

Software Engineering for Artificial Intelligence



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Tools, Template & First Assignment



Attendance via Zoom



Let's try to make this a great experience for all of us:



Please check your setup before the meeting. We start all calls 10 minutes early, where you can do so.



Please connect before the meeting starts.



Please join using your full name. If you use a nickname or pseudonym, tell the advisors (needed for grading).



We encourage you to use a microphone and a camera: It improves the overall experience in interactive parts.



Please mute your microphone when not speaking

Version Control: Git

- Remote Repositories: <https://github.com>
- Tons of learning material on the web, e.g.,
<https://git-scm.com/docs/gittutorial>
- Git GUIs can ease use and overview
 - Personal recommendation (Linux, MacOS):
<https://www.gitkraken.com/>
 - (Yes, it also supports Windows)

- The screenshot shows a VS Code editor window with a Dockerfile for a Go application. The Dockerfile content is as follows:

```

117 FROM golang:1.16-alpine AS builder
118 WORKDIR /app
119 COPY . .
120 RUN go mod tidy
121 RUN go build -o main
122
123 FROM alpine:latest AS runtime
124 WORKDIR /app
125 COPY --from=builder /app/main .
126
127 ENTRYPOINT ["./main"]
128
129 # Exposed ports
130 EXPOSE 8080
131
132 # Health check
133 HEALTHCHECK --interval=30s --timeout=30s --start-period=5s --retries=3 \
134     CMD wget --no-verbose --tries=1 --timeout=30 http://localhost:8080/health
135
136 # Labels
137 LABEL maintainer="John Doe"
138 LABEL version="1.0.0"
139 LABEL description="A simple Go application"
140
141 # Command to run the application
142 CMD ["./main"]

```

The sidebar on the left shows the project structure, including a 'Dockerfile' file. The sidebar on the right shows the Dockerfile's build history, with a table of build steps and their status.

The build history table is as follows:

Step	Image	Status
1	golang:1.16-alpine	Completed
2	alpine:latest	Completed
3	runtime	Completed
4	runtime	Completed

Template: ACM SIGPLAN Proceedings

- <https://www.acm.org/publications/proceedings-template>
- For all submissions in this seminar
 - Double column layout
 - 9pt font size

Live Collaboration

- Google Docs: Early drafts, only content

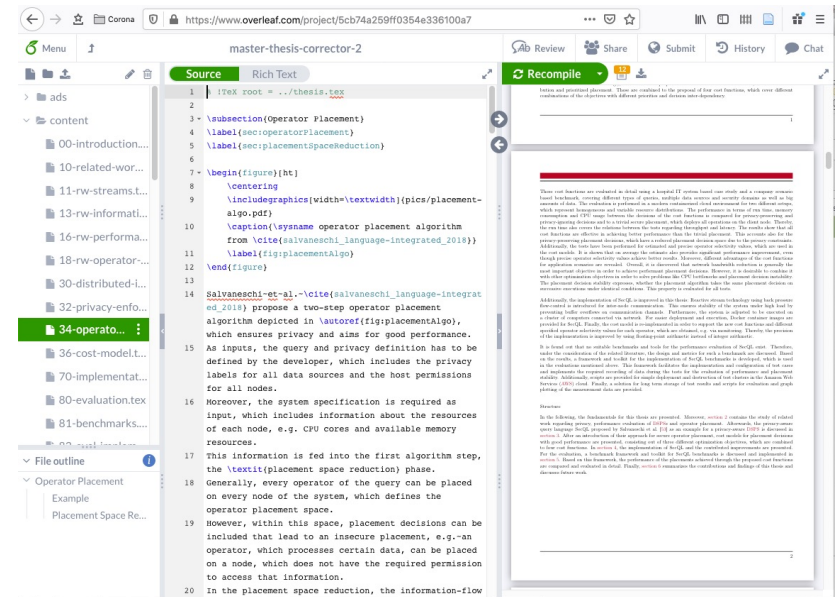
- Overleaf: Full LaTeX environment with Google Docs like experience

- <https://www.overleaf.com>

- TU Darmstadt:

<https://sharelatex01.ca.hrz.tu-darmstadt.de/ldap/login>

- No GIT integration ☹️



Communication: Discord



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First Assignment: Short Summary

- Summarize **individually** one paper within 1 page (+ references)
 - Recommended to read/skim other papers as well
- Course repo: <https://github.com/allprojects/SE4AI-WiSe2021>
 - Send your Github account name to Daniel to get access
 - Clone the repo after getting access
 - Template provided on branch “main”
 - Use it for your summary and push your changes (with a compiled PDF) to branch “summary-[YOUR NAME]-[PAPER TITLE]” based on branch “main”
- Submission deadline: November 9th (before our seminar meeting)

Next Meeting: November 9th

- Summary presentation
 - Everyone presents his/her summary in 5 minutes
 - ~5 slides
- Kickoff of Assignment 2
 - Collaborative SOTA summary

Question & Answers



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