

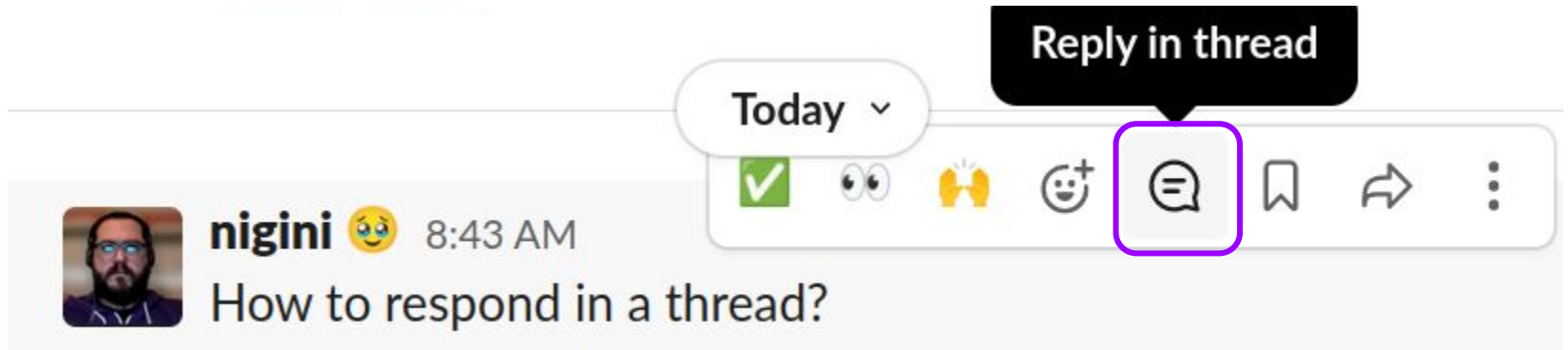
CSE 403

Software Engineering

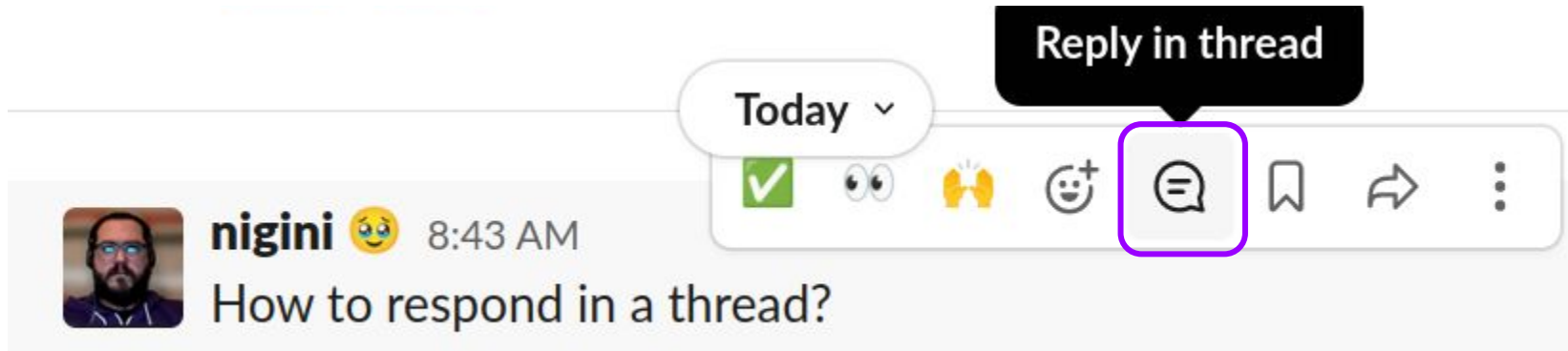
Spring 2023

#2: The Project

Logistics #1




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

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

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!?

Ideation → Proposals

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Ideation → Proposals

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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

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

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DUE!?

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DUE!?
WHY?

Course project example categories

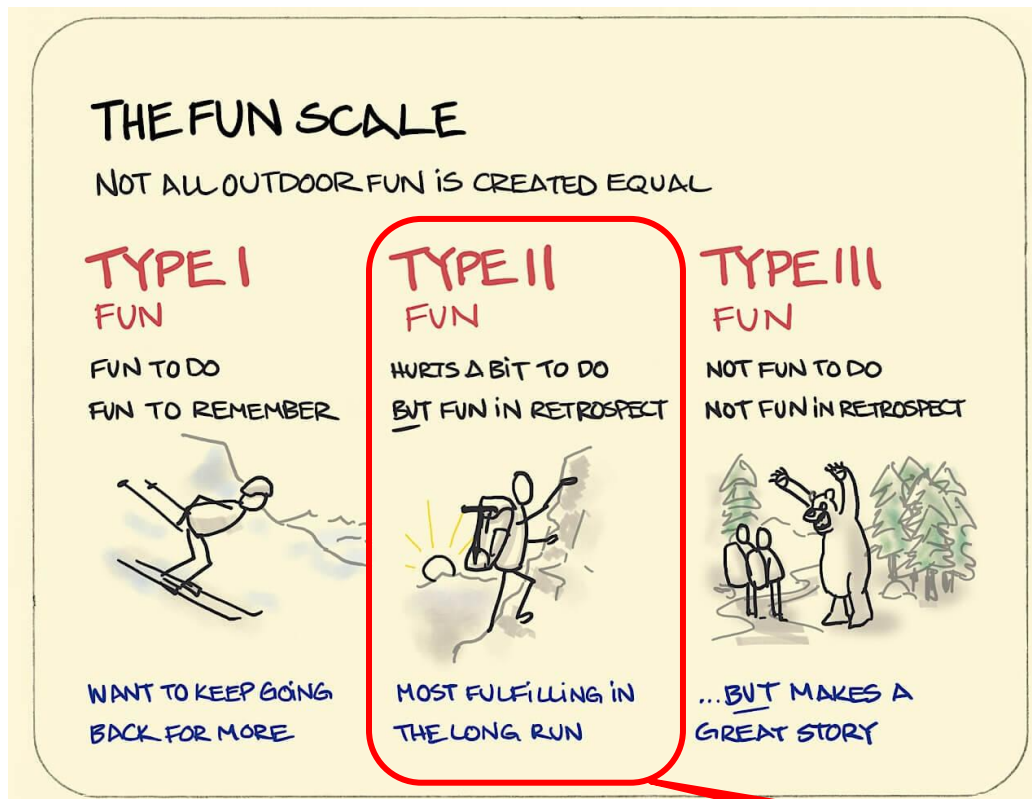
- Productivity Apps
- Data science
- Gaming
- Extensions & Plugins (to open-source software?)
- Software Engineering research (prototypes)

Course project example categories

- Productivity Apps
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Apps are not the only thing out there!

Project in one picture: mostly type II fun



Sweet spot for teaching

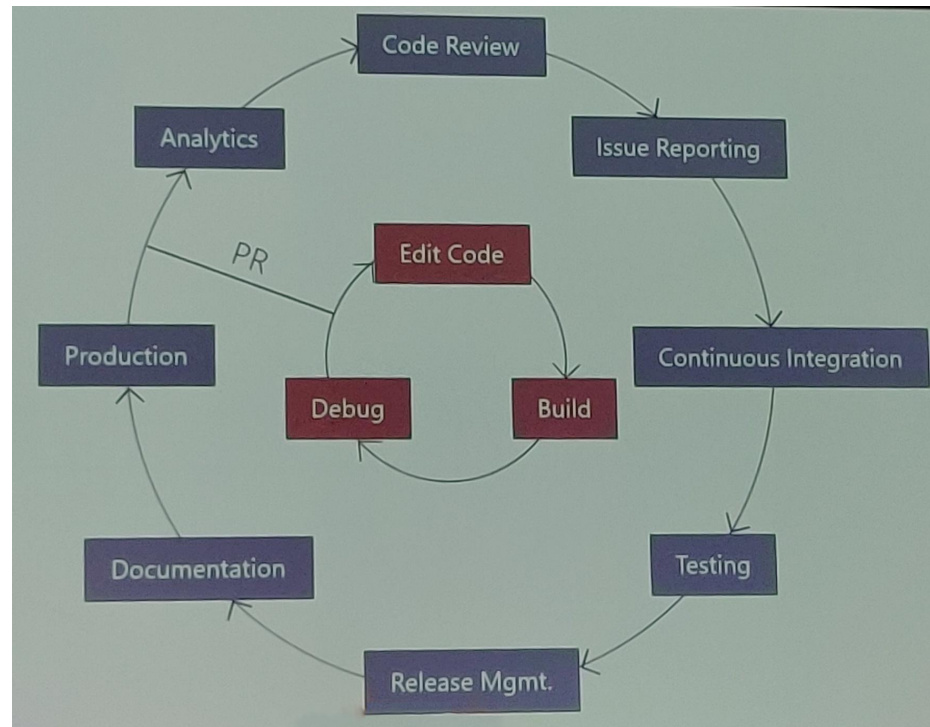
Expectations

- 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

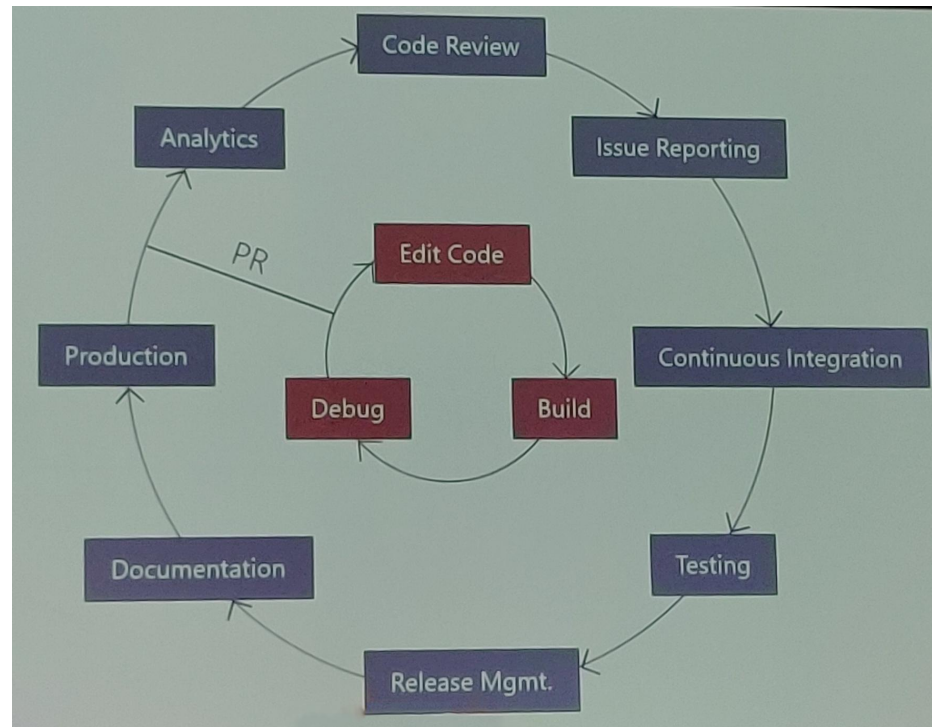
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What is this course about: Reminder




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Goal: Apply SW Engineering concepts!



(Engineering workflow at Microsoft, Big Code summit 2019)

Course Deliverables in a Nutshell


⋮  **[PP1.1] Project Proposal**
Not available until Mar 29 at 1:00pm | Due Apr 3 at 11:59pm | 10 pts

⋮  **[PP1.2] Review Project Proposals**
Not available until Apr 3 at 11:59pm | Due Apr 4 at 11:59pm | 10 pts


⋮  **[PR] Project Requirements**
Not available until Apr 5 at 1:00pm | Due Apr 11 at 11:59pm | 10 pts


⋮  **[GPS] GitHub Project Setup**
Not available until Apr 12 at 1:00pm | Due Apr 18 at 11:59pm | 10 pts


⋮  **[DnA] Design & Architecture**
Not available until Apr 19 at 1:00pm | Due Apr 25 at 11:59pm | 10 pts

⋮  **[TCC] Testing & CI/CD**
Not available until Apr 26 at 1:00pm | Due May 2 at 11:59pm | 10 pts

⋮  **[R1] Alpha Release**
Not available until May 3 at 1:00pm | Due May 9 at 11:59pm | 10 pts

⋮  **[R2] Beta Release**
Not available until May 10 at 1:00pm | Due May 16 at 11:59pm | 10 pts

⋮  **[RPR] Release Peer-Review**
Not available until May 17 at 1:00pm | Due May 23 at 11:59pm | 10 pts

⋮  **[R3] Final Release**
Not available until May 24 at 1:00pm | Due May 30 at 11:59pm | 10 pts

⋮  **[IR] Individual Reflection**
Not available until May 31 at 1:00pm | Due Jun 6 at 11:59pm | 10 pts

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.

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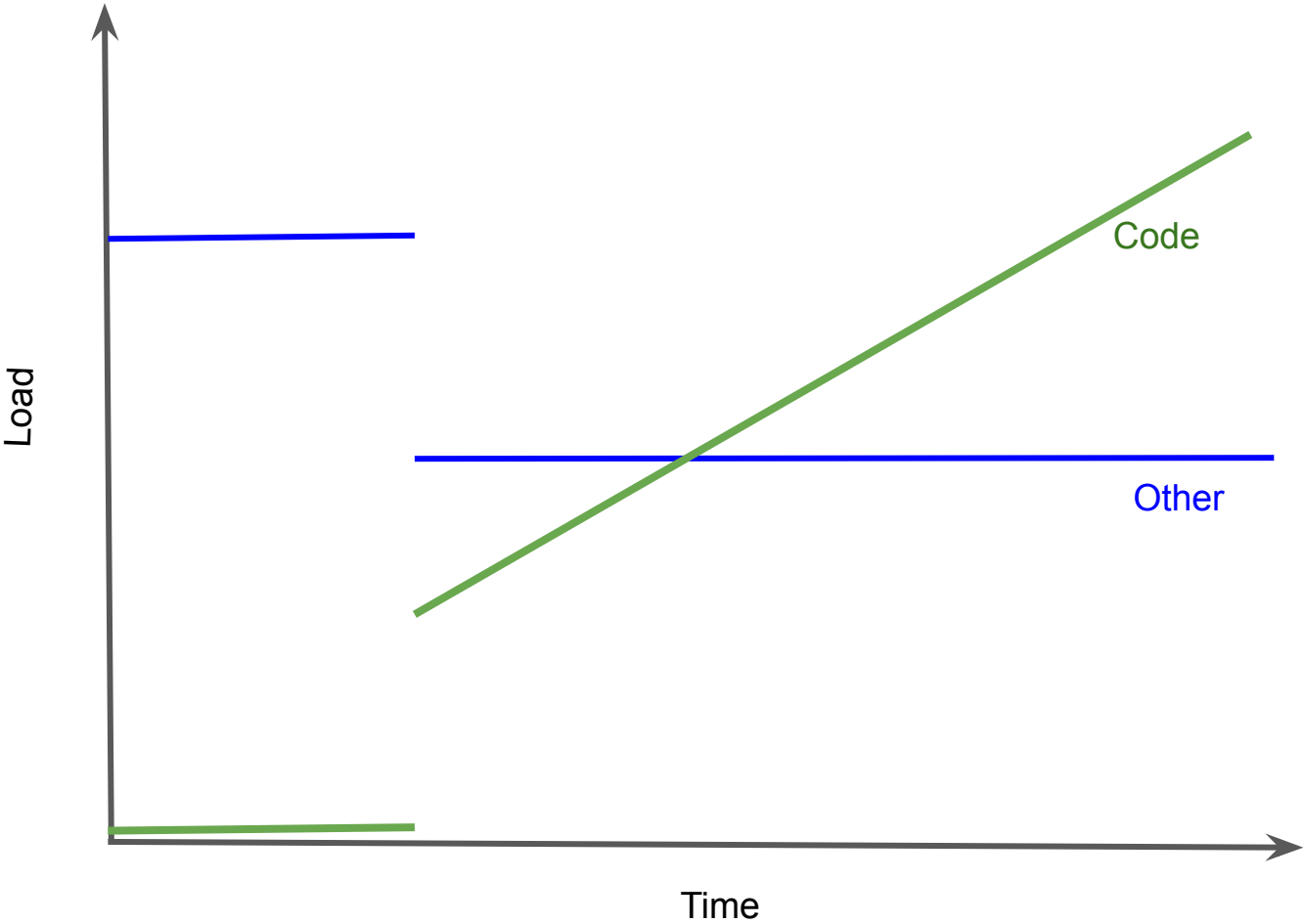
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Course Deliverables: Second chunk!

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)



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DUE: [PP_1.1!!!](#)

04/04 T: Proposals

DUE: [PP_1.2!!!](#)

MUST happen by Monday, otherwise, your proposal will not be included on the Tuesday deadline!

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Question, please!