

Weekly Diary

Master thesis course in Computing Science

Pina Kolling

- Week 3 • Introduction and first work on project plan
- Week 4 • Finish project plan, start setting up code on my computer
- Week 5 • Set up code on my computer and first familiarizing with codebase and research on the topic, including finding literature, set up Git and L^AT_EX for master thesis (on work laptop, my laptop and stationary pc), document execution of code
- Week 6 • Implementing, documenting the process and literature research
- Week 7 • Implementing, documenting the process and literature research
- Week 8 • Implementing, documenting the process and literature research and vacation with my grandmother (she turns 90 ♡) so probably reduced work capacity
- Week 9 • Implementing, documenting the process and literature research, evaluating if it is possible to obtain colour-corrected video results using JIT and then specify or readjust the focus
- Week 10 • Implementing, documenting the process and literature research and creating slides for the midterm seminar
- Week 11 • Implementing, documenting the process and literature research, midterm seminar
- Week 12 • Implementing, documenting the process and literature research, search or implement offline colour correction software and other suitable solutions for comparison (if needed)
- Week 13 • Implementing, documenting the process and literature research
- Week 14 • Implementing, documenting the process and literature research
- Week 15 • Writing
- Week 16 • Writing
- Week 17 • Writing
- Week 18 • Writing
- Week 19 • Finalizing, reworking and applying feedback
- Week 20 • Hand in final version of the thesis
- Week 21 • Create Slides for the thesis seminar
- Week 22 • Thesis seminar (defence and opposition)
- Week 23 • Opponent thesis report

Week 3

16.01.24, Tuesday

- First meeting at university

17.01.24, Wednesday

- Setting up file and git for weekly diary
- Writing first mail with topic specification to Vicenç Torra
- Keeping my supervisor at Codemill (Urban Söderberg) in the loop
- Begin with project plan (setting up the file, etc.)

18.01.24, Thursday

- Getting a supervisor from university assigned (Cem Okulmus)
- Continue work on project plan:
 - Introduction
- First research on:
 - Just-In-Time (JIT), WebRTC, h.264, Melt framework
 - Infrastructure model of the system

19.01.24, Friday

- Continue work on project plan:
 - Problem formulation
 - Method
 - Infrastructure model

20.01.24, Saturday

- Continue work on project plan:
 - Evaluation methods
 - Self assessment
- Looking into previous master thesis that was written at Codemill

Week 4

22.01.24, Monday

- Set up git on other computer
- Continue work on project plan:
 - Resources
 - Read again and correct
 - Deciding on a title
- Send projectplan to supervisor at Codemill (Urban Söderberg)
- Send projectplan to supervisor at university (Cem Okulmus)

23.01.24, Tuesday

- First meeting with supervisor at university (Cem Okulmus)
- Rework and additional info on project plan:
 - Change JIT definition
 - Add timeline
 - Add challenges
- Add timeline weekly diary and adapt setup of weekly diary (counting in calendar weeks)

24.01.24, Wednesday

- Prepare laptop to set up code on it

25.01.24, Thursday

- Setting up the code on my laptop at Codemill
(generating ssh key, cloning git repositories, installing node.js and docker, etc)
 - Problem: My RAM was not sufficient and the code could not be executed
 - Solution: Looking for a company laptop to execute the code

26.01.24, Friday

- Setting up the code on the new laptop at Codemill
 - Problem: Space in user name on the device which makes some paths not working
 - Solution: Setting up windows with a new user (to do)
 - Info: The code has not been run on a windows system before

Week 5

29.01.24, Monday

- Being sick

30.01.24, Tuesday

- Being sick

31.01.24, Wednesday

- Being sick
- Setting up new windows user
- Setting up code on new laptop (frontend running but not connected to backend, which seems to be running)

Setting up the code

- Generate ssh key (`ssh-keygen`) and add to GitLab
- Clone git repositories (jit-webrtc and accurate-player-3-core)
- Install node.js and set path variables for npm (and yarn)
- Install and run docker
- Execute jit-webrtc code with command from README with `docker/main/main.sh --threads 16 --port 8080 $VIDEOFILE`
- Execute accurate player code (run `npm install --force`, `npm install yarn` and then `npm start`, resolve errors, fix dependency problems with `npm audit fix --force` (potentially twice))