

CAS 741 (Development of Scientific Computing Software)

Winter 2023

Discussion

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Discussions

- Administrative details
- Questions?
- Discussion

Administrative Details

- Course evaluation
- Reverse engineer MIS from your code
- Check the type for all variables
 - ▶ \mathbb{R} versus \mathbb{R}^n
 - ▶ $\mathbb{R} \rightarrow \mathbb{R}$
- Abstract object versus Abstract Data Type

Administrative Details: Report Deadlines

Final Documentation Week 13 Apr 12

- The written deliverables will be graded based on the repo contents as of 11:59 pm of the due date
- If you need an extension for a **written** doc, please ask
- When ready, assign issues to your primary and secondary reviewers
- GitHub issues due two days after assignment deadlines
- From Drasil Code onward, Drasil projects no longer need to maintain traditional SRS

Administrative Details: Presentations

- Specific schedule depends on final class registration
- Informal presentations with the goal of improving everyone's written deliverables
- Domain experts and secondary reviewers (and others) will ask questions

Presentation Schedule

Presentation Schedule

- 4 presentations each (please check)
- If you will miss a presentation, please trade with someone else
- Implementation presentation could be used to run a code review, or code walkthrough

Questions?

- Final documentation?
- SRS revisions?
- VnV Plan revisions?
- MG and MIS revisions?
- VnV Report?
- Code?
- Drasil projects?

Discussion

- Thoughts on documentation
 - ▶ SRS
 - ▶ VnV Plan
 - ▶ MG
 - ▶ MIS
- Thoughts on technology
 - ▶ Git
 - ▶ GitHub
 - ▶ LaTeX
 - ▶ Your programming language
 - ▶ Drasil projects

Discussion: Course Content

- What ideas from the course will you continue to use?
- Thoughts on
 - ▶ Drasil
 - ▶ Assurance cases
- Other thoughts?

Discussion: Course Structure

- What can be done to improve the course on its next iteration?
- Any need to address the heterogenous mix of knowledge between students?
- Did anyone use the checklists? Enforce with template issues?
- Anything to add to the checklists?