Introduction to Agile Web Development

CITS3403 Agile Web Development
Life without the Internet?

CITS3403 Agile Web Development

Introduction
How many users are on the Internet

World Internet Population Growth

Internet Users in the World by Regions - December 31, 2017

(data from https://www.internetworldstats.com/emarketing.htm)

Source: Internet World Stats - www.internetworldstats.com/stats.htm
Basis: 4,156,932,140 Internet users in December 31, 2017
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Source: http://www.internetworldstats.com/stats.htm
Which region are more connected?

Source: http://www.internetworldstats.com/stats.htm
Internet Usage Growth

Internet Usage (Engagement) Growth Solid
+11% Y/Y = Mobile @ 3 Hours / Day per User vs. <1 Five Years Ago, USA

Time Spent per Adult User per Day with Digital Media, USA, 2008 – 2015YTD

Source: @KPCB

(2015; 2015) - @KPCB

Note: Other connected devices include OTT via games consoles. Mobile includes smartphones and tablets. Usage includes both home and mobile. Ages 18+. Time spent with each medium includes all time spent with that medium, regardless of multitasking.
Welcome to Agile Web Development!

• ...and changing the world
  • Unprecedented access to information
  • Unprecedented access to services
  • Fundamental changes in the way business takes place
  • Fundamental changes in the way people interact socially
This Unit

• Focus on programming for the WWW
• Includes
  – markup languages and protocols
  – document object models and event handling
  – client-side scripting
  – NOSQL database backends
  – MVC architecture and object relational modelling
  – NodeJS Server side scripting
• Primarily use open source technologies
  – you can use it at home
Unit Information

• Coordinators/lecturers:
  – Dr Wei Liu (wei.liu@uwa.edu.au)

• Teaching sessions
  – lectures: Wednesday 2-4pm
  – CITS3403 Laboratory: Mon 4-6pm and Wed 4-6pm, Lab 2.01 (starting week 2)
  – CITS5505 Laboratory: TBA
  – Consultation: Wed 1-2, Rm 2.18

• Help forum
  • https://secure.csse.uwa.edu.au/run/help3403

• Notes are available in PDFs on the unit website

• Echo 360 - lecture recordings

• http://teaching.csse.uwa.edu.au/units/CITS3403/

• Unit Timetable
  • http://timetable.applications.uwa.edu.au/index.html
Recommended Readings


Labs

- Lab work may need to be completed outside of scheduled lab times
  - You are expected to spend 10 hours per week on a 6 point unit
  - 2 hours lectures, 8 hours reading and lab work
  - Come to labs for help
- It is very important that you keep up with the lab work!
Assessment

Please ensure you have consulted the Unit Outline for information on:

- unsatisfactory progress
- late assessment penalties
- plagiarism policy
- including ACE and academic misconduct
- Faculty marks adjustment policy

<table>
<thead>
<tr>
<th>Assessment</th>
<th>% of final mark</th>
<th>Assessment Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Stage I</td>
<td>20</td>
<td>11:59pm Monday 9 April</td>
</tr>
<tr>
<td>Mid-semester Test</td>
<td>10</td>
<td>2:00-2:45pm, Wednesday 11 April</td>
</tr>
<tr>
<td>Project Stage II</td>
<td>20</td>
<td>11:59pm Monday 28 May</td>
</tr>
<tr>
<td>Final exam</td>
<td>50</td>
<td>End of Semester Examination Period</td>
</tr>
</tbody>
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Help Forum (help3403/help5505)

• Content related issues:
  • https://secure.csse.uwa.edu.au/run/help3403
    – *course announcements* (including assessment clarification/changes!)
      • you are required to check this page regularly
      • postings to this page are considered distributed to all
      • you can change your user settings so you are emailed any postings - *strongly recommended!*
      – answers to frequently asked questions
      – help on “extra-curricular” problems - eg. setting up and running the software at home
        • someone else may have the same setup or experienced the same problem
        
        *Keep active, keep in touch!*
  
• MIT specific issues:
Because the Internet is a BIG PLACE!

Visualization of the various routes through a portion of the Internet. Contributed to Wikipedia by Matt Britt.
• A Brief History of the Internet