

### 04.02.01 Web prototype

#### Link to the GitHub repository

<https://github.com/kerttutimonen/intranet.git>

#### Link to the published site

<http://kerttu.dk/Fronter/fronter/index.html>

### Work process described and demonstrated with code snippets

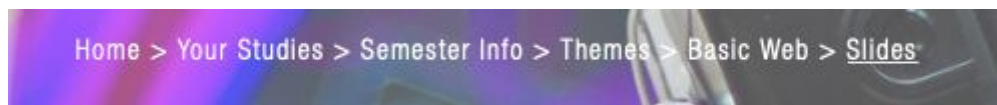
#### XD Prototype

The work process started as a group project. We created a corresponding platform for KEA's *Fronter* and called it **KEA INTRANET**. As a group we designed and created a prototype of the website, using Adobe XD.

*(insert pic of the xd prototype)*

#### The user-workflow

Coding the prototype based on the XD prototype was an individual task. I decided to code an user-workflow that started from the very first landing page where the user chooses the language. The workflow goes all the way to the *Slides*.



It is possible to access to the slides from all of the four theme sections.

The user has a possibility to use the website either in English or in Danish (the user-workflow I coded is in English).

I coded the mobile version first. The desktop version has a different kind of animated navigation.

```
.dropdown-content {  
  display: none;  
  position: absolute;  
  top: 90%;  
  left: 67%;  
  background-color: #EA5045;  
  overflow: auto;  
  margin: auto;  
  font-family: aioli;  
  text-align: center;  
  animation-name: fadeInRight;  
  animation-duration: 1s;  
}
```

*The animation used in the mobile version*

```
.dropdown-content {  
  display: none;  
  position: absolute;  
  top: 100%;  
  left: 87%;  
  background-color: #EA5045;  
  overflow: auto;  
  margin: auto;  
  font-family: aioli;  
  text-align: center;  
  animation-name: slideInDown;  
  animation-duration: 1s;  
}
```

*The animation used in the desktop version*

```
function myFunction(x) {  
  x.classList.toggle("change");  
  
  document.getElementById("myDropdown").classList.toggle("show");  
}
```

*The (hamburger) navigation works with Javascript*

In the overall layout I've used CSS grids a lot. I chose to do that since it provided me a well-functioning responsive website. The structure of the grids might differ from page to page.

```
body {  
  
    background-image: url(images/logo/bcgnwvsn.png);  
    background-size: cover;  
    background-attachment: fixed;  
    background-position: center;  
    background-repeat: no-repeat;  
    height: 100%;  
    width: 100%;  
    margin: auto;  
    display: grid;  
    max-width: 667px;  
    overflow: scroll;  
    grid-template-columns: 1fr;  
    grid-template-areas:  
        "header"  
        "navi"  
        "main"|  
        "footer";  
}
```

*An example of the CSS grids*

The menu as well as the “Go Back” button are coded by using forms.

```
<main>  
    <form id="semesterinfomenu">  
  
        <a href="semesterinfo.html"  
        class="offerbutton">Semester Info</a>  
        <a href="#" class="offerbutton">Messages</a>  
        <a href="#" class="offerbutton">Study Guide</a>  
        <a href="#" class="offerbutton">Quality of Studies</a>  
        <a href="#" class="offerbutton">Semester Abroad</a>  
  
    </form>  
  
</main>  
  
<form action="dashboard.html" class="footer">  
  
    <button class="backbutton">Go back</button>  
  
</form>
```

*A code snippet of the forms*

## Technical test of the prototype

### Code validation

I made sure the HTML and CSS code validates on every single URL (using <https://validator.w3.org/>)

Showing results for <http://kerttu.dk/Fronter/fronter/index.html>

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by

<http://kerttu.dk/Fronter/fronter/index.html>

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 608 milliseconds.

Showing results for <http://kerttu.dk/Fronter/fronter/index2.html>

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by

<http://kerttu.dk/Fronter/fronter/index2.html>

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 233 milliseconds.

Showing results for <http://kerttu.dk/Fronter/fronter/dashboard.html?>

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by

<http://kerttu.dk/Fronter/fronter/dashboard.html?>

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 240 milliseconds.

Showing results for <http://kerttu.dk/Fronter/fronter/yourstudies.html>

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by

<http://kerttu.dk/Fronter/fronter/yourstudies.html>

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 235 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/semesterinfo.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address 

<http://kerttu.dk/Fronter/fronter/semesterinfo.html>

Check


Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 328 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/overview.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address 

<http://kerttu.dk/Fronter/fronter/overview.html>

Check


Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 637 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/schedule.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address 

<http://kerttu.dk/Fronter/fronter/schedule.html>

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 237 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/portfolio.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address 

<http://kerttu.dk/Fronter/fronter/portfolio.html>

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 302 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/themes.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address 

<http://kerttu.dk/Fronter/fronter/themes.html>

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 228 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/basicweb.html

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by address

http://kerttu.dk/Fronter/fronter/basicweb.html

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 233 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/basicanimation.html

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by address

http://kerttu.dk/Fronter/fronter/basicanimation.html

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 241 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/basiccontent.html

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by address

http://kerttu.dk/Fronter/fronter/basiccontent.html

Absolute URL (http, https or data only) of the document to be checked.

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 237 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/basicux.html

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by address

http://kerttu.dk/Fronter/fronter/basicux.html

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 226 milliseconds.

Showing results for http://kerttu.dk/Fronter/fronter/getintouch.html?

Checker Input

Show ☐ source ☐ outline ☐ image report 

Check by address

http://kerttu.dk/Fronter/fronter/getintouch.html?

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 235 milliseconds.

HTML

Document checking completed. No errors or warnings to show.

## CSS

### Usability tests (user tests) of the prototype

#### *Five Second Test*

I provided a 5 sec test using the platform called Usability Hub. The picture of the Sign In page was shown for the testers for 6 seconds. Find the questions and results below:

A 1 a. Short text question

What was the name of the institution that this product is made for?

Answers 4 Tags 0 Word cloud

Search responses

Add/edit tags

Kea

Kea

Kea

KEA

A 1 c. Short text question

What can you do on that page?

Answers 4 Tags 0 Word cloud

Search responses

Add/edit tags

Study

Continue for more information

Log in

Sign in

A 1 b. Short text question

What did the headline say?

Answers 4 Tags 0 Word cloud

Search responses

Add/edit tags

No answer given

Institute

No answer given

KEA

A 1 d. Short text question

What do you think this website is used for?

Answers 4 Tags 0 Word cloud

Add/edit tags

Studying

It is a Presentation of an institute

Social media

some internal stuff

A 1 e. Short text question

Was that website made for mobile devices or desktops?

Answers 4 Tags 0 Word cloud

Add/edit tags

Mobile

Mobile devices

Mobile device

mobile

**Analysis of the test results:** It seems like people didn't really notice the headline "Intranet". It was clear that the website was made for mobile devices, but the purpose of the website wasn't that clear - although it might also be that the people weren't introduced with the concept first.

### **Performance test**

I tested the performance by giving the link for the final product to a student. She's not studying at KEA, and in her university they are using Moodle for the same things KEA Intranet could be used for. She tested the website using her iPhone 7. I gave her "free hands" with this, but I mentioned that it only has one user workflow. I also helped her a bit by asking some questions she could use for her comments: *Does she like how it looks? Is the website easy to use? Is there some parts/sections that are working worse than others? Does she think she could get used to a platform like this (easily)?* I also asked her to compare this to the Moodle they are using.



Her comments: *“The outlook was clear and pleasant. What was good about the usability was that there was no need to click 900 different buttons before you get where you want to - it was logical. Some buttons weren’t clickable but I guess it was meant to be like that at this point. I feel like I could get used to this quickly, mostly because it was logical and you don’t need to use your brain too much when using it. Compared to Moodle I especially liked this part very much:*



*But on the other hand, Moodle has more information to offer. Once you open Moodle, you see all the upcoming deadlines immediately, so you can start to panic about those right after you open the app.*

**Analysis of the test results:** It was nice to know that the user found this app logical, since that was one of my concerns. The “Semester Info” part (that’s also on the picture above) could be definitely moved to another part, maybe to the very beginning.

### **Needed adjustments**

After doing the tests I would change the structure so that the overview would be easier accessible. After testing the prototype multiple times also myself, I also noticed that the dropdown navigation goes underneath the content, which needs to be fixed.