



IF3110 – Web-based Application Development

Introduction

Objectives

- › Understanding on how Internet works, how Internet-based Application works
- › Ability to develop an application using various technologies at server & client side
- › Ability to design an Internet application w/ considering various qualities (e.g., security, performance, usability)

Course Activity

- › Courses: 2 credits
 - › 2 hours lectures – Tuesday 07.00 – 8.40 (K1, K2, K3, K4)
 - › 4 hours independent activities (e.g., exploration, assignment)
 - › Lecturers:
 - › K1: Muhammad Zuhri Catur Candra
 - › K2: Yudistira Dwi Wardhana Asnar
 - › K3: Anggrahita Bayu Sasmita
 - › K4: Riza Satria Perdana
- › Assessment
 - › Assignments: 2-3x
 - › Exams: Quiz, Mid, and Final
 - › Note: Assignments are dominant

Course Activity: Assignment

- › It is done individually OR in a group of 3 students (defined by lecturers)
- › It must be submitted following the procedure defined by assistants
- › Some assignments need to be presented to the assistants
- › More details will be defined at the assignment's Term of References

Topics

- › Basic Concepts of Internet and Internet Application
- › Basic Web
 - › HTTP
 - › HTML + Java Script + CSS
- › Dynamic Web
 - › Client Side: Java Script
 - › Server Side
 - › AJAX
- › Trends on Web Technology
- › Web Service, Enterprise Web, SOA
- › Cloud
- › Quality: Accessibility, Performance, and Security

Assignment

- › Server Side + AJAX
- › Web Service + Cloud

References (some)

- Web Technologies: A Computer Science Perspective, Jeffrey C. Jackson, Prentice Hall, 2006
- Developing Large Web Applications: Producing Code That Can Grow and Thrive, Kyle Loudon, O'Reilly Media, Inc., 2010
- HTML5: Up and Running, Mark Pilgrim, O'Reilly Media, Inc., 2010

References (some)

- The Java EE 6 Tutorial: Basic Concepts, Eric Jendrock & Ian Evans & Devika Gollapudi & Kim Haase & Chinmayee Srivathsa, Prentice Hall, 2010
- JavaScript: The Definitive Guide, David Flanagan, O'Reilly Media, 2011
- **Remark:** slides and books are just the guideline to follow the course. Use Internet for complete references

Communication

- › Synchronous will held at Zoom/MS Team/Google Meet
- › Microsoft Teams
 - › Member: lecturers, assistants, students
 - › Purpose :
 - › announcement (esp. lecturer/assistant → students)
 - › discussion relevant to the cours
- › Lecturers' email
 - › catur@staff.stei.itb.ac.id
 - › yudis@staff.stei.itb.ac.id
 - › angga@staff.stei.itb.ac.id
 - › riza@staff.stei.itb.ac.id
 - › with subject: [IF3110] xxxx
- › Remark: This means can be modified as the best suited for the lecturers