

Meetings

Innhold

Meeting with Carlos, 14.12.22	1
Meeting with TV2 16.12.22.....	3
Group meeting 09.01.23	5
11.01.23	5
13.01.23	5
Meeting with Yavuz 16.01.2023	6
Meeting Yavuz, Carlos, Arild 24. Jan	6
Meeting 27.01.23 with Yavuz and Carlos.....	7
Meeting with Arild from TV2 03.02.23	8
Meeting with Yavuz and Carlos 15.02.23.....	8
Meeting with Yavuz and Carlos 03.02.23.....	8
Meeting with Carlos 10.02.23	9
Meeting with Arild 22.03.23	9
Meeting with Carlos and Yavuz 23.03.23.....	9
Meeting with Yavuz 31.03.23	9
Meeting with Yavuz and Carlos 05.05.23.....	10

Meeting with Carlos, 14.12.22

Participants:

Truls Teige Pettersen

Sivan Mahmud

Carlos Vicient Monlau

Goal of the meeting – Deciding on a problem area/statement for the bachelor project

Options:

Bærekraft

TV 2 har en rekke webtjenester i sin portefølje. Per i dag er disse bygget med mange ulike rammeverk og programmeringsspråk. Det siste året har vi en økt bevissthet rundt bærekraft i utvikling og drift av våre tjenester, men vi har ikke etablert noen føringer eller «beste praksis» for hvordan vi skal ivareta bærekraftaspektet i arbeidet vårt. Her er det flere spørsmål eller problemstillinger som kunne vært undersøkt eller jobbet nærmere med:

- Etablere en «beste praksis» anbefaling eller manifest for bærekraftig utvikling og drift i TV 2 som beskriver teknologiske eller arkitekturvalg eller lignende.
- Possibilities of interviews with tom greenwood.
- Interesting field
- Could make a poster.
- Identifisere de beste tiltakene TV 2 bør gjøre for å forbedre oss med tanke på bærekraft i utvikling og drift.
- Would require more coordination between the company and us to learn how they do things
- Hvor stor er effekten av å implementere «dark mode» på våre webtjenester i et bærekraftperspektiv? (Og eventuelt hvilke andre pros og cons er det vedrørende «dark mode» på web?)
- General research into dark mode technology and its implementation
- Er det en konflikt i TV 2s behov for å innfri brukeres forventninger til våre tjenester (kvalitet) mot hensyn til bærekraftige løsninger?
- Looks like a fun project.

Do they have internal team of developers, do they outsource, TV2 use labrador cms, next.js, craft.js, django framowork.

Identify the different projects they have, what they have in common, what content are dynamic, create a small library component.

Best project, establishing best practice, developing a checkbox

Mobile first

En veldig stor andel av TV 2s brukermasse benytter TV 2s tjenester via mobil, enten via nettleser eller native mobilapp. Relatert til dette har TV 2 en del tiltak og investeringer som vi gjerne vil ha en vurdering av.

Feks:

- Mange brukere av mobil har aktivert «dark mode» enten permanent eller basert på tid på døgnet. Våre webtjenester er ikke laget for dark mode. Hvor modent er dark mode på web og hva er beste praksis for implementering?
- Interested in looking deeper into dark mode both in the mobile and sustainability.
- TV 2 leverer tilsvarende eller veldig like tjenester på tvers av web og native app. Vi har med jevne mellomrom en dialog på hvorvidt web kan erstatte native app, for her kommer webteknologien stadig lenger. Spørsmålet er nå igjen – vil TV 2 kunne redusere sin kompleksitet og kostnader ved å erstatte sine native apper med kun webteknologi?
- Personally, not sure about the replacing app with just web statement and the cost saved by that, not something I know anything about.
- Why are they using app currently?
- Many services, making design guideline with components. Design system

Søketeknologi

- TV 2 bruker søketeknologi i veldig liten grad i sine publikumsvendte tjenester, altså tv2.no. Vi har over årene bygget oss opp en stor katalog av innhold som er fordelt på ulike tjenester og typer innhold (video, artikler, bilder, osv), men vi er ikke så gode til å presentere de samlet under en overskrift. Eksempel «alt innhold om Jonas Gahr Støre» eller «siste

innhold om Kompani Lauritzen». Hvordan kan TV 2 utnytte søketeknologi for å fremme sitt innhold bedre og bygge nye sluttbrukeropplevelser basert på eksisterende innhold?

- Could be interesting to look deeper into, not too much familiarity with search technology other than tags.
- Look into algolia.

Notes from the meeting

- Whats the length, how many images, compress images. Make a tool

Automatic option: using labrador cms, develop an extension.

Make a small website, develop some guidelines for journalists to follow.

Map all the applications they have, IOS, ANDROID. Show the advantages of progressive web apps, are they more sustainable.

Questions for TV2.

Measure dark mode statistics, measure cost, analysis.

Meeting with TV2 16.12.22

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- Identifisere de beste tiltakene TV 2 bør gjøre for å forbedre oss med tanke på bærekraft i utvikling og drift.
- Hvor stor er effekten av å implementere «dark mode» på våre webtjenester i et bærekraftperspektiv? (Og eventuelt hvilke andre pros og cons er det vedrørende «dark mode» på web?)
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Do they have internal team of developers, do they outsource,

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PWA:

- Progressive web application vs native application
- +
- SEO for PWA
- LOWER COST FOR PWA
- Easier to distribute
- Easy install since its just an url
- Takes up less space
- Faster than just a responsive mobile site
- -
- Less security
- Slower than a native app
- push notifications are more limited

Many services, making design guideline with components. Design system

Spørsmål til Arild

- What problem they want you to solve you?
- Manifest på best practice on sustainable web design focused on the services TV2 is working on. Cloud based web applications for a big audience, 2 mill everyday, scaleable but lean. Not too generalized, skreddersydd.
- Why is that a problem?
- They have little experience, but recognizes that its important regarding optimization, UX
- How they deal with this as per today?
- Road map with goals as of today, not enough time to investigate it seriously, a developer will investigate it in spare time, but not a specified competence knowledge about this. Want more knowledge about this.
- Description of goals of this project (result and effect goals)

Bærekraft, nytt på tv2, startet rett før sommeren

- Ikke tydelig fokus,
- Vil jobbe mere med det.
- Uklart hva det innebærer
- Manifest, best practice, huskeliste med punkter de kan følge, når de utvikler nytt produkt, i forhold til webutvikling, og skytjenester, hva burde man huske på når de gjelder.

Undersøker hva de har i dag, hva rammeverk, rangere forbedringspotensiale , hva effekt de har ved og se på det i forhold til bærekraft. Se på noen få tjenester, se forbedringer med undersøkelse.

PWA kan man erstatte funksjonalitetene til native app med en web app.

Group meeting 09.01.23

Meeting duration 25 minutes.

Participants: Sivan and Truls

Purpose of meeting:

deciding on what we shall do for the upcoming delivery on the 16 of January

What we did this meeting:

- We made a group contract where we came to an agreement on rules and what to do if conflict arises. We also made an agreement to try to meet 5 times a week.

To do for next meeting:

Truls will investigate the deliverables for the Project Outline, Sivan will look at the project plan.

Made an agreement to meet tomorrow at 12 on campus at the bachelor area.

11.01.23

Meeting with Yavuz Inal

Came to an agreement on what to do.

Get some answers about tv2 needs and

Develop WCAG-like for sustainability

Develop a tool/extension based on our guidelines.

Clarify with a tv2 what kind of tool.

<https://www.tawdis.net/index>

13.01.23

Meeting with TV2 on what to develop for them

Ideas for development project:

1. Evaluerings verktøy, basert på våre funn.
2. extension for chrome.
3. en av webtjenestene tv2 har og forbedre bærekraft for dem. For eksempel videoside som ikke har blitt gjort så mye på flere år, må forholde oss til de API'ene de bruker. Værtjenester, oppskrifter. Bygge en front end tjeneste.

Meeting with Yavuz 16.01.2023

Meeting with our tutor to answer some questions about the project plan/outline

What we need to have done by today is:

- A **formal project outline** containing:
 - 1. General background – Mostly done
 - 2. Problem description – Mostly done
 - 3. Description of goals (result goals and effect goals) - Could be improved a bit
 - 4. Research questions – Need some more
 - 5. Means and methods – Still need to do
- and a **Project plan** containing:
 - 1. Phases, milestones, activities, responsibilities and roles – Somewhat complete
 - 2. Planning and/or development framework – Still need to do
 - 3. Decision points and meeting schedule – done mostly
 - 4. Risk assessment, risk management and how to document the work – Halfway done
 - 5. Group rules and conflict handling plans – Done.

Get an answer to what direction to take the development part of the project.

Decided on the tool/extension.

Write report after each phase.

Method is user centered design.

Analysis phase, prototype based on the analysis.

Meeting Yavuz, Carlos, Arild 24. Jan

Meeting topics

- Discuss the finished project plan
- Is it ok, should we change something?
- Carlos Idea about dark mode? Is it worth changing the project topic?
- Clarifying
- The research going forward, how to make sure the finished manifest will fit TV2's needs.

- possible interview with Tom Greenwood, or other experts on sustainability, MightyBytes?
- Co-operation with the other group focused on sustainability?

Feedback on project plan: Carlos is unsure about the types of services TV2 is delivering. They have many different services and guidelines so you can make a generic checklist, but it would be more interesting to focus on a subset of those. Target a specific service, map it out, understand workflow. Then redefine the scope a little bit.

Arild: There are good service that rate sustainability but they are very generic. So it would be nice to have it narrowed down to be more relevant to TV2. If we make a validation tool it would be fine if it just addressed a few things, but we are not sure what those things are yet.

Hosting the full stack application so it's easier to get insight into the technology. Front end might be best to focus on.

Uses Labrador CMS. Not easy to get insight into how they operate, but can try to get in contact with them.

Carlos believes working with Labrador will be important for the sustainability of TV2.

Smaller applications like food recipes they have more control over

Carlos: do research with user analytics to look into how different services get traffic, can help with narrowing down what small things can be changed.

Arild: Can provide google analytics.

Get a set of data, make some small changes, get another set of data and see the impact.

Arild: Can share some information with URLs.

TV2 doesn't understand well the effect of being more sustainable, sometimes they pick sustainable technologies accidentally, without being aware of it's effects.

Can possible collaborate with other bachelor group, have to ask them ourselves.

Carlos: Run the process and be agile about the plan.

Meeting 27.01.23 with Yavuz and Carlos

Meeting goal: Discuss the next steps of the project

No more recording of meetings.

How to proceed.

Scope of the project.

Focus on the systems within the company.

Get data about a system, improve the system based on sustainability. Let company use for some weeks, get more data after they have used the system after our tampering.

Our project should be to measure.

Small improvements

Meeting with Arild from TV2 03.02.23

Content of the meeting, discuss the systems within the company, get data about the system find ways to improve the system based on sustainability, let the company use it for some weeks. Then finally get more data to see if what we changed had an impact or not.

Interessant å se de sidene som scorer best på ecograder, og lære fra de.

Noen ting er vanskelig å cache, men oppskrifter f.eks kan bli cached.

Kunne kanskje gitt en kopi / sandkasse miljø for at vi kan gjøre noen endringer på den.

Kan kanskje la oss endre litt kode på webapplikasjoner som gjør det dårlig på bærekraftighet, og så måle effekten.

Må prate med teamet sitt om det først.

Jobbe med vær app, ny oppskrift app

Meeting with Yavuz and Carlos 15.02.23

Who are we going to be interviewing at TV2? Developers? Managers?

Do they have a sitemap? Need that to analyze the webapp.

Why are some TV2 pages more sustainable than others? What do they have in common?

Use tools to analyze subpages as well.

Present estimates of how much CO2 emissions will be saved to TV2 to convince them of some changes.

Eye tracking study showed that people would skip decorative images next to text.

How many daily / monthly users? If sports page doesn't have many users, maybe it's not worth working on.

Ask Arild about what screens users use.

Get all that data ASAP. Share with Carlos, willing to sign NDA.

Carlos wants presentation of main findings of Truls' in-depth project.

Try making a script that analyzes all 3 tools on all links you input. This way you can quickly get data on all sub-pages. Add some random seconds delay between requests so you don't get banned.

Meeting with Yavuz and Carlos 03.02.23

In project report, list all criterias we have in mind, and explain why they are important in terms of sustainability, and show data of the criteria, before and after, to show the effectiveness of criterias.

Write about CSS files in manifesto, in HTML or not.

Think about how to prove that your improvements are effective.

Prepare all relevant questions for field study. Talk to people of different roles and experiences.

Meeting with Carlos 10.02.23

Measure before and after of small changes. After many small changes, put them together in a spreadsheet.

Each experiment we do needs to support our guidelines for TV2

Meeting with Arild 22.03.23

Vil kunne endre på feeden. Helst kunne endre test bildene som allerede er der, for å teste med WEBP, forskjellige størrelser.

Mulig å intervjuere developers?

Vanskelig å legge til bilde innlegg fordi det går gjennom backenden, som kommer til å endre bilder på samme måte.

Meeting with Carlos and Yavuz 23.03.23

15 posts being loaded is fine. Maybe do an experiment to see how many posts users look at. Suggests doing manual analysis. Not really time for coding. Write script that downloads all images from page. Use another script that converts images to preferred format. Then compare previous and now, show difference. How much energy is spared. CO2 generated before and after.

Dark mode: how many users have dark mode enabled?

Eye tracking user test? To see if users even look at images.

Turn it into a more theoretical type of project.

Meeting with Yavuz 31.03.23

Recap of what we've done.

Implement <Picture> element.

After that, look at fonts, and dark mode.

Quickly finish implementation, get post data. Spend all efforts after that on the report.

It's important to have some user research.

Before next meeting in 2 weeks: Finish some parts of the document.

Meeting with Yavuz and Carlos 05.05.23

Change background and theory to just background. Expand literature review. Add definitions. Move definitions from introduction to background, keep introduction short.

In methods add section for how you analyzed gathered data from the tv2 websites.

Method is explanation of what youre trying to do. Take some part of the theory and test it on TV2 for example. Explain how you analyzed website. After analyzing you get results.

1. How developed the guideline (from literature)
2. Testing the guideline (experiments)
3. In discussion why and how guidelines is important
- 4.