Web Interface Design



Bootstrap

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2° DAW

Content

Project Ideation	1
Setting Up the Development Environment:	1
Install Node.js and npm	1
Create a new project and initialize a Git repository	2
Install Bootstrap through npm	3
Install sass through npm	3
Designing the Dashboard:	3
Mockup of the desired design	3
Customizing the Bootstrap Theme:	4
Advanced Features and Improvements	5
Testing and Optimization:	6
Google Chrome	6
Vivaldi	7
Microsoft Edge	8
Bibliography	9

Project Ideation

This application is a Kakebo through which you can easily keep track of your expenses. To access it is necessary to have an account, once registered on the first screen you have a dashboard with a summary of all annual transactions and spending categories. Through the menu you can navigate to the tables with the different data arranged in tables.

Setting Up the Development Environment:

Install Node.js and npm



Download the installer and install it.

```
Símbolo del sistema

Microsoft Windows [Versión 10.0.19045.3803]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\angy_>node -v
v20.10.0

C:\Users\angy_>npm -v
10.2.3

C:\Users\angy_>
```

It has been installed correctly.

Create a new project and initialize a Git repository

```
PS C:\Users\angy_\OneDrive - Educacyl\DAW\2°\3. DIW - Diseño\Tareas\03. Bootstrap> npm init
This utility will walk you through creating a package.json file.

It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

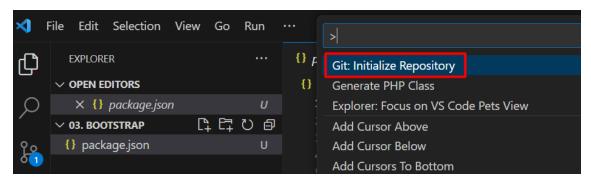
Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (03.-bootstrap)
version: (1.0.0)
description: Bootstrap website
entry point: (index.js)
test command:
git repository:
keywords:
author: Angela Alonso Moro
license: (ISC)
About to write to C:\Users\angy_\OneDrive - Educacyl\DAW\2°\3. DIW - Diseño\Tareas\03. Bootstrap\package.json:

{
    "name": "03.-bootstrap",
    "version": "Bootstrap website",
    "main": "index.js",
    "scripts:" {
        "test": "echo \"Error: no test specified\" && exit 1"
        },
        "author": "Angela Alonso Moro",
        "license": "ISC"
}

Is this OK? (yes) y
```

Creation of the project.



Initialization of the local repository.

Linking the local repository to the online repository

Install Bootstrap through npm

```
PS C:\Users\angy_\OneDrive - Educacyl\DAW\2º\3. DIW - Diseño\Tareas\03. Bootstrap> npm install bootstrap@5.3.2

added 2 packages, and audited 3 packages in 2s

2 packages are looking for funding
    run `npm fund` for details

found 0 vulnerabilities

PS C:\Users\angy_\OneDrive - Educacyl\DAW\2º\3. DIW - Diseño\Tareas\03. Bootstrap> []
```

Install sass through npm

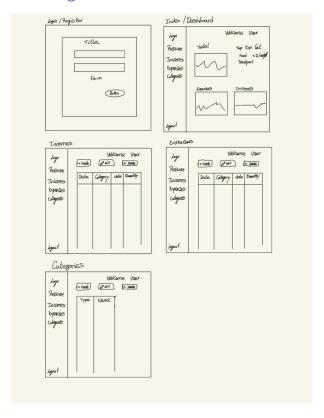
```
PS C:\xampp\htdocs\daw\Bootstrap> npm install saas
added 1 package, and audited 27 packages in 3s
4 packages are looking for funding
   run `npm fund` for details

found @ vulnerabilities
PS C:\xampp\htdocs\daw\Bootstrap> []
```

Designing the Dashboard:

My Kakebo consists of interactive charts, tables and buttons through which to register your incomes and expenses.

Mockup of the desired design



Customizing the Bootstrap Theme:

```
    _navbar.scss U X
node_modules > bootstrap > scss > 🔗 _navbar.scss > ધ .navbar-expand > ધ &#{$infix} > ધ .navbar-nav > 😘 .nav-link
       .navbar-expand {
         @each $breakpoint in map-keys($grid-breakpoints) {
           $next: breakpoint-next($breakpoint, $grid-breakpoints);
           $infix: breakpoint-infix($next, $grid-breakpoints);
           &#{$infix} {
             @include media-breakpoint-up($next) {
               flex-wrap: nowrap;
               justify-content: flex-start;
               .navbar-nav {
                 flex-direction: row;
                 .dropdown-menu {
                   position: absolute;
                   padding-right: var(--#{$prefix}navbar-nav-link-padding-x);
                   padding-left: var(--#{$prefix}navbar-nav-link-padding-x);
color: ■white;
               .navbar-nav-scroll {
                overflow: visible:
               .navbar-collapse {
                display: flex !important; // stylelint-disable-line declaration-no-important
                 flex-basis: auto;
                .navbar-toggler {
                 display: none;
```

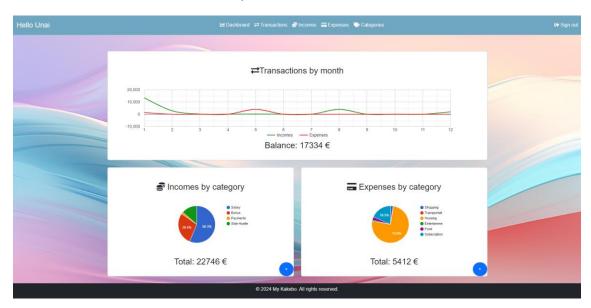
I have modified the bootstrap navbar component in its sass file. To the rest of the components of the web I have added style by combining the Bootstrap classes with the ones I have created through sass.

```
PS C:\xamppp\htdocs\Bootstrap\Bootstrap-website\style> npx sass style.scss style.css
PS C:\xamppp\htdocs\Bootstrap\Bootstrap-website\style> npx sass login.scss login.css
PS C:\xamppp\htdocs\Bootstrap\Bootstrap\website\style> \price |
```

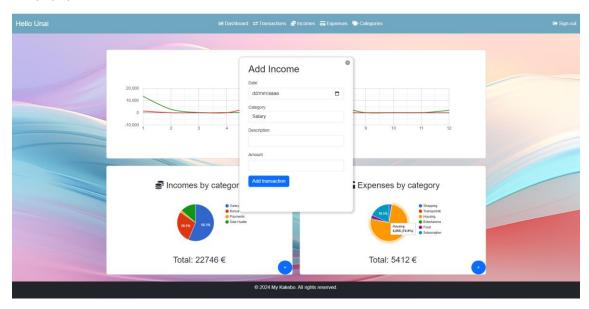
To be able to apply the style of the files in scss format it is necessary to compile them to css code.

```
✓ style
→ images
# login.css
# login.sss.map
Ø login.scss
# style.css
M
# style.css
M
Ø style.scss
```

Advanced Features and Improvements



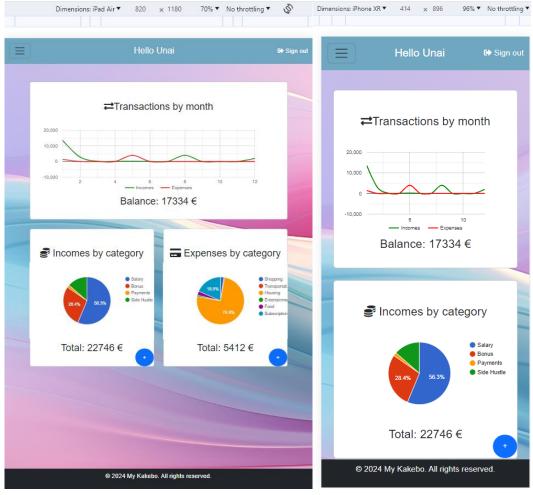
My kakebo has interactive charts. To record income and expenses, click on the + button to open the popup with the form that collects the data.



Testing and Optimization:

Google Chrome



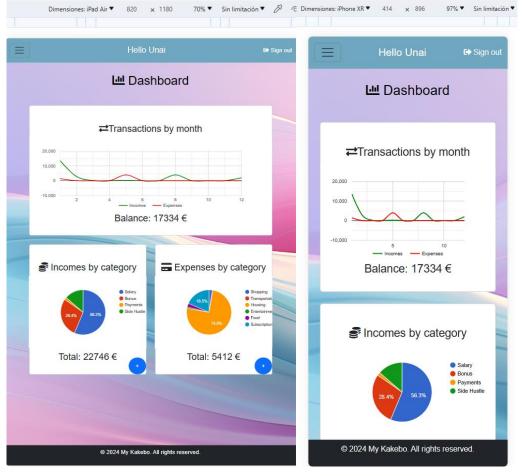


Vivaldi



Microsoft Edge





Bibliography

- Get started with Bootstrap. Available at.
 https://getbootstrap.com/docs/5.3/getting-started/introduction/ (Accessed: 18 January 2024).