

## 17VT - 1DV508 - Project Course in Computer Science

# Implementation-plan

### **Group 7**

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# 1.Introduction

This document describes the iterative implementation of the project. The project consists of 6 iterations, a week for each one. Every week will focus on selected requirements and use-cases. Along with the implementations, JUnit tests and test-cases will be created. Below a list of Use-Cases and requirements in focus for the iteration is listed along with start date and deadline for the iteration. Which should result in a fully functioning Timeline manager project.

Link to GitHub repository: <https://github.com/Group7-1DV508/1DV508-group7>

## 1.1.Use-cases and Requirements

Iteration	Use-cases	Requirements	Start/End Date
#1	1. Add Timeline 2. Add Event	T1 , T1.1 , T1.2 E1 , E2 A1 , A1.1 , A2 D1 , D1.1 N1 , N1.2	170413 / 170419
#2	1. Delete Timeline 2. Delete Event 3. Edit Event	E3 , E3.1 G1 , (A1.2) M1 , M2 , M3	170420 / 170427
#3	1. Save Timeline(s) 2. Load Timeline(s)	T2 , G2 , G3	170428 / 170504
#4	1. Open Help Window 2. Edit Timeline 3. Personalize Timeline	H1 , M4 , M5	170505 / 170511

## 2. Iteration #2

In the first iteration the Use-Cases Add Timeline and Add Event is being implemented.

Implementation	Developer	Requirement
EventView, EventControl	Aya, Caroline	D1 D1.1 N1 N1.2 E1
Event Application	Caroline	E1
ApplicationView, ApplicationControl	Amelie	T1 T1.1 T1.2 E2
TimelineView, TimelineControl	Indre, Stefanos	A1 A1.1 A2
Timeline	Indre	A1 A1.1 A2
Test Plan Test-Cases JUnit Tests	Johan, pranav	-

### 3. Post-iteration reflection

Considering it was the first iteration, we encountered upon a few problems. Firstly the communication wasn't that good, which resulted in errors since classes were implemented wrongly and some of us worked on the same parts. Also all of us weren't a hundred percent sure on how every class and method interact with each other in our system.

Therefore our work took longer than expected, but the results looked good.

### 4. Backlog

In the first iteration, we did not have time to implement the show Timeline and Event requirements because of communication errors.

## 5. Iteration #2

In the second iteration the Use-Cases Edit Event and Delete Event is being implemented.

Implementation	Developer	Requirement
Implement Timeline UI	Stefan	-
Update EventController with onEditEvent and onEditEventDuration	Pranav	-
Implement Event UI Update EventView with "Edit event" button, empty delete button, and edit event window.	Aya,Amelie and Johan	M2 , M3
Tests and test case for edit event	Indre	-
Update implementation-plan	Amelie	-
Implement main UI	Caroline	-

## 6. Post-iteration reflection

The second iteration went way more smooth and productive. Seeing that week one didn't go as planned, we decided that some bigger changes were due. Instead of dividing up the work and then have a meeting where we were trying to fit the parts together, we decided upon smaller iterations and more deadline meetings. In those meetings we looked at each others code,commented upon it, gave improvement suggestions and asked questions. Also we did some more pair programming which worked much better. However, the last iteration meant that we ended up with some backlog.

## 7. Backlog

This week we fixed last weeks backlog ( Show Timeline and the Event requirements) which unfortunately postponed this weeks Use-cases Delete Event and Delete Timeline. These will be fixed next week.

## 8.Iteration #3

In the third iteration the Use-Cases Delete Timeline, Save Timeline and Load Timeline is being implemented.

Implementation	Developer	Requirement
Update implementation plan. Changelog document	Amelie	-
Save Timeline Load Timeline	Pranav	T2 , G2 , G3
Test-cases, JUnit tests Test-plan	Caroline	-
Add EventWindow UI EditEventWindow UI Timeline UI	Stefan	-
implement DatePicker Update EditEvent	Johan, Amelie, Aya	
Delete Event Delete Timeline	Indre	G1 , (A1.2) E3 , E3.1

## 9. Post-iteration reflection

The third iteration was a good iteration-week for our group. All Use-cases where implemented but there are some minor changes to be done. The Timeline Manager is starting to look great and it was a productive week.

Still we had some communication errors we need to work on , since those take up a lot of time. This week we had more virtual meetings than in person meetings but it still

worked out good. More people started to participate, ask questions and review the code which works great. Then the feedback was discussed and then implemented.

## 10. Backlog

This week the DatePicker both for add Event and edit event need some work, because it still got some errors. Particularly the DatePicker for edit event.

## 11. Iteration #4

Implementation	Developer	Requirement
Update implementation plan. Update Changelog document	Amelie	-
Save/load handle exception	Pranav	
Zooming into months and days, and zooming out on timeline function	Caroline	
Update Test-cases, JUnit tests	Stefan	
Disable Save timeline button Check add event years	Johan, Amelie	
Eventview class - clear event info after adding, check start date after timeline add date, event no duration ⇔ event with duration,	Indre	
Implements DatePicker for add timeline	Aya	-

## 12. Post-iteration reflection

This week we managed to implement a new right click "zoom" function for the Timeline UI which makes the timeline manager way more user-friendly, considering now you get an overview over all the years and their events. The Main bug fixes were solved and now the DatePicker works great for both Add Timeline and Edit Events. Also since the feedback at the weekly meeting was that not only a function for years was desired, but also a function for month when adding a new Timeline, the group did those changes. The team did a good job, and all of the Iteration#3 backlog was fixed.

This week we wanted to get started on our own requirements, unfortunately we didn't manage to implement any new Use-cases since we had to prioritize the obligatory requirements and their bugs fixes.

The group still is working great together and everybody did their part, but this Iteration we had a lot more members not showing up for the meetings, which got addressed and resolved. We hope that it will be better for Iteration #5.

## 13. Backlog

The backlog for this week is rather large since no new Use-cases were implemented. In iteration #5 the use-cases Open Help Window (A empty Help Button and Window is already up and running), Edit Timeline and Personalize Timeline will be implemented.

Additionally we need to add a file path to the timeline object. Add a checkbox to delete file where timeline is stored together with timeline in program in delete timeline function is also not done yet.



## 14. Iteration #5

Implementation	Developer	Requirement
Update implementation plan. Update Changelog document User- manual document	Amelie	-
Delete File and delete button	Pranav	-
Buggfix, clean up code	Caroline, Indre	-
Update Test-cases, JUnit tests	Aya	-
Help button	Johan, Amelie	-
UI ( Icons on the buttons)	Stefan	
Scrollable Add event button	Johan	-
Update the class Diagram	Caroline	-

## 15. Post-iteration reflection

This iteration we had to focus on making the previous implemented requirements better and cleaner. We noticed that some of the functions had errors which we did not see before. For example we had some issues adding a event BC. And those had to be fixed. The code in general got a clean up and we removed unused methods, which made it way more easy to read.

This week we are very happy that our "Delete File" button now works really well. Some main ui changes were made .For example " Add Timeline" button and the other main buttons now have a different looks. We implemented a help button but a new help guide has to be fixed before it is done.

This week we only had virtual meetings, but both went very smooth and they were quite effective.

## 16. Backlog

Main backlog would be the UI. Most of the functions work great (just some minor fixes) but the Timeline manager still doesn't look professional enough. For the next iteration we will focus on the main looks of the program. Also the help button isn't done, and need some work to it.

## 17. Iteration #6

Implementation	Developer	Requirement
Update implementation plan. Update Changelog document User- manual document	Amelie	-
Use-cases, use-case specifications, Activity diagrams	Pranav	-
Buggfix, clean up code New UI	Caroline, Indre	-
Use-cases, use-case specifications, Activity diagrams	Aya	-
Help button	Johan, Amelie	-
Activity diagrams, Use-cases, Use-case specifications	Stefan	

## 18. Post-iteration reflection

Since this was the last iteration, we focused on fixing buggs and cleaned up the code. Also we finished the Help button which now got a user manual built in it. The main work was to give our Timeline a new look. So the past week we implemented new icons and new colors, which makes the program a bit more professional looking. This iteration was a bit stressful because we had to hurry to make everything finish on time. But the hole team came together and worked really hard. We are quite pleased with the final outcome. Of course there are plenty of improvements that could be made if we had a bit more time.

## 19. Backlog

Some further improvements could be to implement the use-cases Edit Timeline and personalize the timeline. Also it would be nice to have an Event collision notification when events are in the same duration. A nice feature to have, would be to share the timeline as well.