# Coding tutorials website

Ángela Coello

#### Project overview



#### The product:

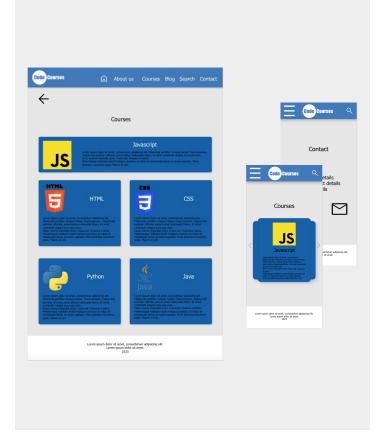
The product consists of a website that contains some coding courses.

Target users: coding students.



#### **Project duration:**

July 2023





#### Project overview



#### The problem:

New technologies are the present and the future and, because of that, it's getting more an more software students that need somewhere to find coding courses and contact with teachers.



#### The goal:

The goal of this project is to design a responsive website that coding students can use to communicate with teachers and find coding courses.

#### Project overview



#### My role:

UX Researcher and UX/UI Designer.



#### **Responsibilities:**

- User research.
- Wireframing.
- Prototyping.

## Understanding the user

- User research
- Personas
- Problem statements
- User journey maps

#### User research: summary

Th.

Some interviews and empathy maps have been conducted in order to understand the user's feelings, needs and behaviors.

User personas have been specially useful. The coding student wants to improve their technological skills and software knowledge and needs somewhere to find high-quality coding courses and contact with teachers.

#### User research: pain points



#### Management

The coding student needs a way of communication with coding teachers.



#### **Information**

The coding students need some place where they can find information and coding courses.



#### Leads

The general users would like a place where find current technology news.

#### Persona: **Pedro Fernández**

#### **Problem statement:**

Pedro is a Computer
Engineer who needs a
coding courses website
because he wants to
teach coding efficiently.



#### Pedro Fernández

Age: 49

Education: Engineering
Hometown: Madrid, Spain
Family: Wife, 1 dog

Occupation: Computer Engineer

"Teaching software development is my life"

#### Goals

- Teach coding to his students and transmit to them the philosophy of this profession.
- Manage his coding courses efficiently.

#### **Frustrations**

- Not having an appropriate communication channel with his students.
- Great experience in handling new technologies.

Pedro is a renowned Computer Engineering and teaches coding since a lot of years ago. He has students of different ages and skills and likes to teach them following an educational structure. For this reason, he would like to have a tool and communication channel with his students to be able to manage their progress (lessons, evaluation...) as well as inform them of different current technology news. A website is a good idea.

#### Persona: Kevin Torrance

#### **Problem statement:**

Kevin is a coding student who needs to learn new languages because he wants to improve his skill to be able to develop web apps.



#### **Kevin Torrance**

Age: 26

Education: Engineering Hometown: London, UK

Family: Father, mother, 1 sister

Occupation: Computer Engineer

"Technology has a lot of career opportunities"

#### Goals

- Improve his technological skills, especially coding knowledge.
- Get a certification in JavaScript to be able to develop web apps.

#### **Frustrations**

- Not having any coding certification yet.
- Not being able to develop a web app without somebody help.

Kevin is a 26-year-old boy who is passionate about technology. He started coding at the age of 15 and is excited to improve his skills. He plans to develop web applications in the short-term. Kevin handles new technologies with ease, so he likes to use coding learning websites and even mobile apps to learn.

#### User journey map

Mapping Kevin's user journey revealed how helpful it would be for a coding student to have a website for learning.

#### **Persona: Kevin Torrance**

Goal: Learn new programming languages efficiently

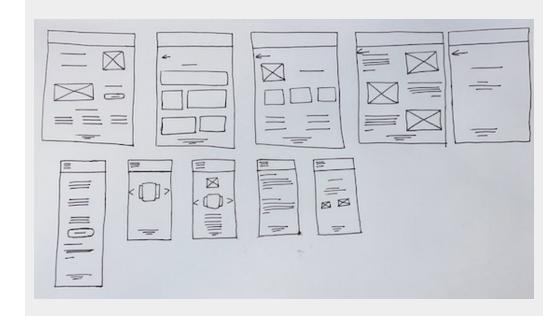
ACTION	To find coding courses	To communicate with programming teachers	To find information about current technology news
TASK LIST	A. Think about what programming language want to learn. B. Find the course. C. Start the course.	Tasks  A. Think about what he needs to ask or know. B. Find the teacher contact. C. Contact with the teacher.	Tasks  A. Think about current technology topics. B. Find information. C. Read the entry.
FEELING ADJECTIVE	Exited about his new skill.     Thoughtful of the result.	<ul> <li>Thoughtful of the questions.</li> <li>Hopeful of getting an efficient answer.</li> </ul>	Interested on the news.     Satisfied.
IMPROVEMENT OPPORTUNITIES	Better coding.     Better arithmetic and locagical capacity.	Better communication skills.     More professional relationships.	Better informed.

## Starting the design

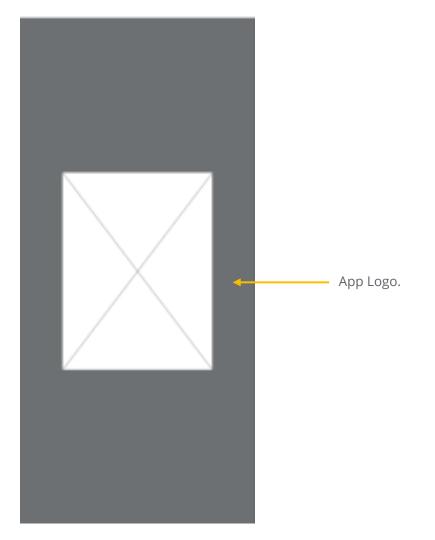
- Paper wireframes
- Digital wireframes
- Low-fidelity prototype
- Usability studies

#### Paper wireframes

Basic paper wireframe that shows the main screens and components of the first app version.



Mobile version Welcome screen



Promotional section.

Desktop version Home page

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Promotional section.

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Mobile version Home screen

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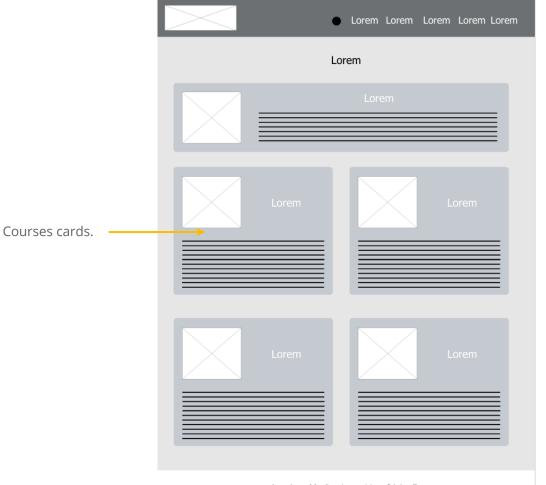
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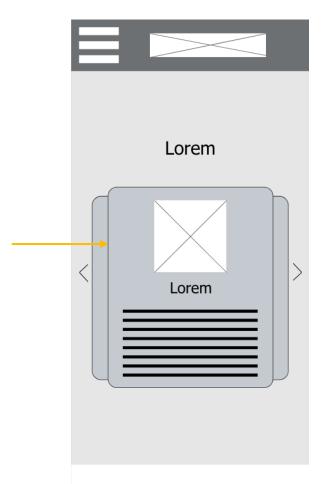


Desktop version Courses page



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Mobile version Courses screen



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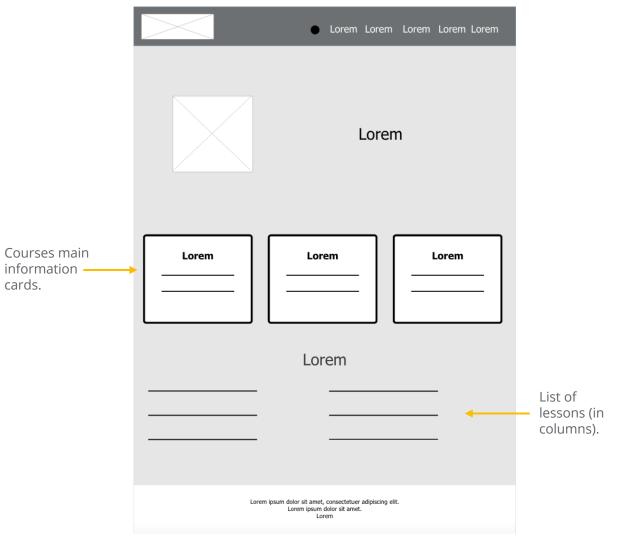
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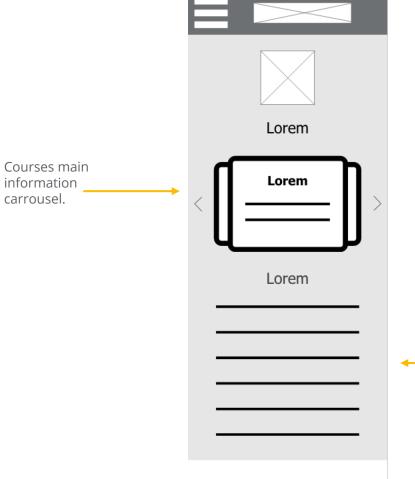
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information cards.

**Desktop version Course** page



Mobile version Course screen



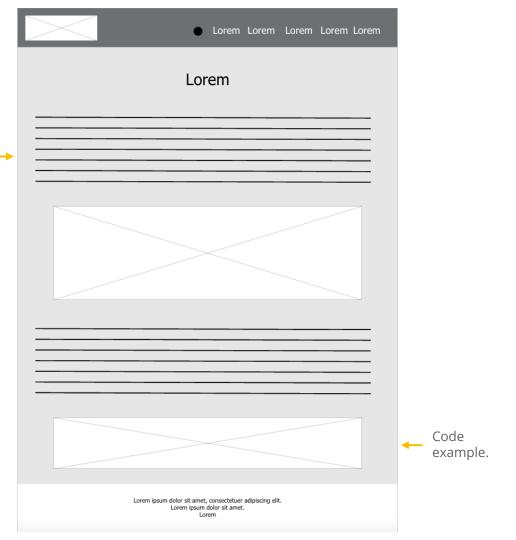
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List of lessons (in rows).

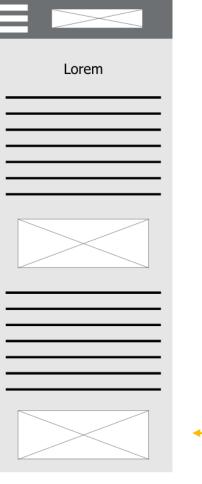
Explanation text.

Desktop version Lesson page



Explanation text.

Mobile version Lesson screen

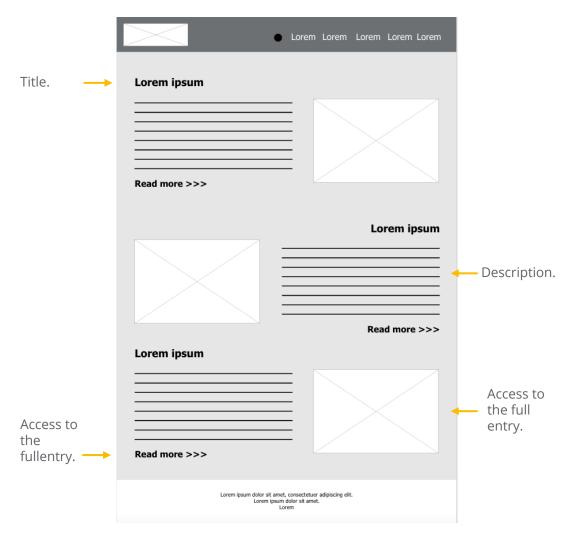


Code example.

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Desktop version Entries page



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Mobile version Entries screen

Desktop version Entry page

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Title.



\_\_\_\_\_ Text.

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Mobile version Entry screen

Desktop version About us

page

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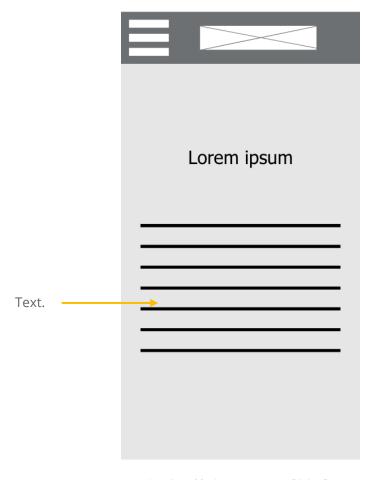
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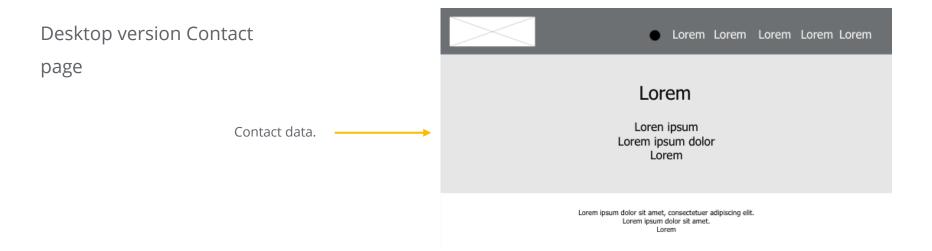
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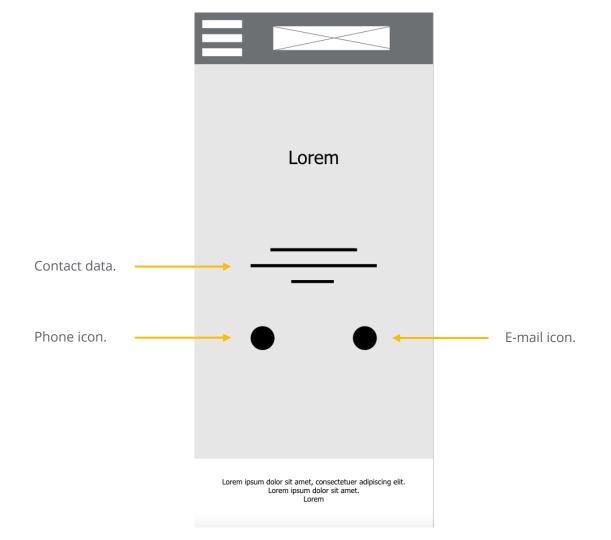
Mobile version About us screen



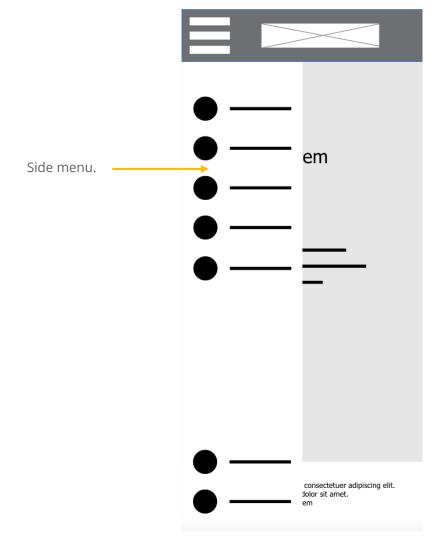
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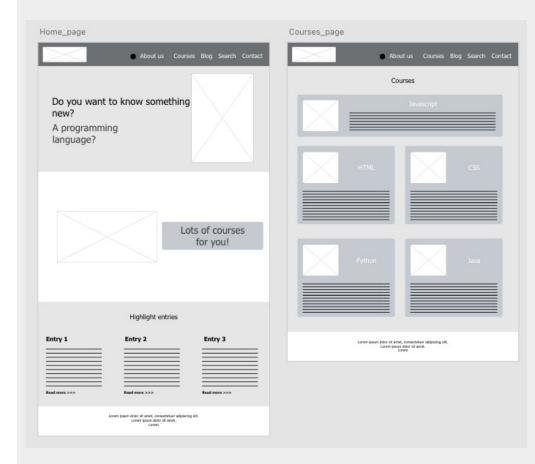


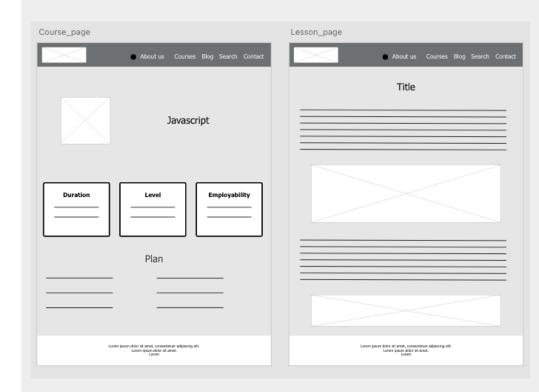
Mobile version Contact screen

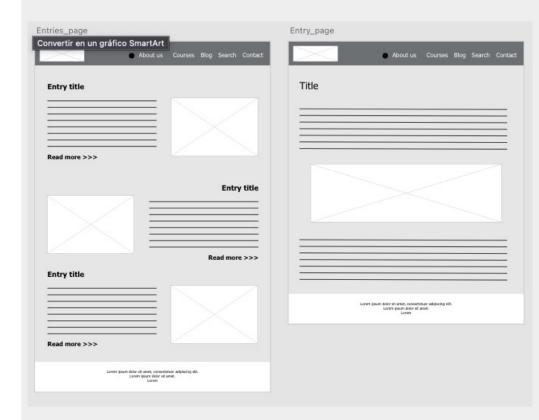


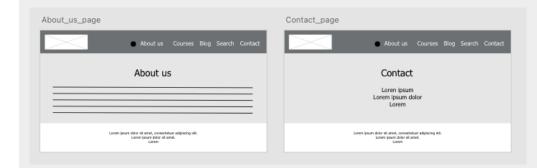
Mobile version Navigation menu

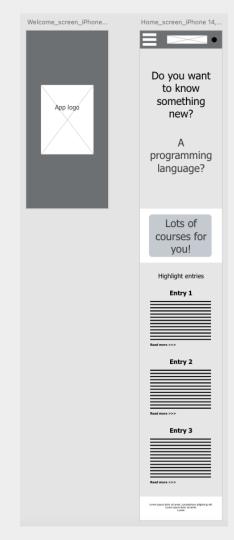


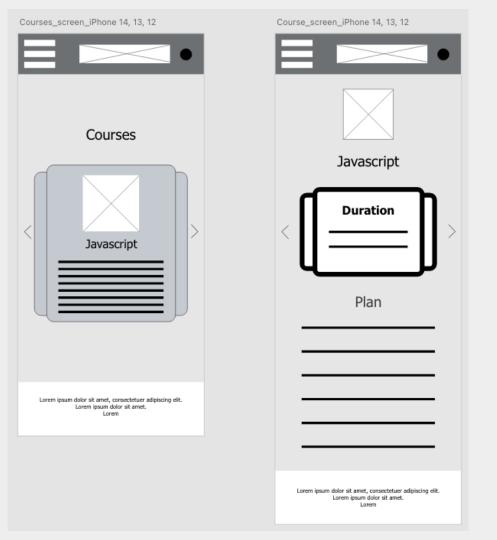












# Low-fidelity prototype

Mobile version Low-Fidelity prototype made with Adobe XD

Lesson_screen_iPhone 14, 13, 12	Entries_screen_iPhone 14, 13, 12
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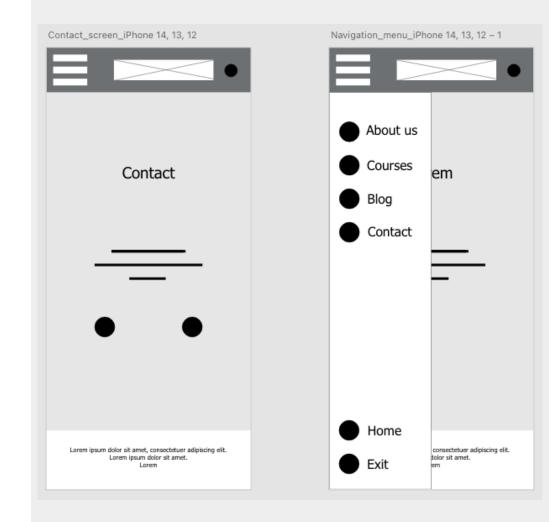
# Low-fidelity prototype

Mobile version Low-Fidelity prototype made with Adobe XD

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# Low-fidelity prototype

Mobile version Low-Fidelity prototype made with Adobe XD



# Usability study: findings

Two usability studies have conducted. Findings from the first study helped the designers to transform wireframes into mockups and the second from the low-fidelity prototype to high-fidelity prototype.

## **Round 1 findings**

- Open the app.
- 2 Look for a Javascript course.
- 3 Close the app.

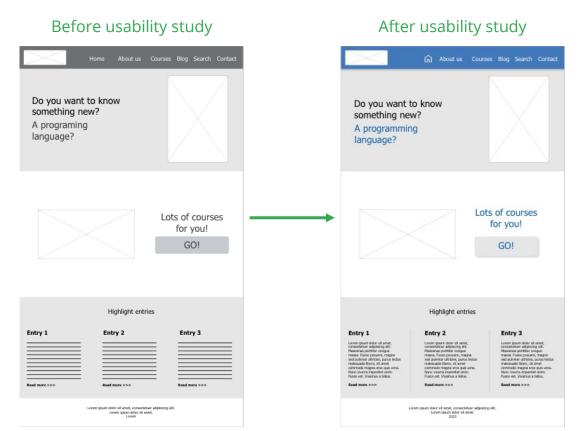
## **Round 2 findings**

- 1) Find how to write a 'Hello, World!'.
- 2 Find information about how to make a high fidelity prototype.
- 3 Find the contact details.

# Refining the design

- Mockups
- High-fidelity prototype
- Accessibility

Desktop version. Home page



Desktop version. Courses page

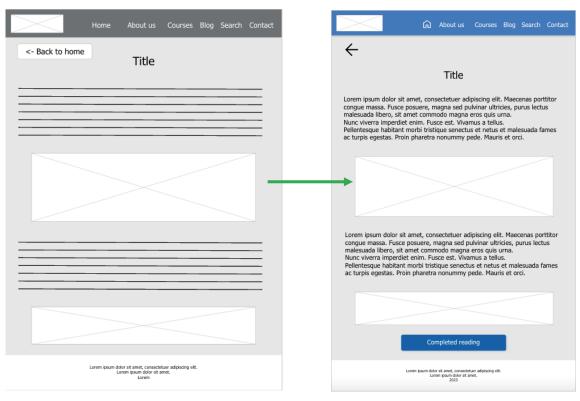


Desktop version. Course page



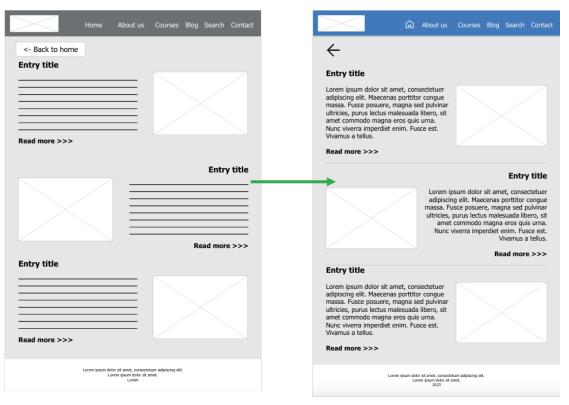
Desktop version. Lesson page

## Before usability study



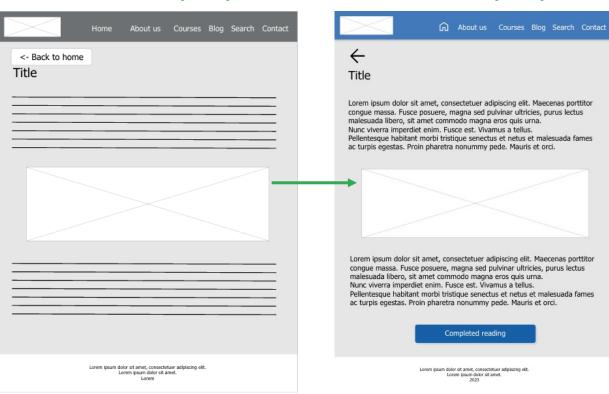
Desktop version. Entries page

### Before usability study



Desktop version. Entry page

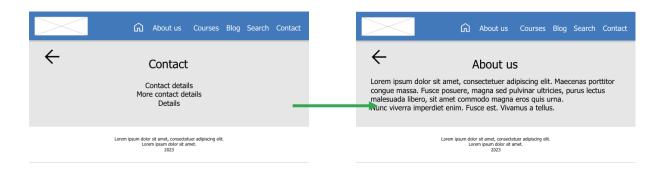
### Before usability study



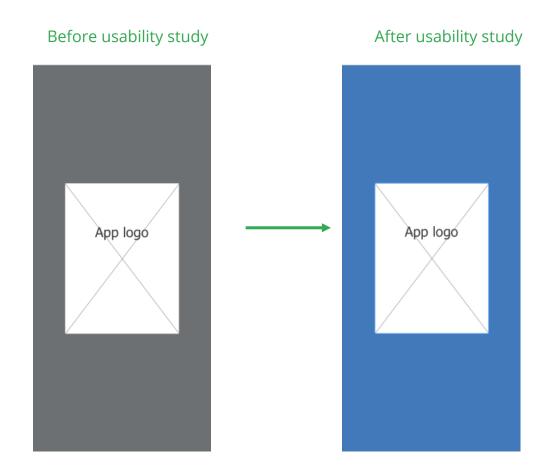
Before usability study

After usability study

Desktop version. About us page

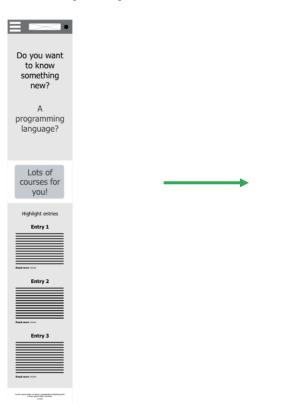


Mobile version. Welcome screen



Mobile version. Home screen

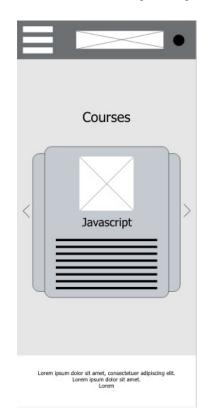
## Before usability study





Mobile version. Courses screen

## Before usability study



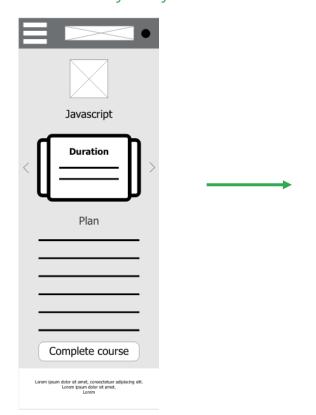
## After usability study



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Mobile version. Course screen

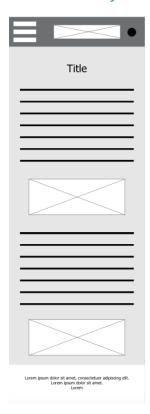
## Before usability study





Mobile version. Lesson screen

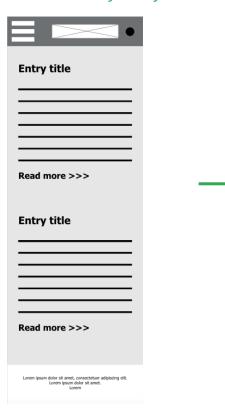
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Mobile version. Entries screen

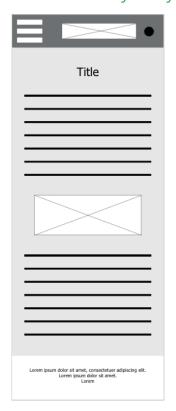
## Before usability study



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Mobile version. Entry screen

## Before usability study





Mobile version. About us screen

# Before usability study About us

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After usability study

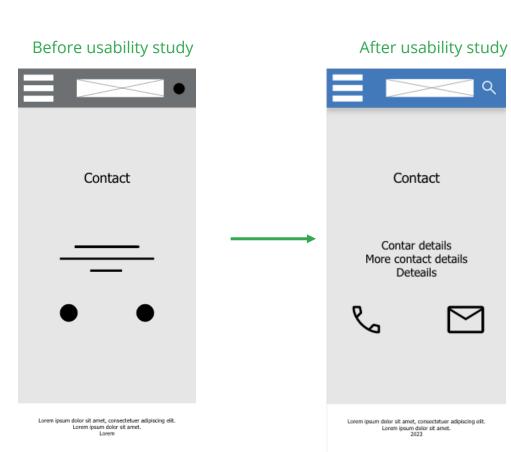


About us

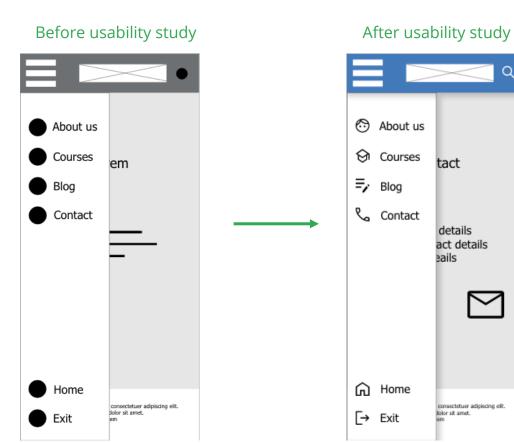
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Mobile version. Contact screen



Mobile version. Navigation



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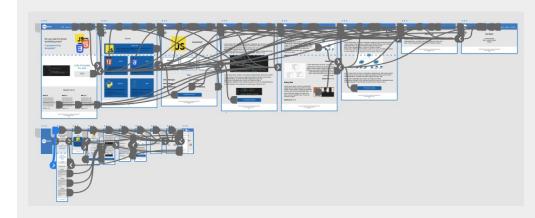
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High-fidelity prototype without flow



High-fidelity prototype with flow



Responsive welcome and onboarding page







Α programming language?

new?

Lots of courses for you!

GO!

### Highlight entries

Entry 1

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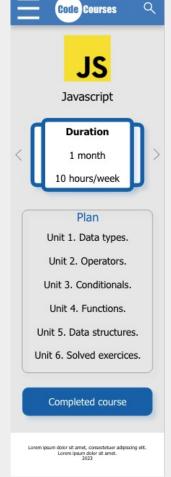
Responsive courses page



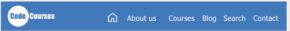


Responsive course page





Responsive lesson page





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21 let hello = 'Hello,';
22 let world = 'World!'
23
24 console.log(hello, world);
```

Completed reading

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21 let hello = 'Hello,';

22 let world = 'World!'

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24 console.log(hello, world);
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Responsive entries page





About us Courses Blog Search Contact



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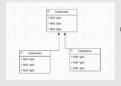
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About us Courses Blog Search Contact













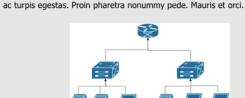








Responsive entry page



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Responsive about us page





### About us

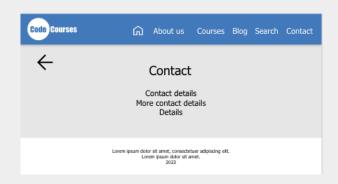
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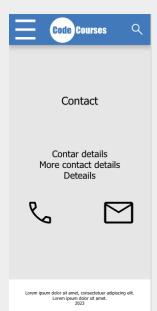
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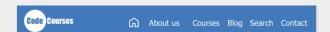
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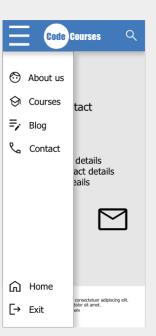
Responsive contact page





Responsive navigation menu





# Accessibility considerations

1

It is accessible to people who have vision impaired because of the color palette and the alt text.

2

Focal point, landmarks and heading have been emphasized in order to get a better accessibility. 3

Navigation in more comprehensible because of the icons that are included in the design.

# Going forward

- Takeaways
- Next steps

# Takeaways



## Impact:

The app makes users feel like the center of the code teaching, understanding their needs and offer solutions to them.



### What I learned:

While designing coding tutorials website, I have learned that UI design is not enough but it is also necessary to pay attention to a UX design because the most important is the users understanding.

# Next steps

1

To study the user experience with the app in order to identify new needs.

2

To study usability in order to detect possible problems that had not been considered and to solve them.

3

To identify new useful functionalities and start a new version of the app.

# Let's connect!



Thank you for your time reviewing this work on the code tutorials website. If you'd like to see more or get in touch, my contact information is provided below:

Email: xxx@gmail.com

**Phone:** 000 000 000

# Thank you!