

Thesis planning : Practically usable IBE for Online Social Networks

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Thesis Outline

This document describes the complete thesis planning of Stijn Meul. The goal of this thesis is to implement *Identity Based Encryption (IBE)* [?] and to use it on online social networks. First some references will be read, then an architecture will be proposed and analysed and finally this architecture will be implemented in Scramble. Scramble [?] is a Firefox exetension that currently allows public key encryption based on OpenPGP [?].

Time Schedule

As I already did an internship during the summer holidays, only 54 ECTS credits need to be taken during the academic year. Most of the obligatory courses for the Master of Multimedia and Embedded Systems take place in the first semester. This translates into 6 available ECTS credits for this thesis during the first semester and the further 18 ECTS credits during the second semester.

One ECTS credit represents 25 to 30 hours of work. This allows us to calculate the amount of time spent on the thesis on a semesterly, weekly and a daily basis as shown in Figure 1.

	ECTS	Total hours	Hours/week	Available weeks	Hours/day
First Semester	6	180	14	13	2h45
Second Semester (without JobFair)	18	540	17	31	6h20
Second Semester (with JobFair)	18	540	15	36	7h10

Figure 1: Estimated working hours

The Hours/day column gives a practical estimation for the feasibility of this thesis planning. It is calculated based on the working days of the week, so that the weekend is still available. The last row is added because I have committed myself to be a volunteer for VTK Corporate Relations. On March 12, 2014 I will organise VTKs annual Job Fair for the second time. The Job Fair attracts more than 500 engineering students who are looking for a future employer. As more than 80 companies are represented, I will need to focus on the organisation of the Job Fair during the 2 weeks before the event. These two weeks before the Job Fair are compensated during the exam period at the beginning of June as I will only have 2 exams then.

A Gantt chart can be found in Figure 2. Blue diamonds represent internal deadlines with Filipe, my thesis supervisor. Orange diamonds represent deadlines imposed by the faculty of engineering. Black hatched bars represent time spent on my thesis. Gray hatched bars represent time periods during which I will not be able to work on my thesis.

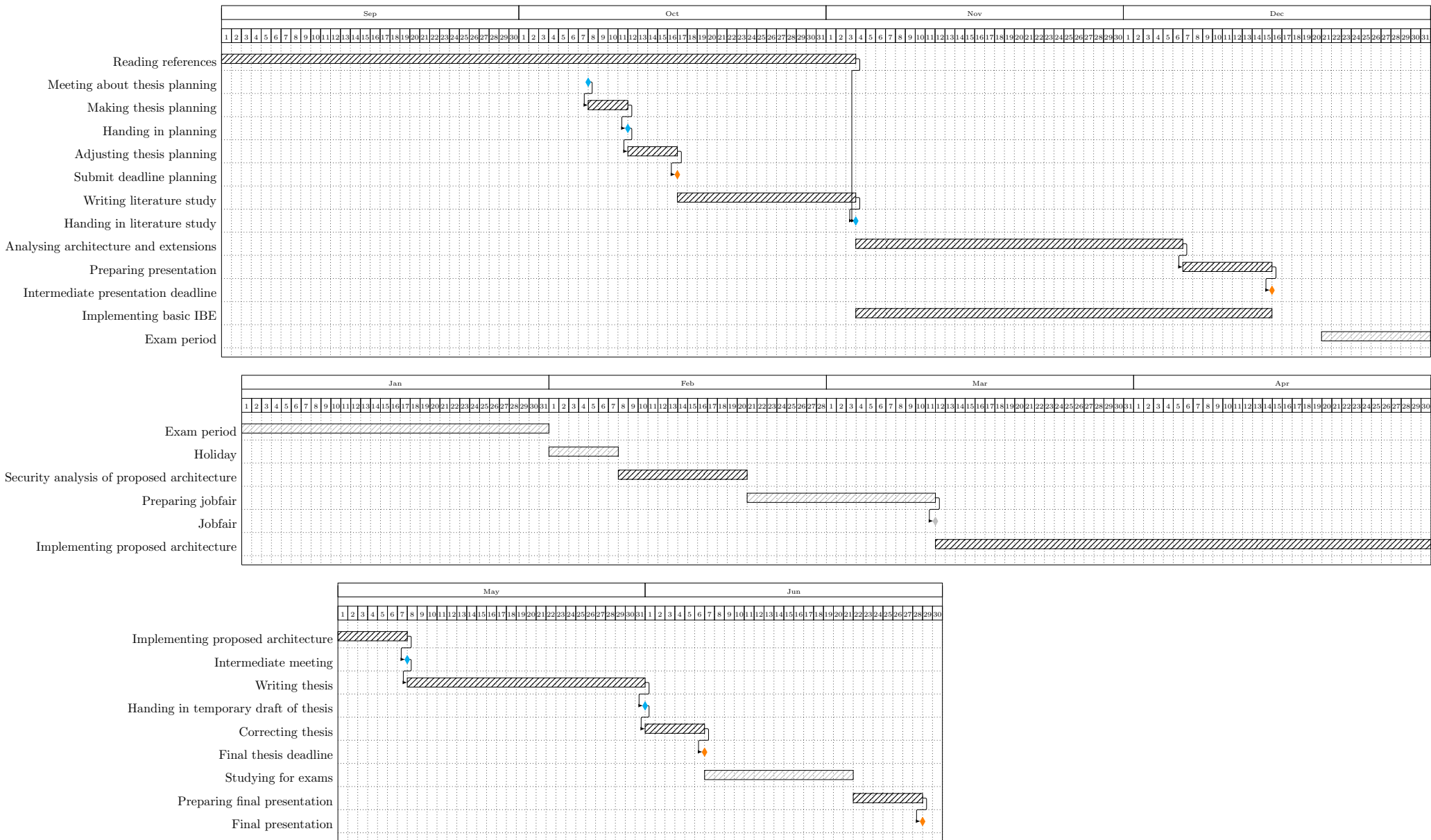


Figure 2: Gantt chart of thesis planning