CSE 118 + 218

Final Report + Final Demos and Presentation

Nadir Weibel
Quick Project Updates
Deadlines and Summary

- Final Poster is due Friday 12/7, 11:59pm (upload to Google Classroom). We will print it.

- Final Demos will be on Tuesday 12/11 2-5pm in CSE 1202 (1-2pm setup, 5-6pm teardown)

- Poster Presentations will be at the beginning of the walk-through demo (whole team must be present)

- Final Project Reports are due Fri 12/14, 11:59pm (upload to Google Classroom)
Final Demo

• Final Demos will be on Tuesday Dec 11
• 2-5pm in CSE 1202 (Setup 1-2pm, Teardown 5-6pm)

• Every team will have a table

• Need to be able to demonstrate the final application and to present technical details

• Instructors will walk through the demos and evaluate them
• Included with the Final Demo Walk through

• First 5min of demo will have to be a formal presentation of the submitted poster

• Poster: follow loosely the project report structure, i.e. have sections for motivation, Design, System Development (incl. Architecture, Technology Used, Features), Testing and Evaluation, Conclusion and Future Work

• After the poster presentation, we will ask question and ask to see a demo of your system
Final Demo/Presentation Grading  
(subject to change)

• Grading Rubric


<table>
<thead>
<tr>
<th>Category</th>
<th>Presentation Logistics</th>
<th>System/Demo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max points</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Relative value</td>
<td>33%</td>
<td>33%</td>
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<tr>
<td>Team 1</td>
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<td>Team 2</td>
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<td>Team 8</td>
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<tr>
<td>Team 9</td>
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<tr>
<td>Content</td>
<td>All required aspects (Intro, Motivation, Background, System (architecture, technology, features), evaluation, collaboration, conclusion)? Is the use of graphics appropriate?</td>
<td></td>
</tr>
<tr>
<td>Organization</td>
<td>Is the presentation following a structure that makes sense, who forward references? Is the flow logical? Can the audience follow?</td>
<td></td>
</tr>
<tr>
<td>Delivery</td>
<td>Do the presenters speak clearly, with good modulation/emphasis? Do the presenters use appropriate technical terms? Is there eye-contact? Is it completed in the allotted time?</td>
<td></td>
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<tr>
<td>Functionality -&gt; motivation</td>
<td>Does the functionality that has been developed match the motivation and requirements? Are all features implemented as advertised?</td>
<td></td>
</tr>
<tr>
<td>Technical Challenge</td>
<td>Was the project appropriately scoped to be a technical challenge, yet implementable? How difficult was this project for 4-6 students to build?</td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>Does the presented architecture work and make sense? Is there any unnecessary component? Is the data flow working? Are external APIs correctly integrated?</td>
<td></td>
</tr>
<tr>
<td>Modular/Extensible</td>
<td>Is the project easily extensible? By external engineers? Was it built in a modular fashion? Does it follow good principles of Software Engineering?</td>
<td></td>
</tr>
<tr>
<td>Ease of Use</td>
<td>Is the application/system easy to use for a novice? Is it implemented with the final user in mind? Will the final envisioned user able to use it effectively?</td>
<td></td>
</tr>
<tr>
<td>Look and Feel</td>
<td>Has the application been developed with an eye how it looks and feels? Is the final product enjoyable to see and use? Are colors and graphics used appropriately?</td>
<td></td>
</tr>
</tbody>
</table>
• **Content:** All required aspects (Intro, Motivation, Background, System (architecture, technology, features), evaluation, collaboration, conclusion)? Is the use of graphics appropriate?

• **Organization:** Is the presentation following a structure that makes sense, w/o forward references? Is the flow logical? Can the audience follow?

• **Delivery:** Do the presenters Speak clearly, with good modulation/emphasis? Do the presenters use appropriate technical terms? Is there eye-contact? Is it completed in the allotted time?

• **Functionality -> Motivation:** Does the functionality that has been developed match the motivation and requirements? Are all features implemented as advertised?

• **Technical Challenge:** Was the project appropriately scoped to be a technical challenge, yet implementable? How difficult was this project for 4-6 students to build?

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• **Ease of Use:** Is the application/system easy to use for a novice? Is it implemented with the final user in mind? Will the final envisioned user able to use it effectively?

• **Look and Feel:** Has the application been developed with an eye to how it looks and feel? Is the final product enjoyable to see and use? Are colors and graphics used appropriately?
Final Demo Schedule

• Each team will be allotted a 20min. Timeframe (i.e. 3-3.20, 4.20-4.40) for their demo and presentation.
  – We will let you know on Friday night, week 10.

• Every team member need to be there for the presentation
  – Let us know by Thursday if you have a conflict with another final on Tuesday afternoon

• For the rest of the time, at least 2 team members must always be present
Final Project Reports
Project Reports

• Final Project Reports are due Fri Dec 14, 11:59pm, upload to Google Classroom
  • 1 Report for 118 and 218 together (the project report)
  • 2 uploads on Google Classroom: 1x 118, 1x 218 (for grading purpose)

• Use ACM one column “large” template
  – Available for LaTeX (offline or on overleaf.com) and MS Word
  – LaTeX is recommended, but not enforced

• Final report has to be sent as a single PDF
Templates

- **Latex:**
  http://www.acm.org/publications/submissions/latex_style

- **MS Word:**
  http://www.acm.org/publications/word_style/word-style-toc/

- **Overleaf:**
  https://www.overleaf.com/latex/templates/association-for-computing-machinery-acm-large-1-column-format-template/fsyrjmfzcwyy#.WibR9bQ-eqA
Project Report Format

• 1. Introduction (1 page)
• 2. Motivation and Background (1-2 pages)
• 3. Design (2-3 pages)
• 4. System Development (6-10 pages)
  • 4.1. Architecture
  • 4.2. Technology Used
    – 4.3. Features
• 6. Testing and Evaluation (1-2 pages)
• 7. Collaboration (2 pages)
  – Structure of the team
  – Overall Collaboration across 118/218
  – Problems/issues and how they have been solved
• 8. Conclusion and Future Work (1 page)
Project Report - Introduction

• Introduce the general idea of the project and guide the reader through the rest of the paper
  • In section 2 we will…
  • In section 3 we will…
  •
Project Report - Motivation and Background

• What are motivations for this work?
  • The people problem: the benefits that are desired in the world at large; for example some issue of quality of life, such as saved time or increased safety.
  • The technical problem: why doesn't the people problem have a trivial solution?

• What are the previous solutions and why are they inadequate?
  • Use references to previous work, both in research, design, or also commercially available products
Project Report - Design

- Explain your design idea
  - describe your prototypes
  - include any sketch or wireframes

- Report on how the idea evolved over time
  - Add a timeline
  - present a final design that you decide to implement
Project Report - System Development

• Architecture: explain the general idea of the system such as client/server, inputs, outputs, sensors, information flow.
• Add at least one image

• Technology used: describe what devices, and APIs did you use and what other services, software, sensors, or data sources you have been integrating
Project Report - System Development

• Features: describe the features that your system offers and how they have been implemented.
• Add at least one image per feature, but do not make them too big.
Project Report - Testing and Evaluation

• Describe any test you did and how did the system behave

• Describe how well does the system respond to the general idea and motivation described at the beginning of the report

• If you have any number or statistics on the testing, describe them and add them to this section
Project Report - Collaboration

• Describe the collaboration, division of labor and the different task that 118 and 218 team member undertook
  • Describe the team structure
  • List specifically what each member of the team contributed to
  • Describe what part of the report every team member contributed to and in what way.

• Discuss the collaboration/cooperation across 118/218
  • organizational tools/rules procedures you use
  • possible issues and problems and how you overcame them
Project Report - Conclusion and Future Work

• Conclude by summarizing the work you have been doing and reflecting on the applicability of the system you developed

• Think about the future development (not necessary by you) of the system: where will it go? how will it be used? what should be added/changed?
LateX

- Windows: Use TeXnicCenter + MiKTeX
- Mac: Use TeXShop + MacTeX
- Web: Use Overleaf

- Handle Bibliographies with BibTeX

- It allows you to focus on content, not on “fixing the issues of Word”

- Nice way to produce beautiful documents
Overleaf

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http://overleaf.com
Bibliography

- Use Zotero to handle bibliographies

https://www.zotero.org/
# Project Report Grading

(subject to change)

- Grading Rubric


<table>
<thead>
<tr>
<th>Qualities &amp; Criteria</th>
<th>Poor (0-60)</th>
<th>Good (60-90)</th>
<th>Excellent (90-100)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format/Layout</strong></td>
<td>Follows poorly the requirements related to format and layout.</td>
<td>Follows, for the most part, all the requirements related to format and layout. Some requirements are not followed.</td>
<td>Closely follows all the requirements related to format and layout.</td>
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<tr>
<td></td>
<td>(Weight 15%)</td>
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<tr>
<td><strong>Content/Information</strong></td>
<td>The essay is not objective and addresses poorly the issues referred in the proposed topic. The provided information is not necessary or not sufficient to discuss these issues.</td>
<td>The essay is objective and for the most part addresses with an in depth analysis most of the issues referred in the proposed topic. The provided information is, for the most part, necessary and sufficient to discuss these issues.</td>
<td>The essay is objective and addresses with an in depth analysis all the issues referred in the proposed topic. The provided information is necessary and sufficient to discuss these issues.</td>
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<tr>
<td><strong>Quality of Writing</strong></td>
<td>The essay is not well written, and contains many spelling errors, and/or grammar errors and/or use of English errors. The essay is badly organized, lacks clarity and/or does not present ideas in a coherent way.</td>
<td>The essay is well written for the most part, without spelling, grammar or use of English errors. The essay is for the most part well organized, clear and presents ideas in a coherent way.</td>
<td>The essay is well written from start to finish, without spelling, grammar or use of English errors. The essay is well organized, clear and presents ideas in a coherent way.</td>
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<tr>
<td><strong>References and use of references</strong></td>
<td>Most of the references used are not important, and/or are not of good/scholarly quality. There is not a minimum of 4 scholarly resources, and/or they are not used effectively in the essay. References are not effectively used, and/or correctly cited and/or correctly listed in the reference list according to APA style.</td>
<td>Most of the references used are important, and are of good/scholarly quality. There is a minimum of 4 scholarly resources that are for the most part used effectively in the essay. Most of the references are effectively used, correctly cited and correctly listed in the reference list according to APA style.</td>
<td>All the references used are important, and are of good/scholarly quality. There is a minimum of 4 scholarly resources that are used effectively in the essay. All the references are effectively used, correctly cited and correctly listed in the reference list according to APA style.</td>
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Deadline

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Questions?
THANKS