COE 485 Senior Design Project

Computer Engineering Department

KFUPM, Saudi Arabia

Spring 2010 (Term 092)

Dr. Ahmad Almulhem
This Course

• This course is to give students the experience of tackling a realistic engineering problem.

• **Develop a complete product** starting from a *description*:
  • Analysis (scope, requirements, survey)
  • Design (modules, UI, logic, database)
  • Implementation (language, libraries)
  • Documentation (report, website)
Projects

• **Theme:** Computer and Network Security

• **Teams:** 3 Students

• **Deliverables:**
  
  • Software (Application, Tool, ... etc)
  
  • Complete Report
    
    – Survey/Analysis, Design, Implementation
  
  • Website
    
    – User guide, Screenshots, video, ... etc.
Required Skills

- Programming (Java, PHP, HTML, ...)
- Basic knowledge in computer security
- Basic Knowledge in Operating Systems
- Written and oral communication
- Teamwork
- Time and Project management
Roadmap

iterative development approach

ITERATION # 1
- Complete Proposal
- Partial Design
- Initial UI/website

ITERATION # 2
- Revised Proposal
- Complete Design
- Revised UI/website
- Partial logic

ITERATION # 3
- Complete Product
- Complete Document
- Complete website
# Grading

<table>
<thead>
<tr>
<th>Project selection</th>
<th>4% (Feb 28, W2)</th>
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<tbody>
<tr>
<td><strong>Iteration#1</strong></td>
<td>15% (March 14, W4)</td>
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<tr>
<td>Document1: proposal (survey, tasks), partial design</td>
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<tr>
<td>Demo1: Initial UI, website</td>
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<tr>
<td><strong>Iteration#2</strong></td>
<td>20% (April 11, W8)</td>
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<tr>
<td>Document2: revised proposal, complete design</td>
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<tr>
<td>Demo2: complete UI, website, partial logic</td>
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<tr>
<td><strong>Iteration#3</strong></td>
<td>40% (May 30, W14)</td>
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<tr>
<td>Document3: Final report (survey, design, implementation), website</td>
<td></td>
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<tr>
<td>Demo3: complete product</td>
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</tr>
<tr>
<td><strong>Progress presentations</strong></td>
<td>6% (W6, W10, W12)</td>
</tr>
<tr>
<td><strong>Peer evaluation</strong></td>
<td>9%</td>
</tr>
<tr>
<td><strong>Attendance</strong></td>
<td>6%</td>
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Policies

- No Incomplete Grade (IC)
- All deadlines are hard.
  - Late submission = 25% penalty every 12 hours.
- Attendance is required
  - 3 absences = DN grade