

STORY



Welcome

TDT4290 - Group 10

Scalpel
A clean cut in surgical planning



Our Agenda



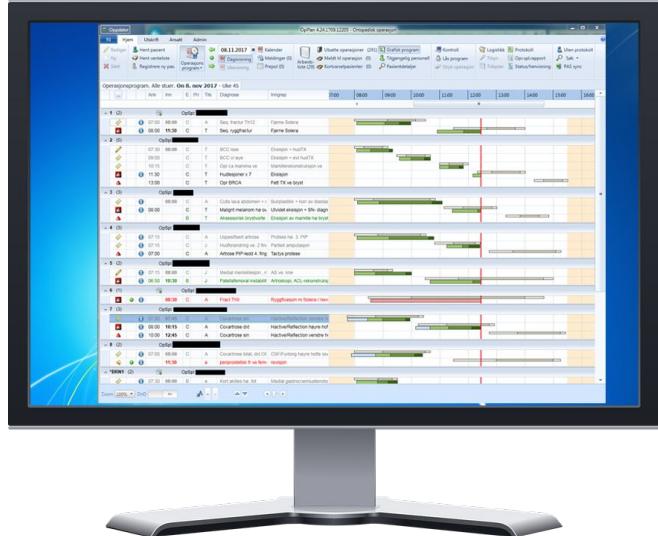
Introduction

The customer



Introduction

The challenge



Scalpel
A clean cut in surgical planning



Introduction

The team



Eivind Grimstad
Code Keeper



Jenny Stange Johansen
Scrum Master



Felix Ohlsen
Lead Designer



Fredrik Vatsendvik
Lead Architect



Nina Røsdal Graneggen
Project Leader



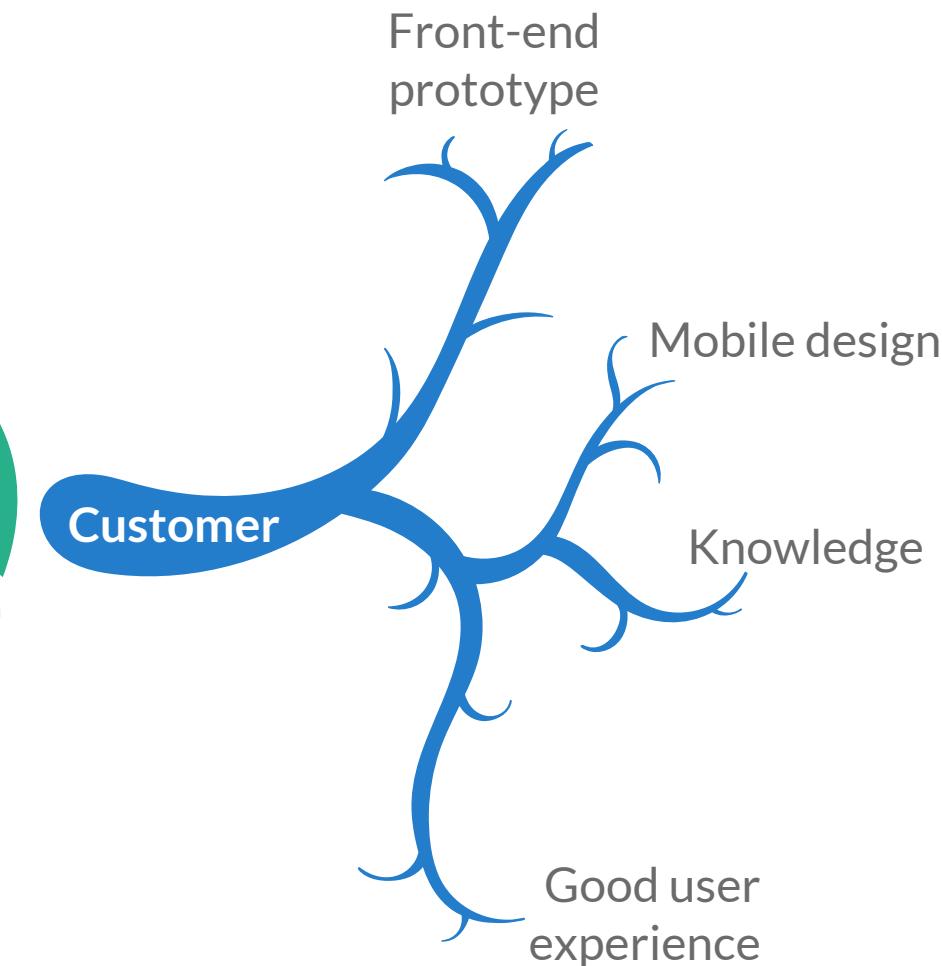
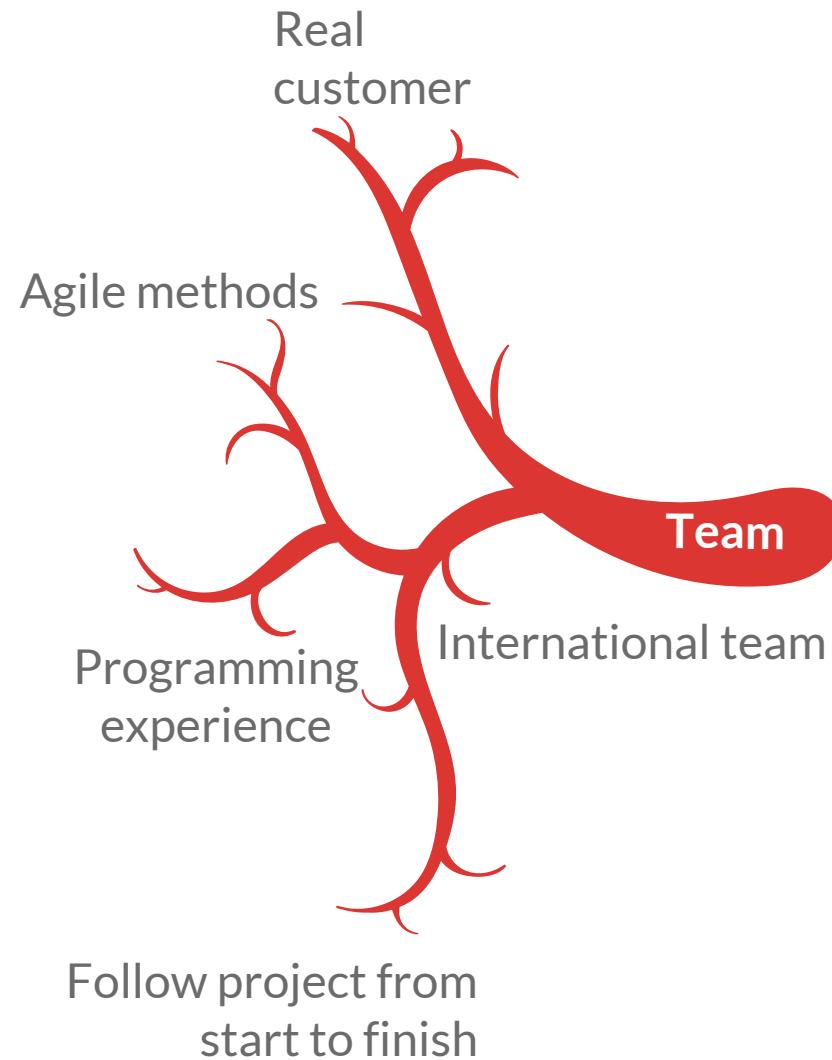
Magnus Austlid Grov
Report Manager



Svenn-Helge Vatne
Human Relations

Introduction

The goals



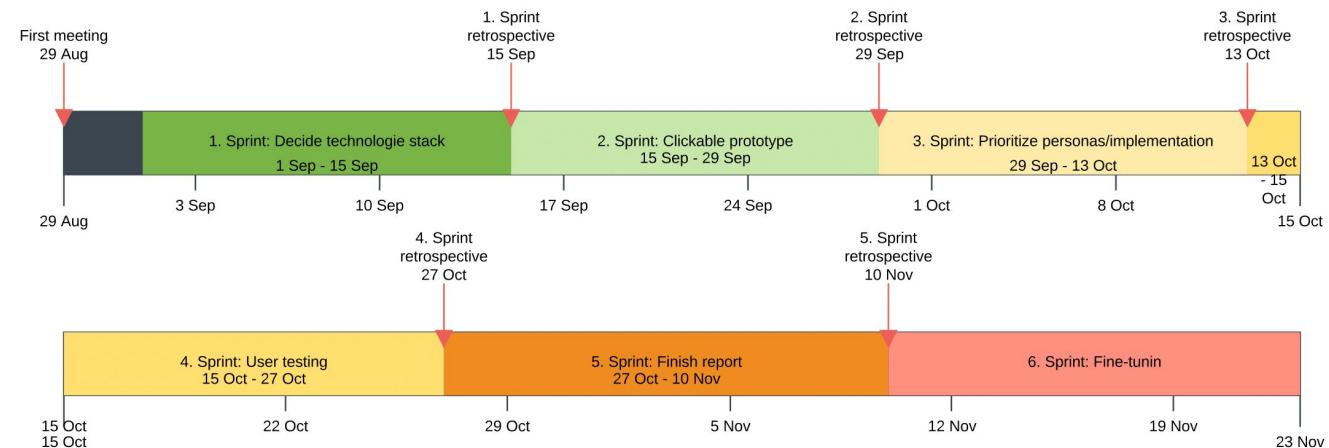


Methodology

Scrum

Sprints

Frequent feedback



Methodology

Activities

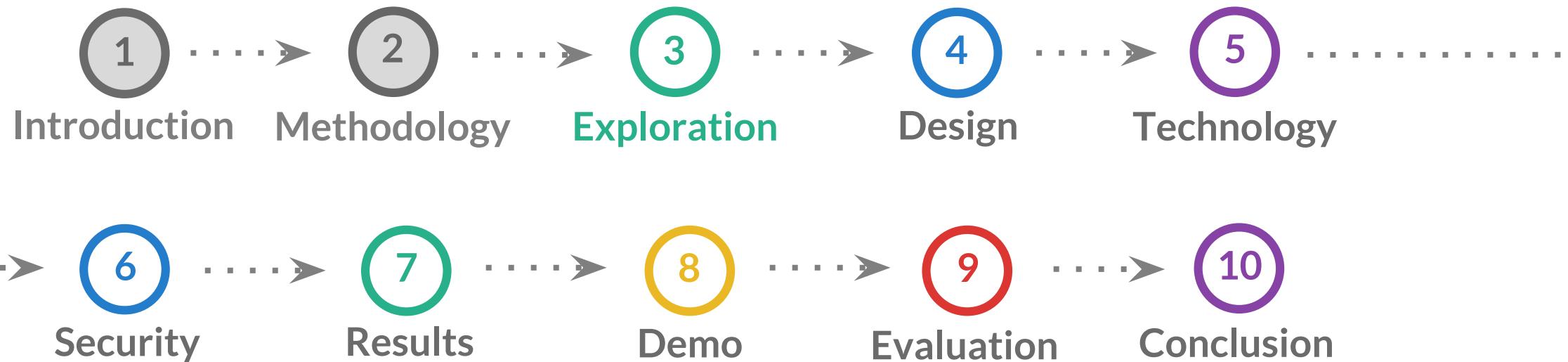
Sprint planning

Sprint retrospective

Standup meetings

Sprint review





Exploration

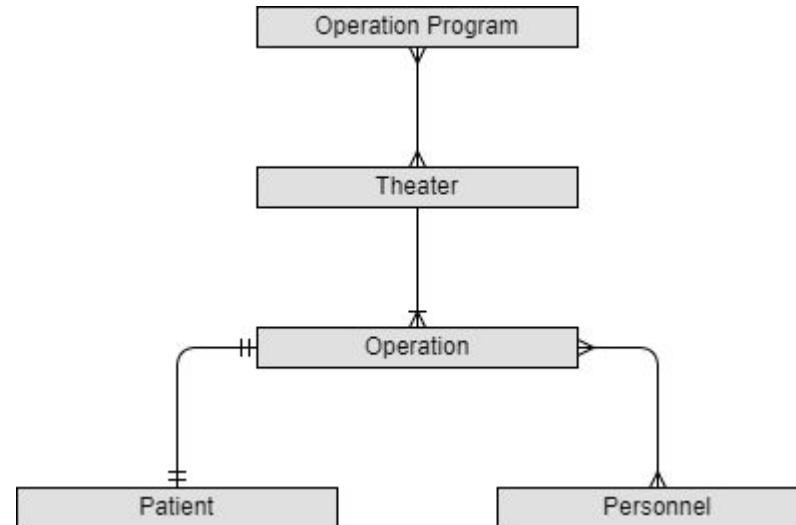
OpPlan

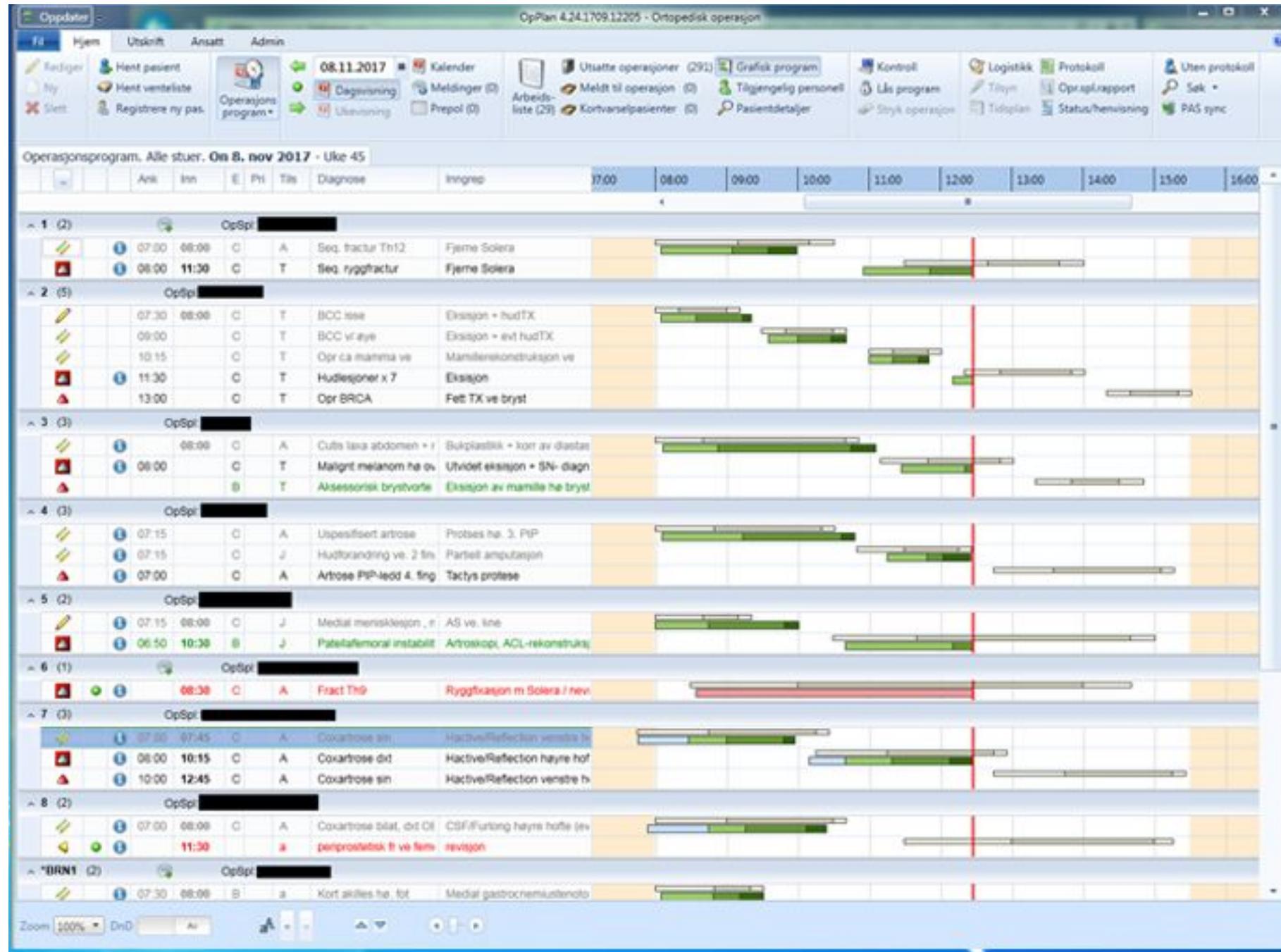
Operation programs

Theaters

Operations with phases

The timeline





Exploration

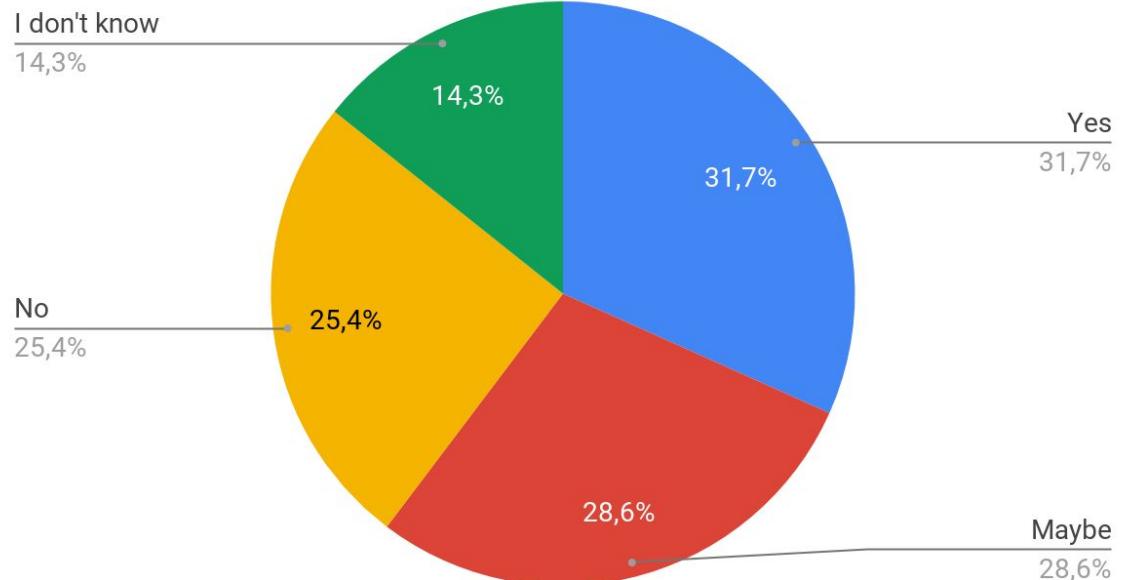
Information gathering

Interviews

Questionnaire

Field study

Do you see the use for a mobile application to supplement OpPlan?



Exploration

Information gathering

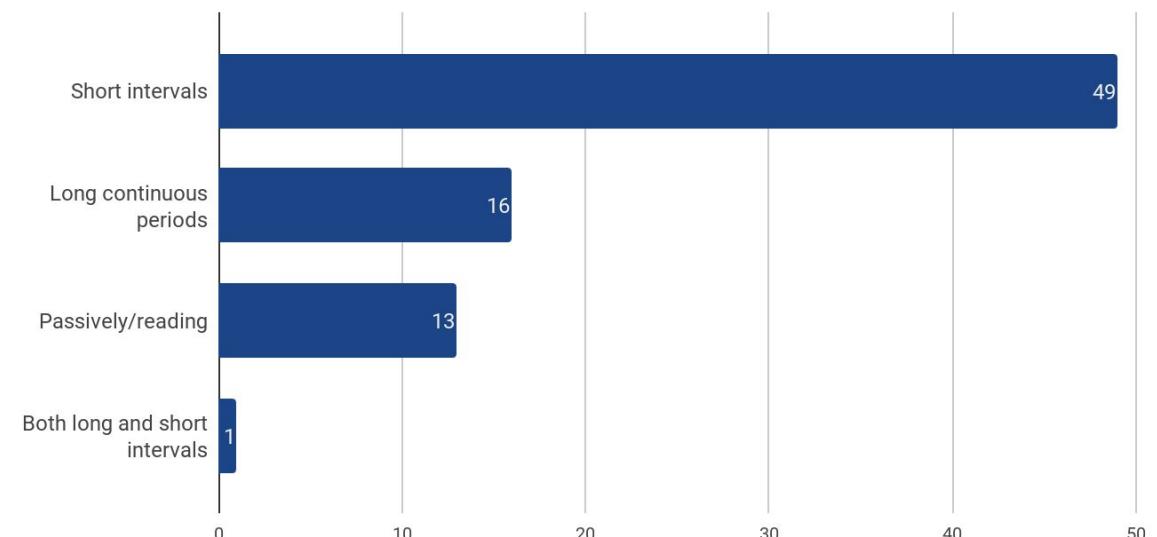
“I think a mobile application should give a quick overview over ongoing operations with clinical information and progress”

“I can absolutely see the use case, since the work day is hectic. Even in my job there are long periods of time when I am outside the office.”

“Doctors and surgeons could get an overview of their schedule in the application”

“I want the ability to see the timeline and to be able to quickly change between operation programs”

How do you use OpPlan?



Exploration

Requirements

- The timeline view
- The list view
- Operation details view
- My plan





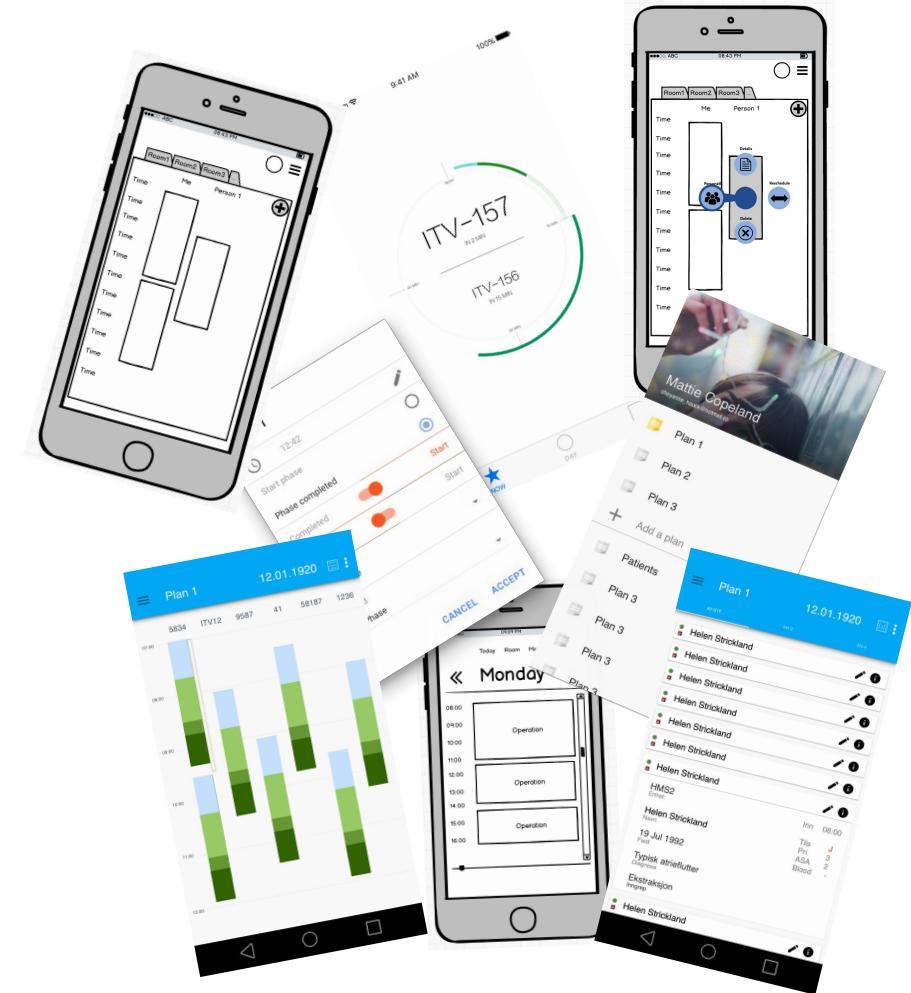
Design

Material design

Iterations

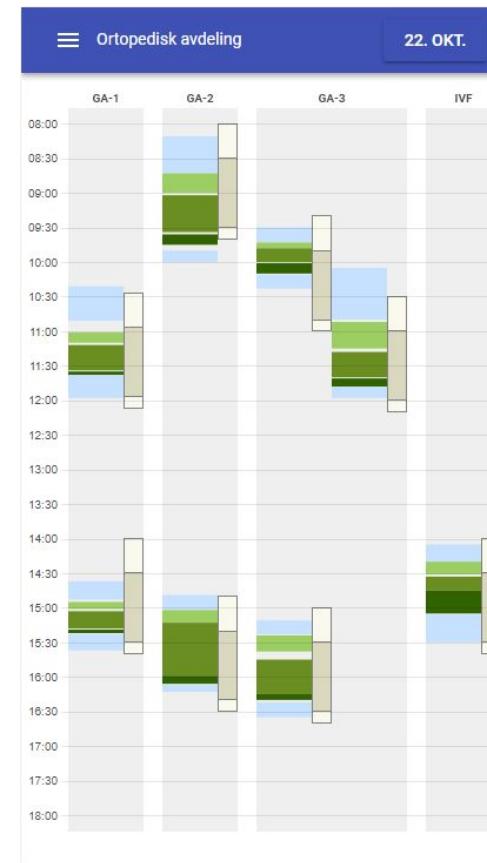
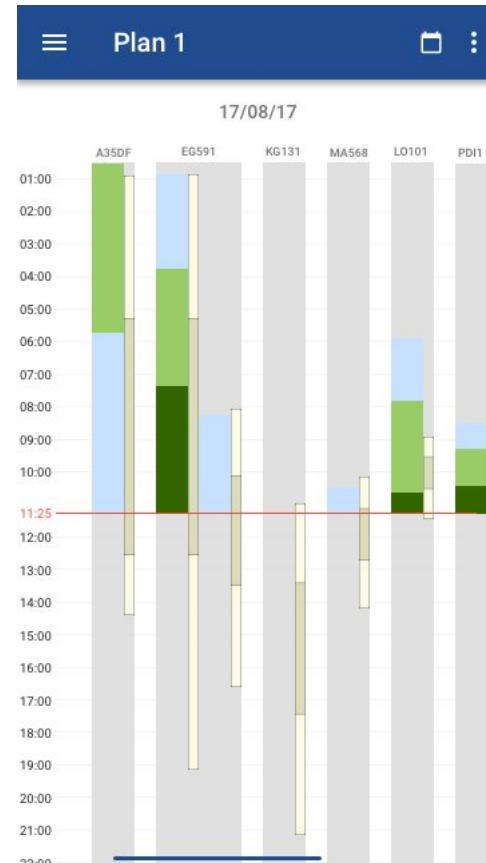
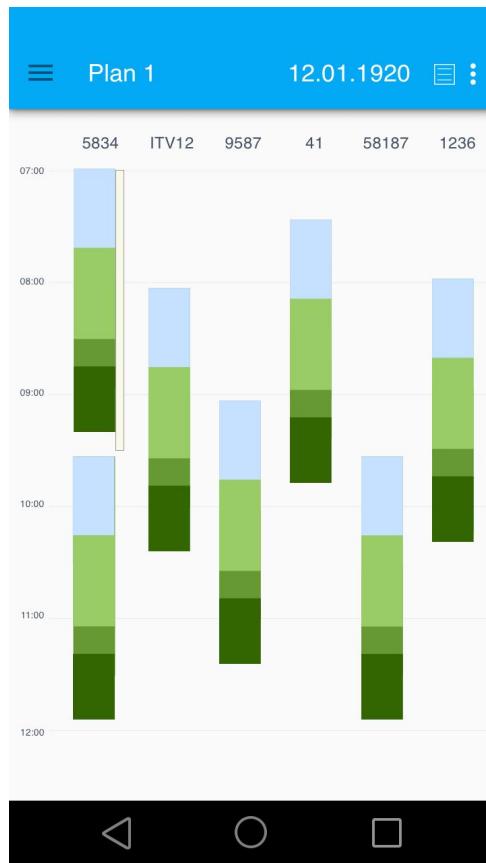
Sketches

Clickable prototype



Design

The timeline view



Design

The list view

Plan 1 12.01.1920

	AF-01F	AH-2	AH-4
Helen Strickland			
HMS2	Inn	08:00	
Helen Strickland	Tils	J	
Navn	Pri	3	
19 Jul 1992	ASA	2	
Født	Blood	-	
Typisk atrieflutter			
Diagnose			
Ekstraksjon			
Inngrep			
Helen Strickland			

◀ ○ □

Plan 1 17/08/17

	AF-01F	AH-2	AH-4	AH-4	AHD-
Cut off arm	Helen Strickland, Laser Eye Surgery Risks				
Cut off arm	Helen Strickland, Laser Eye Surgery Risks				
Cut off arm	Helen Strickland, Laser Eye Surgery Risks				
Cut off arm	Helen Strickland, Laser Eye Surgery Risks				
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Cut off arm	Helen Strickland, Laser Eye Surgery Risks				
Cut off arm	Helen Strickland, Laser Eye Surgery Risks				

Ortopedisk avdeling 22. OKT.

	GA-1	GA-2	GA-3	IVF	ER
Hemiprotese sin				M60	
FCF sin					
Arrkorreksjon				K22	
Arr abdomen					



Design

The details view

Michael Massey



41 LASIK is the most commonly performed refractive surgery procedure and stands for Laser Assisted In-Situ Keratomileusis. Owing much to the technological advances, several new refractive surgery procedures have been developed. However, the procedure is still the most potent and prevalent treatment of all surgical interventions for the eye.

07:00 The prevalence of LASIK has also ensured that it is very much accessible to nearly everyone who desires to undergo the surgery. Therefore, finding an efficient eye surgeon in your vicinity won't be difficult at all. LASIK procedure can surely eliminate your vision problems and offer you crystal clear vision – something that every living soul desires.

08:00 In essence, the procedure makes use of a high-precision laser called the excimer laser, which is an ultraviolet chemical laser. The procedure involves cutting a flap in the cornea. The flap is

09:00

10:00 Home Remedies To Retain Teeth And Lip Color For Intense Smokers
Tilleggsinfo

11:00 Skin Cancer Prevention 5 Ways To Protect Yourself From Uv Rays
Premedikasjon

12:00 What Is Classical Homeopathy
Trilleggsinfo

← →

← Titel **⋮**

Overview Information Asestesi Med. sta

Today

	Date	12.01.1920
Inn	08:00	
Tils	J	
Pri	3	
ASA	2	
Blood	-	

07:00 07:55 08:15
07:30 08:10

HMS2
Enhet

Helen Strickland
Navn

19 Jul 1992
Født

Laser Eye Surgery Risks Flap Dislocation After Flap Dislocation After
Diagnose

Methods That Aid In Eczema Relief
Inngrep

← →

← Ellen Skien **23. OKT.**

OVERSIKT OPERASJON ANESTESI F >

	Alder	Tils	Pri	ASA	Blod
Ellen Skien	30	A	1	2	AA

13:00 13:15 13:30 13:45 14:00 14:15 14:30

Artroskopisk partiell synovectomi ve. kne
Diagnose

Plica medialis
Inngrep

22/10/87
Født

HT, KT
Personell

KB2
Enhet

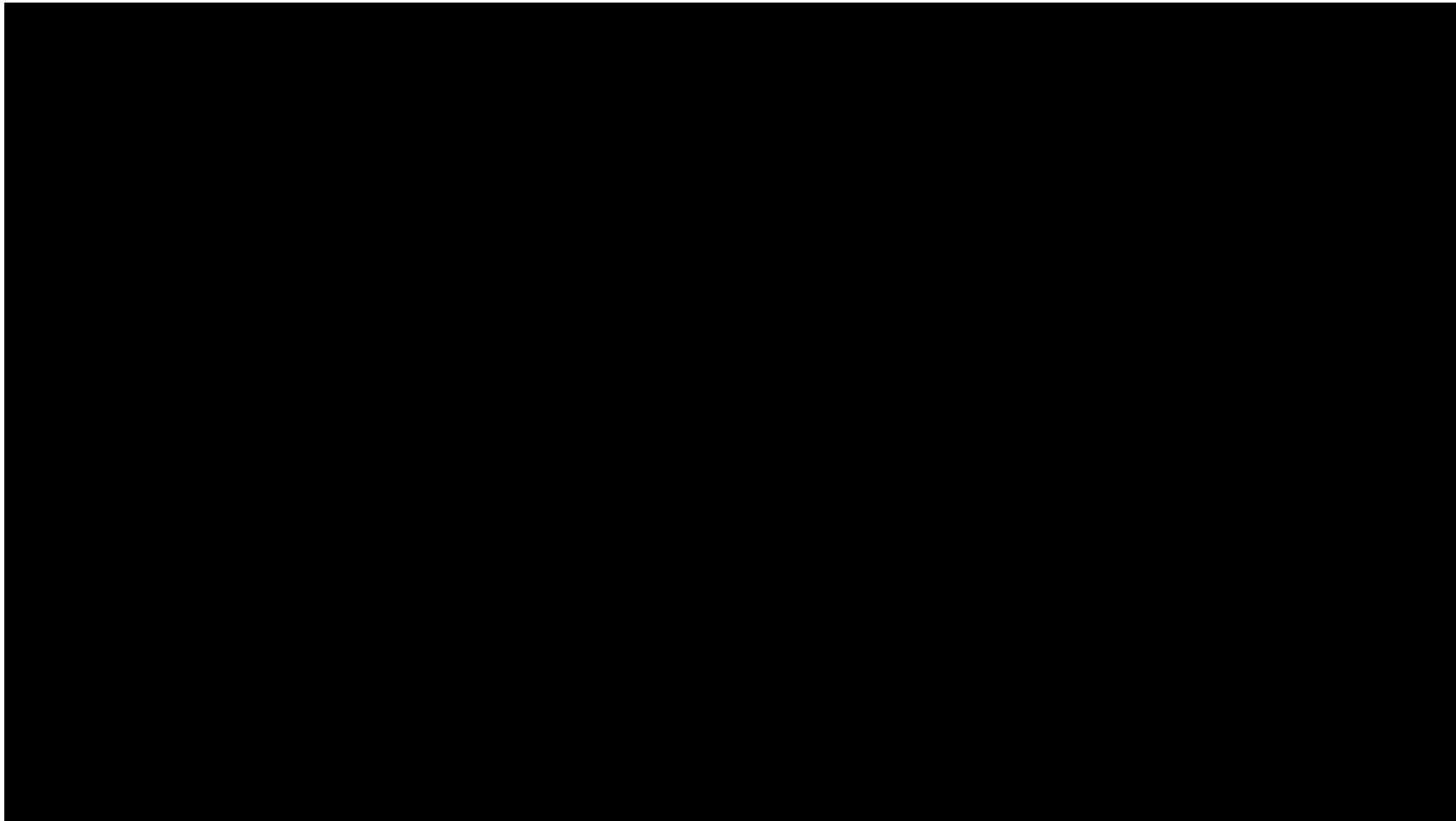
KB2
Utstyr

Scalpel
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Design

Usability test



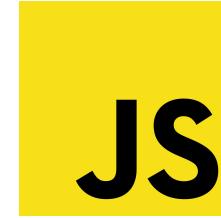
Scalpel
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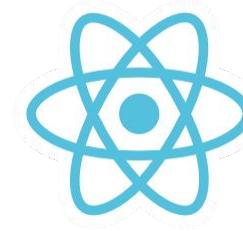


Technology

| Focus on frontend



| Platform (native, hybrid, web)



| Progressive web application



| React



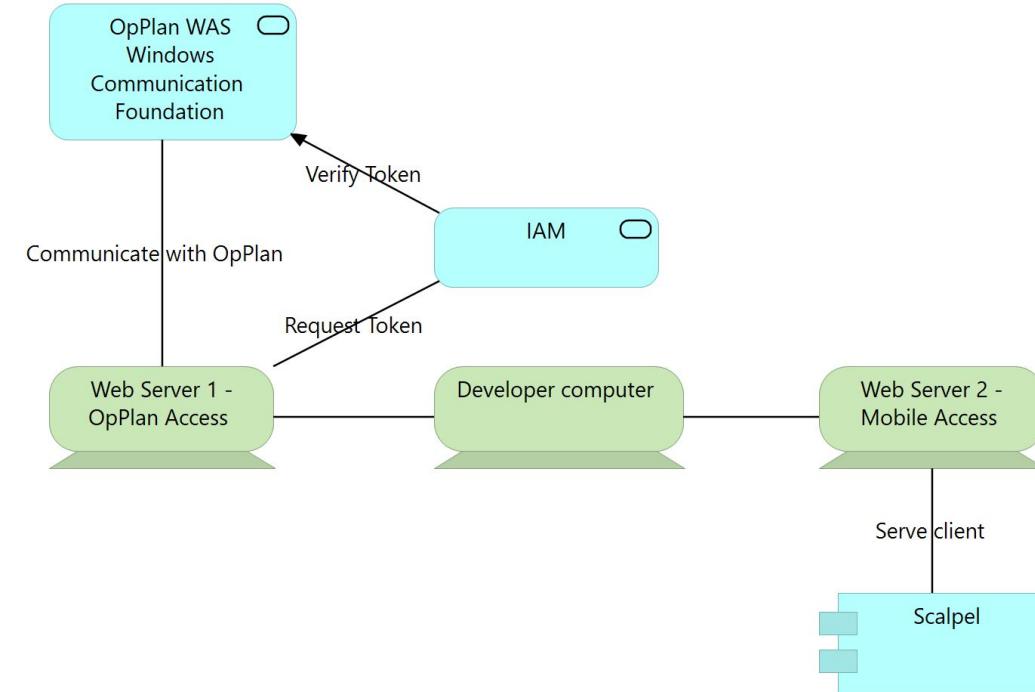


Security

Only front end

Built in security

Mobile authentication

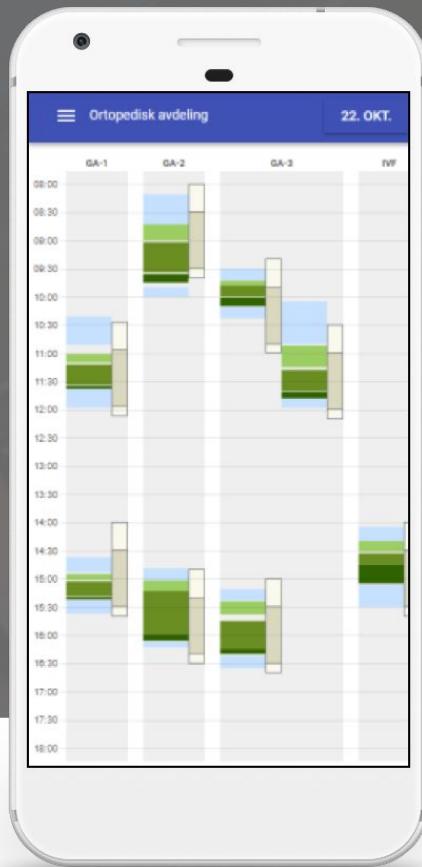




Results

Acceptance test

- Timeline view
- List view
- Operation details view
- My plan view



- Change date
- Change operation phase
- Change operation plan
- Call operation personnel



Results

Features not implemented

- Logging in
- Edit operation details
- Notifications



VIDEO





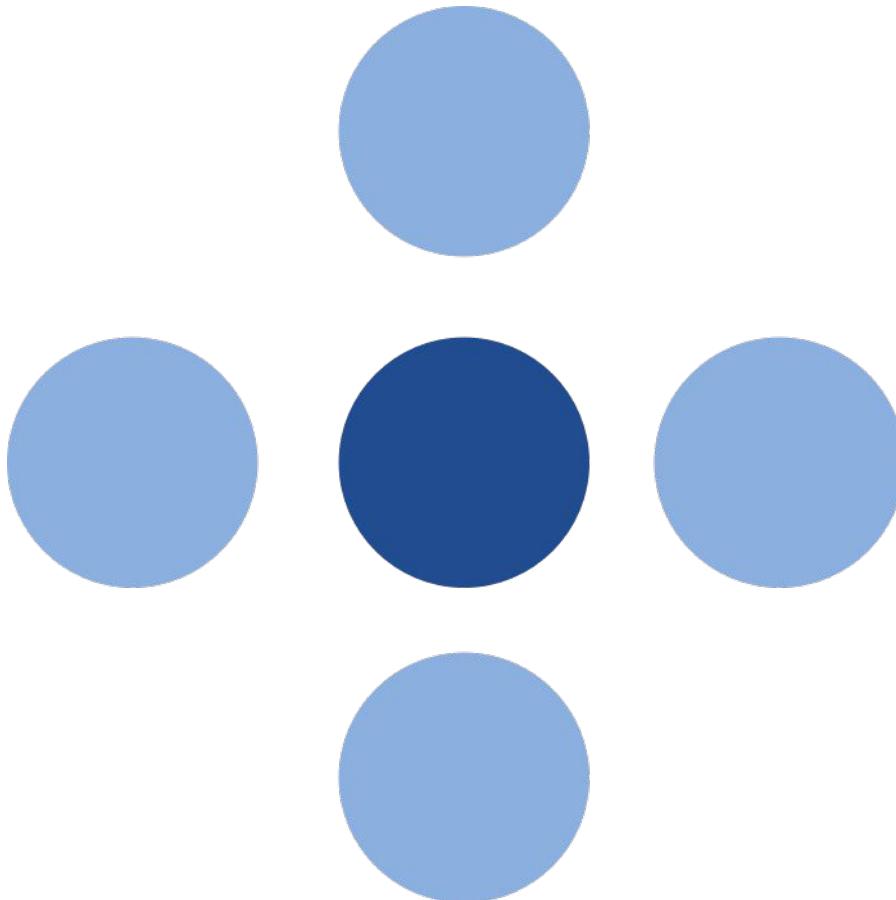
DEMO



Evaluation

The customer

- | Availability
- | Engaged
- | Working space



Evaluation

The team

Communication

Collaboration

Coffee



Evaluation

The course

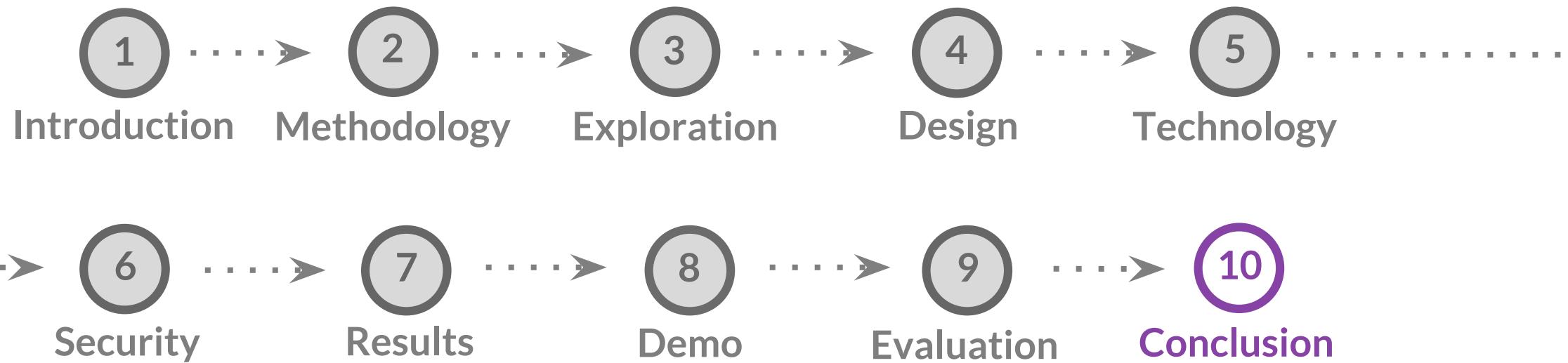
- Adviser
- Lectures
- Wiki



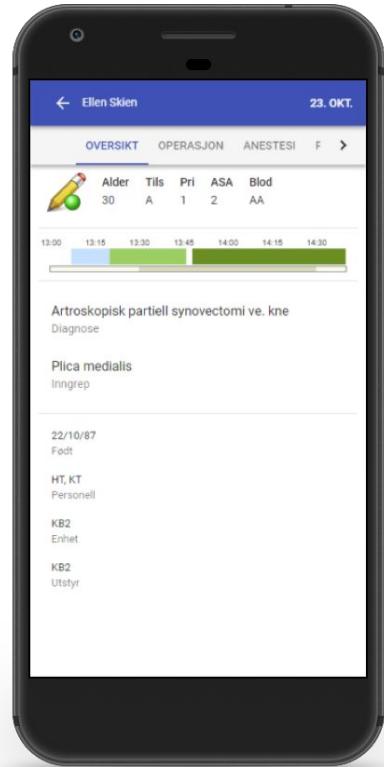
NTNU

Norwegian University
of
Science and Technology





Conclusion



Accomplishments

The way forward



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