in the course

Course structure

- <https://www.ida.liu.se/~TDP013/>
- Four lectures include introducing code examples focusing on several web technologies
- Labs
 - Lab 1: Node.js, Express, MongoDB, Code coverage tools
 - Lab 2: HTML, CSS, JavaScript, CORS and AJAX
- Project: A Social Website
- Ethics task (in software development)
 - A report (one A4 page)
 - Seminar

Focused Web technologies

- Client-side
 - HTML, CSS, JavaScript and cookies
- Server-side
 - Node.js
 - Express
 - Sessions
 - MongoDB
 - Code testing (Mocha: <https://mochajs.org/>)
 - Test coverage (Istanbul: <https://istanbul.js.org/>, Istanbul/nyc: <https://github.com/istanbuljs/nyc>)

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 **2025/09/03**
 - Gitlab repositories will be assigned after the deadline
 - <https://www.ida.liu.se/webreg3/TDP013-2025-1/LAB2>
 - Lab submission deadlines: 09/12 for lab1, 09/24 for lab2
- Project group registration on Webreg (same as lab pairs)
 - <https://www.ida.liu.se/webreg3/TDP013-2025-1/PRA1>
 - Project submission deadline: 10/14, presentation seminar on 10/15
- Instructions for registering seminars for ethics task and project presentation will be communicated via email

Questions?