

# 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 • First research on the topic, including finding literature, set up Git and  $\text{\LaTeX}$  for master thesis (on work laptop, my laptop and stationary pc), document execution of code
- Week 6 • Set up code on my computer and first familiarizing with codebase, finding literature, document execution of code
- 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 problems with backend/docker container)
- Document execution of code:

#### 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` (not working!)
- 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))

### 01.02.24, Thursday

- Being sick ☹
- Installing slack
- Looking into the backend/docker problem
- Setting up WeeklyDiary git and tex file on Codemill-laptop

### 02.02.24, Friday

- Being sick ☹
- Trying to solve the docker/backend problem (still unsolved)
- Setting up git and tex file for master thesis on stationary PC
- Creating title page
- Structure for thesis
- First research and adding of references
- First writing in introduction

### 03.02.24, Saturday

- Being sick ☹
- Trying to solve the docker/backend problem (still unsolved):
  - Inspecting `main.sh` script file
  - Inspecting docker problems regarding windows
  - `docker-run.sh` not found or opened... Changing the path does not seem to help and the file does exist (feedback: no such file or directory)
  - Setting up python

## Week 6

### 05.02.24, Monday

- Run backend/docker (finally!):
  - Make changes in `main.sh` (last line): remove `--device /dev/fuse` and change path to `//opt/jit-webrtc/jit/docker-run.sh`
- Problem: Connectivity issues between browser and docker
- Solution: Installing Linux and not running it under Windows