

# Project Manual

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# Collaboration Agreement for Gruppe 2

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## 1 Introduction

The Collaboration agreement is based on a collection of goals, role responsibilities, procedures and guidelines for interaction within the team. The agreement is developed and complemented by the team members with their own interpretations of what you mean by these and how to achieve the goals.

## 2 Goals

### 2.1 Effect Goals

1. To become acquainted, build trust in each other and increase motivation for the project there will be held regular study sessions, where the members will work as a team and help each other if any problems should arise. There will also be social gatherings to get more comfortable with each other.
2. Respect each other's opinions and suggestions.
3. Finish the individual assigned work, as to not slow down and / or cause problems for others work.

### 2.2 Result goal

The group should be able to hand in all deliveries on schedule. To achieve this, all members will have a clean overview of everyone's work, and the progress of each individual. Members can then see who has done what, and what remains to be done. There is also the option to assign more people to tasks if deemed necessary.

## 3 Roles and responsibilities

- **Project leader**

Krog was elected project leader by acclamation. His responsibilities involve but are not limited to, delegating assignments, keeping the schedule, solving potential conflicts and the overall vision of the project.

- **Organization responsible**

Gluppe has been given the assignment of organising the teams meetings. He will be responsible for leading and documenting the meetings during the project. Considering the groups familiarity with each other, the summons will be quite informal, but still enforced.

- **Documentation responsible**

All group members are responsible for documenting their work, both their work hours and what work they have done on the current task through GitLab. However, Karlsmoen has the responsibility of coordinating all the teams documentation into a cohesive, easily comprehensible document.

- **Head of Design**

The UI/UX design is an important part of the application. Aas has the responsibility of making sure the UI/UX is up to standard, and meets all requirements. While other members will work on the UI/UX as well, everything must be approved by the head of design if it is to be included in the final design.

## 4 Procedures for the teamwork

- **Meetings**

Meetings are to occur at least once a week. The organization of meetings is handled by Gluppe, therefore he summons the group to meetings. The idea is one formal meeting a week, with additional working sessions. This number can be increased if deemed necessary.

- **Notification in case of absence or other incidents**

If a member is late for a meeting or cannot attend, the member must contact the one responsible for organising the meeting. Either contact them on Discord or by phone. The person that is late for the meeting is still allowed to attend, unless it is a repeated problem, which will require more attention to solve.

- **Documents**

The main method for sharing documents is through Google Drive and GitLab. Google Drive will mainly be used for documents such as this. The main report for the project will be written in Latex using Overleaf. GitLab will be the main resource for sharing code and documentation. Both manual documentation of the code, and auto-generated JavaDoc is going to be handled on GitLab.

- **Policy for monitoring tasks**

All tasks should be listed as issues on the GitLab project. The issues will be placed on a Kanban board, and updated according to the progress being made on them. This way all members will have a good overview of how the project is coming along.

- **Submission of teamwork**

To ensure the quality of all members' work there will be a great use of GitLab commit logs to inspect the quality of members' work. This way there will be more than one pair of eyes on anything added to the project. All group members must coordinate with Karlsmoen to ensure proper documentation.

## 5 Interaction

- **Attendance and preparation**

For meetings, lectures and work sessions there will be a specified time to meet. To make room for errors out of members control, the session will start 15 minutes after the agreed upon meeting time. During the 15 minutes between the set meetup time and actual start, it is encouraged for members to prepare themselves. Any follow-up meetings will be decided upon during the meeting, and follow the same structure as a normal meeting.

- **Presence and commitment**

During collective work sessions, it is expected that everyone focuses on actual work, and takes dedicated breaks when needed. If a person decides to take an individual break, the person should not disturb the other still working members, and preferably should leave the working area.

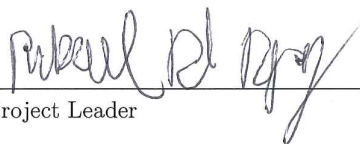
- **How to support each other**

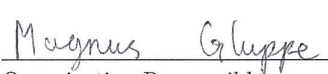
During meetings, there will be a summary of the work that has occurred since the last meeting. Every member then has the opportunity to show off what they have done and receive feedback. This allows for everyone to have a good overview of how the project is coming along, and to help each other if someone is having trouble with their tasks.

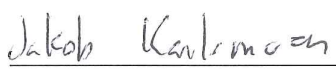
- **Disagreement, breach of contract**


Considering the previous work experience and familiarity of the group, there is not expected any major conflicts. However, if one arises, the involved group members will try to solve it themselves. If this turns out to be hard, the problem will be tackled by the group leader. If this does not help either, there will be brought in a mediator from outside the group, possibly from the school. If the breach of contract is critical enough, the team member will be removed from the project.

## 6 Signatures

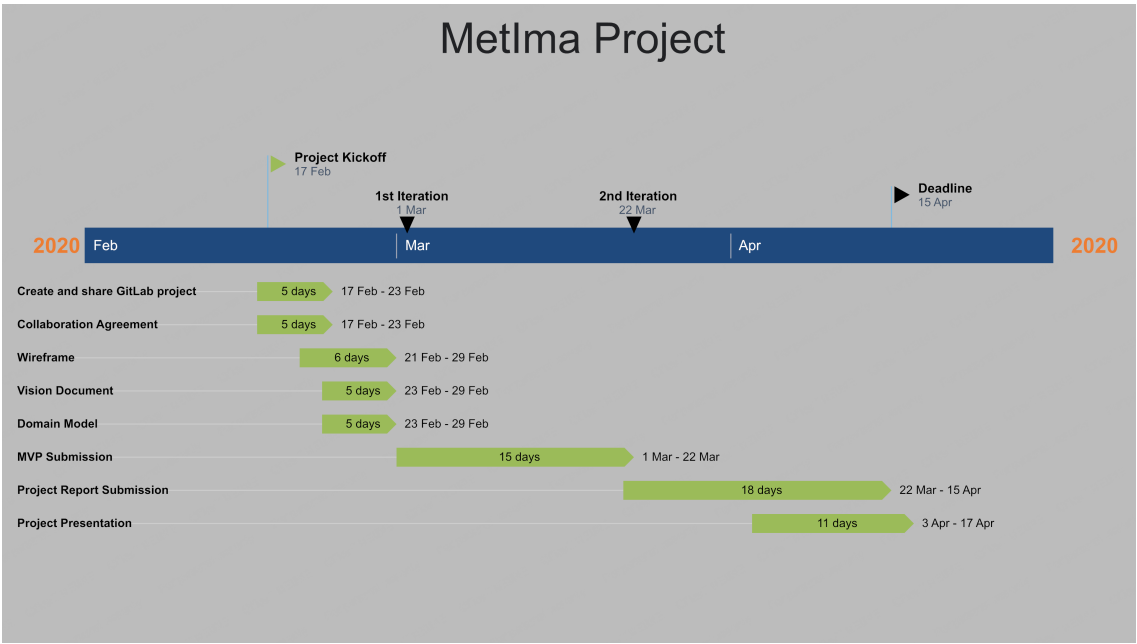
	25-2.2020
Project Leader	Date

	25.2.2020
Organization Responsible	Date

	25/2-2020
Documentation Responsible	Date

	25/2-2020
Head of Design	Date

# Gantt Diagram



# Meeting Summons

Mikael Falkenberg Krog      Magnus Gluppe      Jakob Frantzvåg Karlsmoen  
Mikkel Aas

February - April 2020

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# 1 Meeting summons

## 1.1 Meeting summon: Project Group 2

**28.02.2020, 11:00, Atriet A-bygget NTNU Gjøvik**

Magnus Gluppe is the meeting Chairman and minutes responsible for this meeting.

### Agenda

- Case no. 01/2020: Opening meeting
- Case no. 02/2020: Approval of agenda
- Case no. 03/2020: Eating protocol during meetings
- Case no. 04/2020: Startpoint and endpoint for a work sessions
- Case no. 05/2020: Group versus individual work
- Case no. 06/2020: Briefing everyone on individual work

Please contact me if you are unable to attend the meeting.

## **1.2 Meeting summon: Project Group 2**

### **19.03.2020, 19:30, Online Call**

Mikael is the meeting Chairman and minutes responsible for this meeting

Agenda

- Case no. 01/2020: Opening meeting
- Case no. 02/2020: Approval of agenda
- Case no. 03/2020: Compression?
- Case no. 04/2020: Workings of export
- Case no. 05/2020: Adding folders instead of individual images
- Case no. 06/2020: Consistency in UI
- Case no. 07/2020: Communication

Please contact me if you are unable to attend the meeting.



### **1.3 Meeting summon: Project Group 2 03.04.2020, 12:00, Online Call**

Mikkel is the meeting Chairman and minutes responsible for this meeting

Agenda

- Case no. 01/2020: Opening meeting
- Case no. 02/2020: Approval of agenda
- Case no. 03/2020: Delegate report work
- Case no. 04/2020: Optimization
- Case no. 05/2020: Write JUnit tests
- Case no. 06/2020: The edit image buttons
- Case no. 07/2020: Connect to database

Please contact me if you are unable to attend the meeting.

#### **1.4 Meeting summon: Project Group 2** **22.04.2020, 12:30, Online Call**

Jakob is the meeting Chairman and minutes responsible for this meeting

##### Agenda

- Case no. 01/2020: Opening meeting
- Case no. 02/2020: Approval of agenda
- Case no. 03/2020: What is left to do on the application
- Case no. 04/2020: What is left to do on the report
- Case no. 05/2020: How has the project been?

Please contact me if you are unable to attend the meeting.

## **2 Minute**

### **2.1 Minute from project meeting in Project Group 2**

**Time/location:** 28.02.2020, 11:00, Atriet A-bygget NTNU Gjøvik

**Present:** Mikkel Aas, Magnus Gluppe, Jakob Karlsmoen, Mikael Krog

**Absent:** No one

**Moderator:** Magnus Gluppe

#### **Case no 2/2020**

Approved by acclamation.

#### **Case no 3/2020**

Anyone can eat during the meeting or work sessions, but we should avoid noisy food like chips. At important deadlines, the group can go out to eat.

#### **Case no 4/2020**

Issue undecided, we like the approach of working until we are done with what we started. However, this method can have its disadvantages. Not everyone is productive at the same time, and might wish to end a session early and pick up the work later. If no one else does this, you can feel obligated to stay and produce a sub-par product.

#### **Case no 5/2020**

When we are further along with the project, it will become easier to work individually. The group still wishes to have joint work sessions, even if our tasks do not overlap. This ensures a certain amount of structure for everyone, and we can ask each other for help.

#### **Case no 6/2020**

In this part of the project, all the group members have cooperated on various documents and diagrams. So this point is not very relevant to this stage of the project.

28.02.2020, Magnus Gluppe

## **2.2 Minute from project meeting in Project Group 2**

**Time/location:** 19.03.2020, 19:30, Online Call

**Present:** Mikkel Aas, Magnus Gluppe, Jakob Karlsmoen, Mikael Krog

**Absent:** No one

**Moderator:** Mikael Krog

### **Case no 2/2020**

Approved by acclamation.

### **Case no 3/2020**

We have decided that compression is not to be prioritized, and instead try to find other solutions. We may come back to compression later.

### **Case no 4/2020**

The export function is currently under development.

### **Case no 5/2020**

We have some ideas to import multiple images is imported at once. We will begin testing this later.

### **Case no 6/2020**

It will be taken into consideration.

### **Case no 7/2020**

We will keep on using discord as communication, it is working well.

19.03.2020, Mikael Krog

## **2.3 Minute from project meeting in Project Group 2**

**Time/location:** 03.04.2020, 12:00, Online Call

**Present:** Mikkel Aas, Magnus Gluppe, Jakob Karlsmoen, Mikael Krog

**Absent:** No one

**Moderator:** Mikkel Aas

### **Case no 2/2020**

Approved by acclamation.

### **Case no 3/2020**

We have chosen to write different segments that will be delegated evenly to the group members.

### **Case no 4/2020**

The program is using too much RAM. There is still a few things we can try to fix this. We can try to Make scenes static. This ensures that one scene has one controller and not several controllers, which might save RAM.

### **Case no 5/2020**

We have to write JUnit tests to ensure that every section of the application meets its design and behaves as intended.

### **Case no 6/2020**

We should combine the two edit buttons into one. This makes the GUI more user friendly and removes clutter.

### **Case no 7/2020**

We have to move our database from an embedded database within the application to a remote database on the NTNU servers. This will be done with simple configurations in our persistence.xml document.

03.04.2020, Mikkel Aas

## **2.4 Minute from project meeting in Project Group 2**

**Time/location:** 22.05.2020, 12:30, Online Call

**Present:** Mikkel Aas, Magnus Gluppe, Jakob Karlsmoen, Mikael Krog

**Absent:** No one

**Moderator:** Jakob

### **Case no 2/2020**

Approved by acclamation.

### **Case no 3/2020**

Need small cosmetic fixes. There are also other small changes that could be made, but are not important so they are not a priority. Compile to jar? Make sure JavaDoc is good and consistent.

### **Case no 4/2020**

Need to flesh out "how the assignment was solved" and "overview". "Further work" needs a lot of work. Some parts need a little padding. Conclusion needs to be written.

### **Case no 5/2020**

Probably should have started writing the report earlier. There was a lack of interest in the subject matter, therefore we did not give it the attention it deserves and could have been better at following it more closely during the project.

22.04.2020, Jakob Karlsmoen

## Timetable

Per Session (min)					
Date	Mikkel	Magnus	Jakob	Mikael	Notes
February 20, 2020	90	90	90	90	Created GitLab project, Google Drive sharing documents, brainstorming
February 21, 2020	240	240	240	240	Started work on wireframe, prepared GitLab project for development, wrote collaboration agreement
February 25, 2020	180	0	0	0	Learned the fundamentals of javaFX and java scene builder.
February 25, 2020	180	180	180	180	First draft for gui, signed and uploaded collaboration agreement, started work on vision document.
February 26, 2020	120	0	180	180	Worked on vision document, got the first revision of the vision document done, did usability testing on wireframe, made gantt diagram
February 27, 2020	180	180	180	180	Finished vision document second revision and made the domain model draft
February 28, 2020	180	180	180	180	Meeting, finished usability test report, finished domain model
March 10, 2020	360	360	360	360	Started working on the MVP.
March 12, 2020	360	360	360	360	Added a lot of functionality on the application. Got a basic gallery working, got "add image" working, got stage switching working and prototyped a compression system for thumbnails
March 16, 2020	120	120	120	120	Imageview now works with basic metadata output, search now works, fixed some small bugs and refactored a lot of code
March 19, 2020	200	200	220	200	Performed user testing, finalized documents for MVP hand-in, started work on finalizing code for hand-in
March 20, 2020	0	0	0	120	Worked on the MVP.
March 22, 2020	240	240	240	240	Finalized the MVP and handed it in.
March 24, 2020	300	300	300	300	Started polishing with CSS, fixed export to properly scale and resize images, restructured add image pages for more user-friendly functionality, gallery now is a proper grid and wraps with windows size
March 30, 2020	360	360	360	360	Started on the preliminary work on adding databases
March 31, 2020	0	0	160	160	Reworked add image page, did a little work on switching to database
April 2, 2020	300	300	300	120	Worked on the database and the GUI
April 9, 2020	120	120	15	120	Started working on the main report
April 10, 2020	120	0	0	0	Worked on the metadata search function, and made a lot of style changes.

April 16, 2020	240	240	330	240	Worked on main report
April 17, 2020	240	240	240	300	Continued work on main report, did bugfixes on applicaiton
April 21, 2020	240	240	300	300	More work on main report, design fixes and bug fixes.
April 23, 2020	180	120	180	120	Design changes and bug fixes on application. Also continued working on the main report
April 26, 2020	120	120	0	120	Worked on the main report.
April 27, 2020	240	240	240	240	More work on main report. Packaged application to jar. Worked on GitLab WIKI
April 28, 2020	180	180	180	180	Finished up the project and prepared for hand-in

#### Total (h)

Mikkel	Magnus	Jakob	Mikael
84.8	76.8	84.3	83.5

#### Total (h)

