CSE 403
Software Engineering
Spring 2023

#2: The Project
Logistics #1

nigini 😞  8:43 AM

How to respond in a thread?
Logistics #1.1

Are you NOT on Slack or Canvas???

cse403-staff @ cs
Current highlights!

Pinned by you

nigini 😊 4:53 PM

Today in class, I proposed the reading of the ACM/IEEE code of ethics for Software Engineers: https://ethics.acm.org/code-of-ethics/software-engineering-code/

Thanks for those who started conversations there!
Today

- Project Ideation
- Project Overview
- Next Steps
### Ideation

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<tr>
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Logistics #2

Canvas → People → Groups → Project Ideation Teams

- IF you already got in contact with your ideation partner
  ○ Make sure you're assigned to that partner on Canvas
- IF you could not reach out your partner
  ○ Open Slack and PM them now
- IF you do not hear back from them by the end of the day
  ○ Send a message to the #team-search channel!
- IF any deviation from the above
  ○ PM me on Slack
## Ideation

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Questions!? Comments!?
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**Ideation → Proposals**
Ideation → Proposals

**WEEK 1**
- 03/27  L: Intro  [SLIDES]  [READ]
- 03/28  T: Peers meetup
- 03/29  L: Projects  [Project Proposal (PP)]
- 03/30  P: Proposals
- 03/31  L: Joel-Test

**WEEK 2**
- 04/03  L: Dev. Cycle  [DUE: PP_1.1!!!]
- 04/04  T: Proposals  [DUE: PP_1.2!!!]
Ideation → Proposals

Details: [https://nigini.github.io/SWEng/project/01_project_proposal.html](https://nigini.github.io/SWEng/project/01_project_proposal.html)

1. Write a 1-2 page proposal document (PDF)
2. Record a 2-3 minute slideshow presentation
3. Submit your proposal on Canvas
Ideation → Proposals

Details: https://nigini.github.io/SWEng/project/01_project_proposal.html

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DUE!?
Ideation → Proposals

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DUE!? WHY?
Course project example categories

- Productivity Apps
- Data science
- Gaming
- Extensions & Plugins (to open-source software?)
- Software Engineering research (prototypes)
Course project example categories

- Productivity Apps
- Data science
- Gaming
- Extensions & Plugins (to open-source software?)
- Software Engineering research (prototypes)

Apps are not the only thing out there!
Project in one picture: mostly type II fun

The Fun Scale
Not all outdoor fun is created equal

**Type I Fun**
Fun to do
Fun to remember
Want to keep going back for more

**Type II Fun**
Hurts a bit to do
But fun in retrospect
Most fulfilling in the long run

**Type III Fun**
Not fun to do
Not fun in retrospect
...But makes a great story

Sweet spot for teaching
Expectations

- Programming experience and familiarity with one programming language (Java, Python, C++, ...).
- Active participation in discussions.
  - Make sure to use well the time with your Project Managers (AKA TA)
- Teamwork and communication (Slack & GitHub).
- Reflecting on and improving submitted materials.
Today

- Project Ideation
- **Project Overview**
- Next Steps
What is this course about: Reminder
What is this course about: Reminder

Goal: Apply SW Engineering concepts!

(Engineering workflow at Microsoft, Big Code summit 2019)
## Course Deliverables in a Nutshell

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Availability</th>
<th>Due Date</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Proposal</td>
<td>Not available</td>
<td>Apr 3 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Review Project Proposals</td>
<td>Not available</td>
<td>Apr 4 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Project Requirements</td>
<td>Not available</td>
<td>Apr 11 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>GitHub Project Setup</td>
<td>Not available</td>
<td>Apr 18 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Design &amp; Architecture</td>
<td>Not available</td>
<td>Apr 25 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Testing &amp; CI/CD</td>
<td>Not available</td>
<td>May 2 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Alpha Release</td>
<td>Not available</td>
<td>May 9 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Beta Release</td>
<td>Not available</td>
<td>May 16 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Peer-Review</td>
<td>Not available</td>
<td>May 23 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Final Release</td>
<td>Not available</td>
<td>May 30 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>Individual Reflection</td>
<td>Not available</td>
<td>Jun 6 at 11:59pm</td>
<td>10 pts</td>
</tr>
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</table>
Course Deliverables: First chunk!

1. Develop an **exciting product idea** with a team partner.
2. Establish a **solid definition** of your project from which to base a design and implementation.
3. Set up a GitHub **Project home**.
4. Solidify the software **architecture and design** of your product.
Course Deliverables in a Nutshell

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<tbody>
<tr>
<td>[PP1.1]</td>
<td>Project Proposal</td>
<td>Not available until Mar 29 at 1:00pm</td>
<td>Apr 3 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[PP1.2]</td>
<td>Review Project Proposals</td>
<td>Not available until Apr 3 at 11:59pm</td>
<td>Apr 4 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[PR]</td>
<td>Project Requirements</td>
<td>Not available until Apr 5 at 1:00pm</td>
<td>Apr 11 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[GPS]</td>
<td>GitHub Project Setup</td>
<td>Not available until Apr 12 at 1:00pm</td>
<td>Apr 18 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[DnA]</td>
<td>Design &amp; Architecture</td>
<td>Not available until Apr 19 at 1:00pm</td>
<td>Apr 25 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[TCC]</td>
<td>Testing &amp; CI/CD</td>
<td>Not available until Apr 26 at 1:00pm</td>
<td>May 2 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[R1]</td>
<td>Alpha Release</td>
<td>Not available until May 3 at 1:00pm</td>
<td>May 9 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[R2]</td>
<td>Beta Release</td>
<td>Not available until May 10 at 1:00pm</td>
<td>May 16 at 11:59pm</td>
<td>10 pts</td>
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<tr>
<td>[RPR]</td>
<td>Release Peer-Review</td>
<td>Not available until May 17 at 1:00pm</td>
<td>May 23 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[R3]</td>
<td>Final Release</td>
<td>Not available until May 24 at 1:00pm</td>
<td>May 30 at 11:59pm</td>
<td>10 pts</td>
</tr>
<tr>
<td>[IR]</td>
<td>Individual Reflection</td>
<td>Not available until May 31 at 1:00pm</td>
<td>Jun 6 at 11:59pm</td>
<td>10 pts</td>
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Course Deliverables: Second chunk!

1. Flesh out the testing plan and set up **automated testing** and continuous integration (CI) for your project.
2. Implement the **core components**, and demo a first release of your project.
3. Make progress on the implementation of your project and solidify the **documentation for end-users and developers**.
4. **Peer-review** another team's project and provide suggestions for improvements.
5. Finalize your group project and **record a demo**
Expected project load (non-scientific depiction)
Today

- Project Ideation
- Project Overview
- Next Steps
What’s next?

MUST happen by Monday, otherwise, your proposal will not be included on the Tuesday deadline!
What’s next?

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<td>DUE: PP 1.1###</td>
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**WEEK 2**

- **04/03**  L: Dev. Cycle  DUE: **PP_1.1!!!**
- **04/04**  T: Proposals  DUE: **PP_1.2!!!**
What’s next?

**WEEK 1**
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**Project Proposal (PP)**

**WEEK 2**
- **04/03**: L: Dev. Cycle
- **04/04**: T: Proposals

**DUE: PP_1.1!!!**

**DUE: PP_1.2!!!**

Question, please!