

A3: User Interface Prototype

This user interfaces prototype(or horizontal prototype) has the following goals:

1. Help to identify and describe the user requirements, and raise new ones;
2. Preview and empirically test the user interface of the product to be developed;
3. Enable quick and multiple iterations on the design of the user interface.

This artefact includes three elements:

1. Overview of the interface elements and features common to all pages;
2. Overview of the information system from the viewpoint of the users(sitemap);
3. Identification and description of the main interactions with the system, organized as sequences of screens (storyboards).

The interface's descriptions are presented on the end of the document.

1. Interface and common features

Sweven is a web application based on HTML5, JavaScript, and CSS. The user interface was implemented using the [Bootstrap](#) framework.

Desktop

Mobile

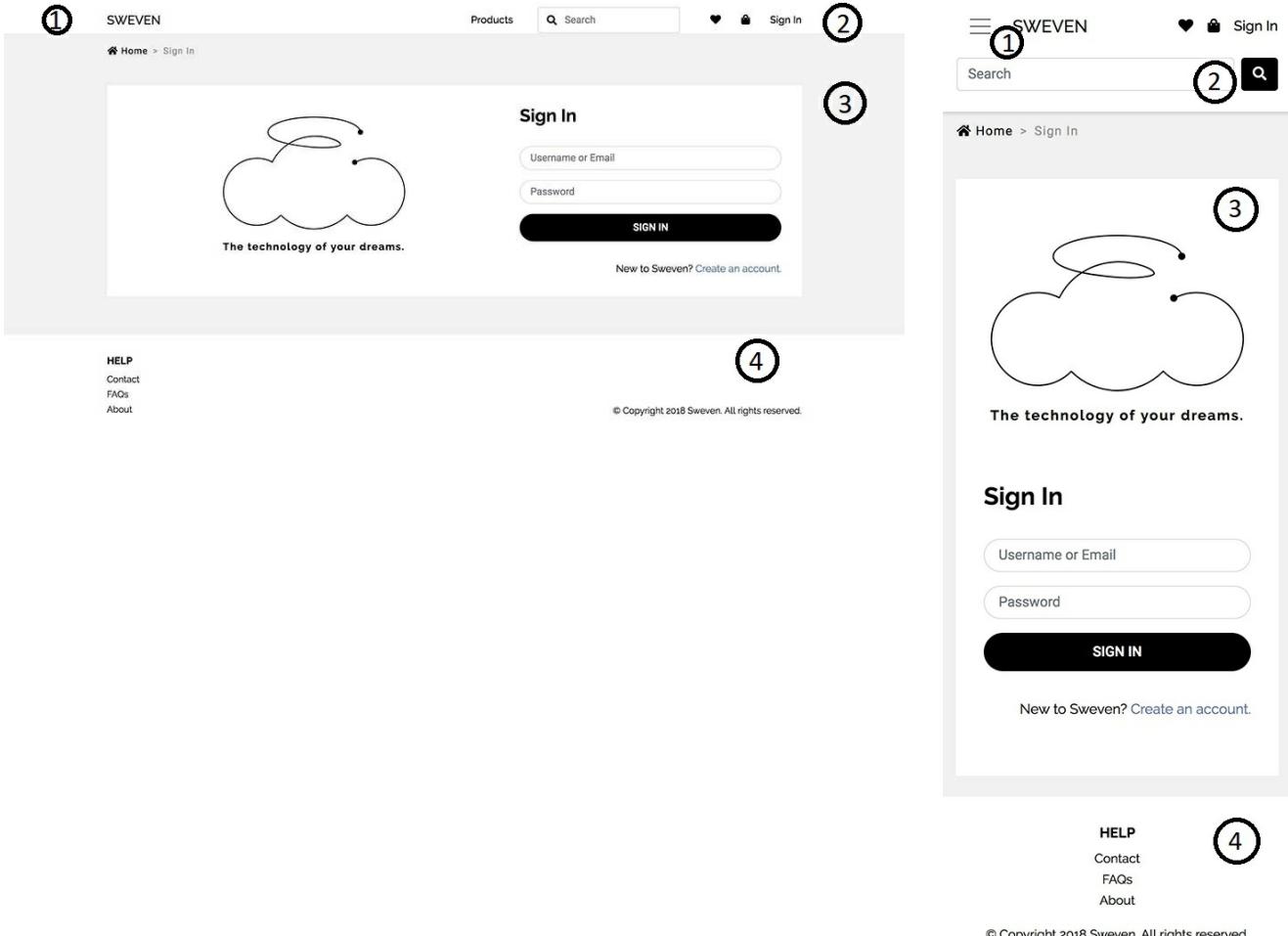


Figure 1: Interface's guidelines.

1. Shop name
2. Navbar
3. Page Content
4. Footer

In this figure some characteristics common to all pages are highlighted:

- The web design implemented is has a responsive flow which allows the web page layout to suit most screen sizes and resolutions, from a 15" laptop to a 4" smartphone.
- The common links and buttons to the several pages, mainly the ones placed in the navigation bar and footer, maintain their position to deliver a consistent user experience.
- When it comes to button contrast, the most important actions have an all-black color so it stands out, meanwhile the least important remain with a black stroke and white background.

2. Sitemap

A sitemap is a visual representation of the relationship between the different pages of a website that shows how all the information fits together.

The sitemap gives the project team an idea of how the website is going to be build by helping to clarify the information hierarchy.

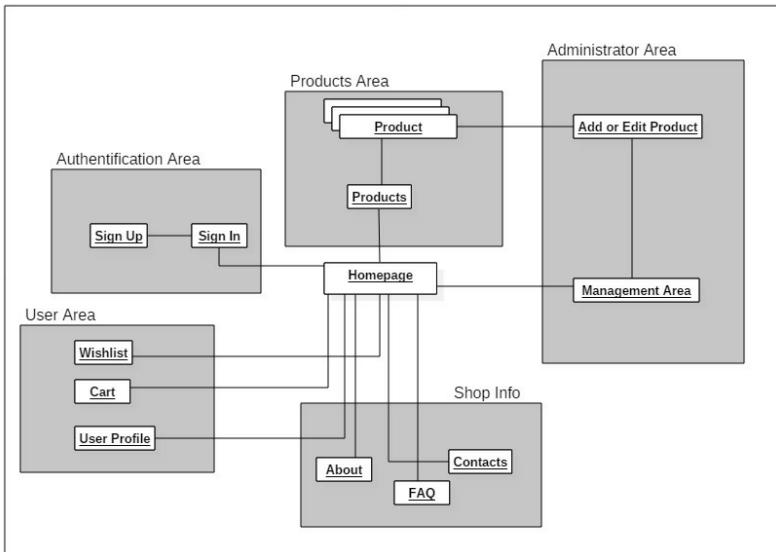
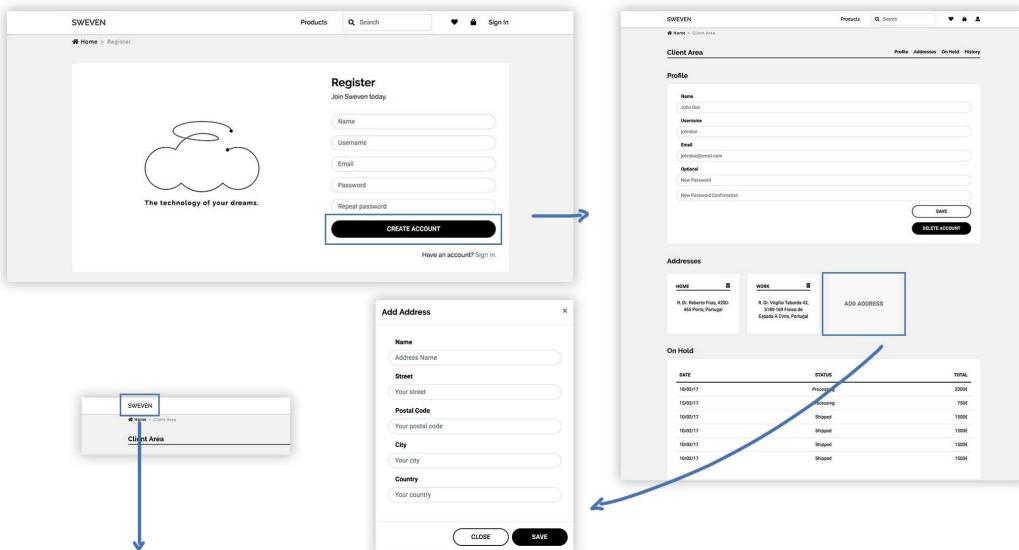


Figure 2: Sitemap.

3. Storyboards

Storyboards are presented to represent some of the main interactions with the system using a sequence of interfaces and explaining how navigation is done between them.



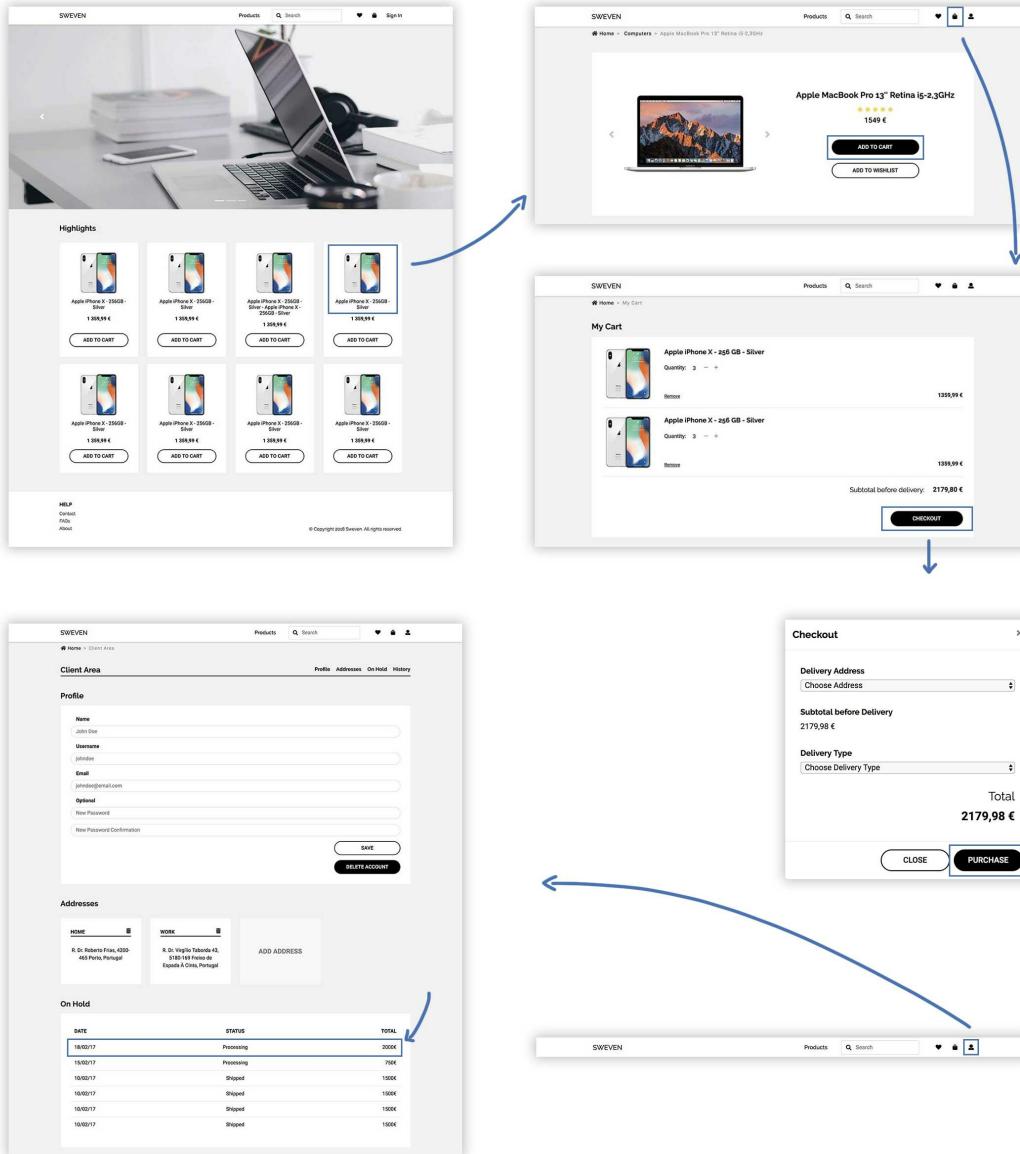


Figure 3: Wireflow centered on the user's action of adding an address and making a purchase.

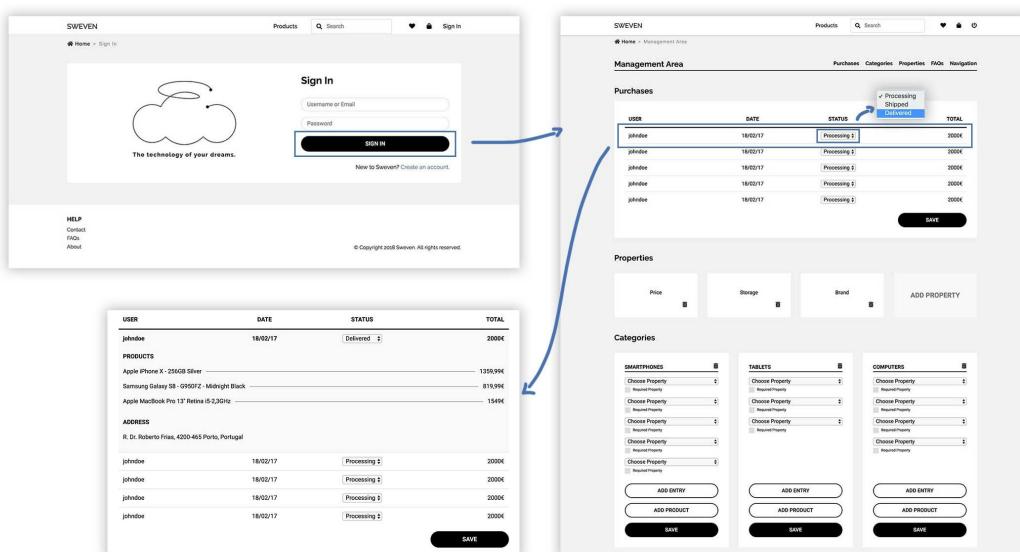


Figure 4: Wireflow centered on the administrator's action of updating a purchase's state.

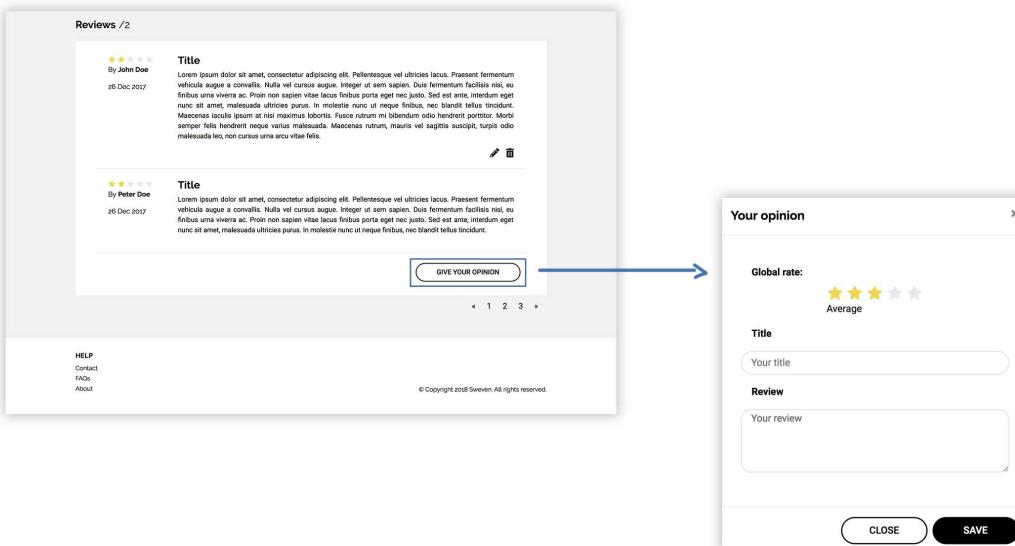
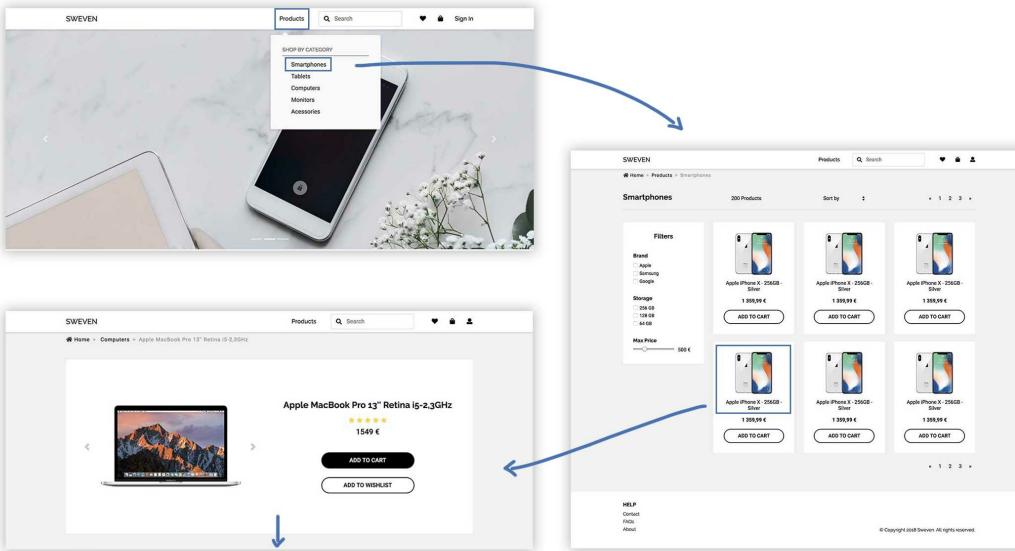


Figure 5: Wireflow centered on the user's action of making a review.

The wireflow diagram illustrates the process of adding a product. It starts with a 'Management Area' screen showing a table of purchases with columns for User, Date, Status, and Total. Below the table are sections for Properties (Price, Storage, Brand) and Categories (Smartphones, Tablets, Components). A blue arrow points from the 'ADD PRODUCT' button in the Categories section to a second screen titled 'Smartphone'. This second screen is a detailed form for adding a smartphone, divided into sections for Basic Information (Product Name, Price, Product Price, Quantity, Brand), Photos (with three file upload slots), Tech Specs (Storage, CPU, Sensors), and Location.

This wireflow diagram shows the product details page for an Apple MacBook Pro 13 Retina (i5-2.3GHz). The page includes a large image of the laptop, its name, price (1 549 €), and ratings (4 stars). Below the image are two 'EDIT PRODUCT' and 'DELETE PRODUCT' buttons. The page is further divided into sections for Tech Specs (Storage: 256GB, Chip: A11 Bionic chip with 64-bit architecture, Location: Assisted GPS, GLONASS, Galileo, and QZSS; Digital compass, Wi-Fi, Cellular, iBeacon microlocation; Power and Battery: Up to 21h (wireless), Up to 50% charge 30 minutes, Sensors: Face ID).

Figure 6: Wireflow centered on the administrator's action of adding a product.

4. Interfaces

Homepage

UI01: Homepage

Main website page where you can consult the last arrivals.

Desktop

Mobile

The screenshot shows the SWEVEN homepage with a header featuring the brand name, a search bar, and a sign-in button. Below the header is a large product image of a laptop and smartphone on a desk. A section titled "Highlights" displays eight iPhone X models in two rows of four. Each phone is shown from both front and back, with its price (1 359,99 €) and an "ADD TO CART" button below it. To the right of the main content area are three vertical columns, each containing a large iPhone X image, the product name ("Apple iPhone X - 256GB - Silver"), the price ("1 359,99 €"), and an "ADD TO CART" button.

Figure 7: Homepage

Products Area

UI02: Products

A page where you can see the list of the smartphones available and where is a filter that helps you narrow your search.

Figure 8: Products

UI03: Product

A page with the information and reviews of a specific product, which you can add to your cart or save to your wishlist.

Desktop

SWEVEN

Products

Search

Home > Computers > Apple MacBook Pro 13" Retina i5-2,3GHz

Apple MacBook Pro 13" Retina i5-2,3GHz

1549 €

ADD TO CART

ADD TO WISHLIST

Tech Specs

Storage	256GB
Chip	A11 Bionic chip with 64-bit architecture
Location	Assisted GPS, GLONASS, Galileo, and QZSS Digital compass Wi-Fi Cellular iBeacon microlocation
Power and Battery	Up to 21h (wireless) Up to 50% charge 30 minutes
Sensors	Face ID Barometer Three-axis gyro Accelerometer Proximity sensor Ambient light sensor

Reviews /2

By John Doe
26 Dec 2017

Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque vel ultricies lacus. Praesent fermentum vehicula augue a convallis. Nulla vel cursus augue. Integer ut sem sapien. Duis fermentum facilisis nisi, eu finibus urna viverra ac. Proin non sapien vitae lacus finibus porta eget nec justo. Sed est ante, interdum eget nunc sit amet, malesuada ultricies purus. In molestie nunc ut neque finibus, nec blandit tellus tincidunt. Maecenas facilius ipsum at nisl maximus lobortis. Fusce rutrum mi bibendum odio hendrerit porttitor. Morbi semper felis hendrerit neque varius malesuada. Maecenas rutrum, mauris vel sagittis suscipit, turpis odio malesuada leo, non cursus urna arcu vitae felis.

edit

Mobile

SWEVEN

Search

Home > Computers > Apple MacBook Pro 13" Retina i5-2,3GHz

Apple MacBook Pro 13"

Retina i5-2,3GHz

1549 €

ADD TO CART

ADD TO WISHLIST

Tech Specs

Storage	256GB
Chip	A11 Bionic chip with 64-bit architecture
Location	Assisted GPS, GLONASS, Galileo, and QZSS Digital compass Wi-Fi Cellular iBeacon microlocation
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edit

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By Peter Doe
26 Dec 2017

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GIVE YOUR OPINION

« 1 2 3 »

Ambient light sensor

Reviews /2 « 1 2 3 »

By John Doe
26 Dec 2017

Title
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-pencil icon | trash icon

Figure 9: Product

User Area

UI04: User Profile

The page where you can verify and update your personal information and also consult your purchase history.

Desktop

Mobile

SWEVEN

Search

Home > Client Area

Client Area

- Profile
- Addresses
- On Hold
- History

Profile

SWEVEN

Products

Home > Client Area

Client Area

- [Profile](#)
- [Addresses](#)
- [On Hold](#)
- [History](#)

Profile

Name: John Doe

Username: johndoe

Email: johndoe@email.com

Optional:

New Password:

New Password Confirmation:

SAVE **DELETE ACCOUNT**

Addresses

HOME	WORK
R. Dr. Roberto Frias, 4200-465 Porto, Portugal	R. Dr. Virgilio Taborda 43, 5180-169 Freixo de Espada À Cinta, Portugal

ADD ADDRESS

On Hold

DATE	STATUS	TOTAL
18/02/17	Processing	2000€
15/02/17	Processing	750€
10/02/17	Shipped	1500€

History

DATE	STATUS	TOTAL
10/02/17	Delivered	1500€

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Name
John Doe

Username
johndoe

Email
johndoe@email.com

Optional

New Password:

New Password Confirmation:

SAVE

DELETE ACCOUNT

Addresses

HOME

R. Dr. Roberto Frias, 4200-465 Porto, Portugal

WORK

R. Dr. Virgilio Taborda 43, 5180-169 Freixo de Espada À Cinta, Portugal

ADD ADDRESS

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History

DATE	STATUS	TOTAL
10/02/17	Delivered	1500€

History

DATE	STATUS	TOTAL
10/02/17	Delivered	1500€

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Figure 10: User Product

UI05: Wishlist

The page where you can see the products that you saved to check later.

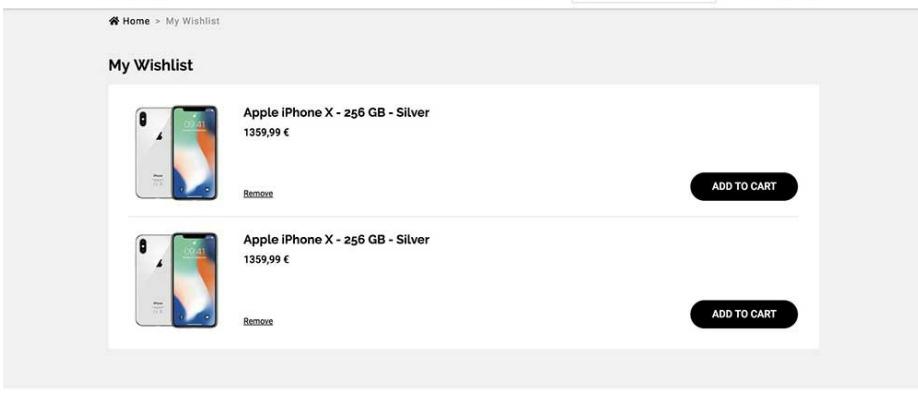
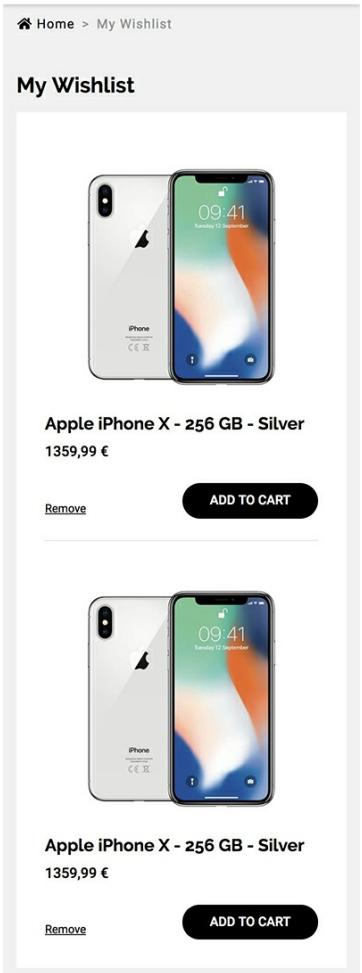
Desktop	Mobile
	

Figure 11: Wishlist

UI06: Cart

The page that shows you the subtotal and the products you wanted to buy.

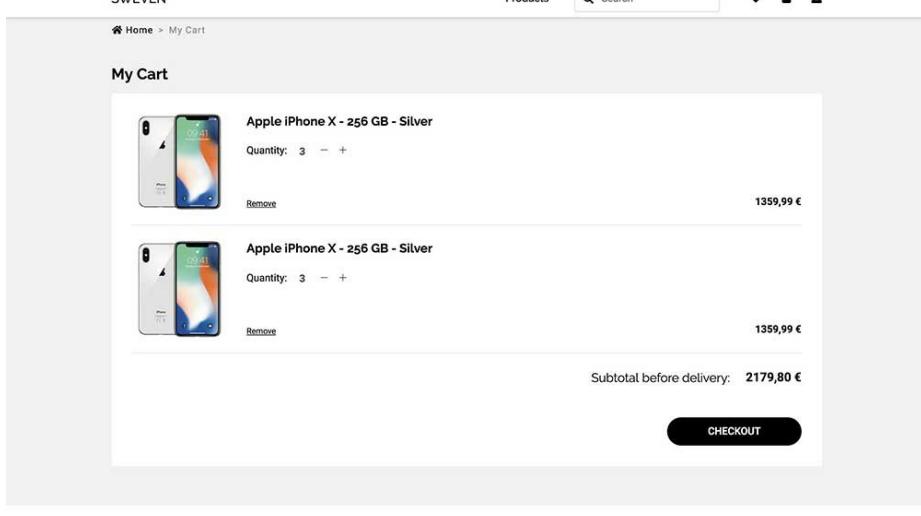
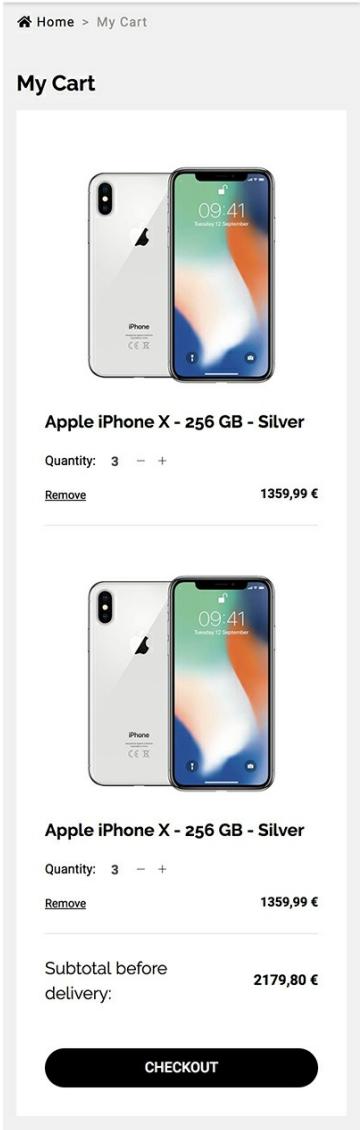
Desktop	Mobile
	

Figure 12: Cart

Administrator Area

UI07: Management Area

The page where the administrator can manage the website products and structure.

Desktop

Mobile

The image shows a side-by-side comparison of a desktop and a mobile interface for a management area. Both interfaces share a similar layout with a header, navigation bar, and main content area.

Header: Both interfaces include a logo ('SWEVEN'), a search bar, and user-specific icons (heart, lock, power).

Navigation: The desktop version has a standard horizontal navigation bar with links: Home, Management Area, Purchases, Categories, Properties, FAQs, and Navigation. The mobile version has a vertical navigation menu on the left with the same links.

Content Area:

- Purchases:** Both interfaces show a table of purchases with columns: USER, DATE, STATUS, and TOTAL. The mobile version includes a 'SAVE' button at the bottom of the table.
- Properties:** The mobile interface lists properties: Price, Storage, and Brand, each with a delete icon. It also features an 'ADD PROPERTY' button.
- Categories:** The mobile interface shows a section titled 'SMARTPHONES' with four dropdown menus labeled 'Choose Property'. Each dropdown has a note below it: 'Required Property'.

Table Data (Purchases):

USER	DATE	STATUS	TOTAL
johndoe	18/02/17	Processing ↴	2000€
johndoe	18/02/17	Processing ↴	2000€
johndoe	18/02/17	Processing ↴	2000€
johndoe	18/02/17	Processing ↴	2000€
johndoe	18/02/17	Processing ↴	2000€

Properties

Price
Storage
Brand
ADD PROPERTY

Categories

SMARTPHONES

- Choose Property

ADD ENTRY
ADD PRODUCT
SAVE

TABLETS

- Choose Property
- Choose Property
- Choose Property
- Choose Property

ADD ENTRY
ADD PRODUCT
SAVE

COMPUTERS

- Choose Property

ADD ENTRY
ADD PRODUCT
SAVE

ADD CATEGORY

FAQs

Q: Lorem ipsum dolor sit amet, consectetur adipiscing elit?

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque vel ultricies lacus. Praesent fermentum vehicula augue a convallis. Nulla vel cursus augue. Integer ut sem sapien. Duis fermentum facilisis nisi, eu finibus urna viverra ac. Proin non sapien vitae lacus finibus porta eget nec justo.

Q: Lorem ipsum dolor sit amet, consectetur adipiscing elit?

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Q: Lorem ipsum dolor sit amet, consectetur adipiscing elit?

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque vel ultricies lacus. Praesent fermentum vehicula augue a convallis. Nulla vel cursus augue. Integer ut sem sapien. Duis fermentum facilisis nisi, eu finibus urna viverra ac. Proin non sapien vitae lacus finibus porta eget nec justo.

ADD FAQ

Navigation

CATEGORIES

- Choose Category

ADD ENTRY
SAVE

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[FAQs](#)
[About](#)

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Choose Property

Required Property

ADD ENTRY
ADD PRODUCT
SAVE

TABLETS

Choose Property

Required Property

Choose Property

Required Property

Choose Property

Required Property

ADD ENTRY
ADD PRODUCT
SAVE

COMPUTERS

Choose Property

Required Property

Choose Property

Required Property

Choose Property

Required Property

Choose Property

Required Property

ADD ENTRY
ADD PRODUCT
SAVE

ADD CATEGORY

FAQs

Q: Lorem ipsum dolor sit amet, consectetur adipiscing elit?

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque vel ultricies lacus. Praesent fermentum vehicula augue a convallis. Nulla vel cursus augue. Integer ut sem sapien. Duis fermentum facilisis nisi, eu finibus urna viverra ac. Proin non sapien vitae lacus finibus porta eget nec justo.

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ADD CATEGORY

FAQs

Q: Lorem ipsum dolor sit amet, consectetur adipiscing elit?

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15/26

sapien vitae lacus finibus porta eget nec justo.



Q: Lorem ipsum dolor sit amet,
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[ADD FAQ](#)

Navigation

CATEGORIES

Choose Category ▾
Choose Category ▾
Choose Category ▾
Choose Category ▾
Choose Category ▾

[ADD ENTRY](#)

[SAVE](#)

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Figure 13: Management Area

UI08: Add/Edit Product

A page where the administrator can add a new item to the store or edit an existing one.

Desktop

Mobile

☰ SWEVEN



Search



Home > Management Area > Add Product

Smartphone

Basic Information

Name

Product Name

Price

Product Price

Quantity

Product Quantity

Brand

Product Brand

Photos



Choose file Browse
Upload



Choose file Browse
Upload

Choose file Browse
Upload

ADD PHOTO

Tech Specs

STORAGE *

CHIP

SENSORS *

Smartphone

Basic Information

Name

Product Name

Price

Product Price

Quantity

Product Quantity

Brand

Product Brand

Photos

[Choose file](#) [Browse](#)
[Upload](#)[Choose file](#) [Browse](#)
[Upload](#)[Choose file](#) [Browse](#)
[Upload](#)[ADD PHOTO](#)

Tech Specs

STORAGE *[ADD ENTRY](#)**CHIP**[ADD ENTRY](#)**SENSORS ***[ADD ENTRY](#)**LOCATION**

[ADD ENTRY](#)[SAVE](#)**HELP**[Contact](#)
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[ADD ENTRY](#)**LOCATION**

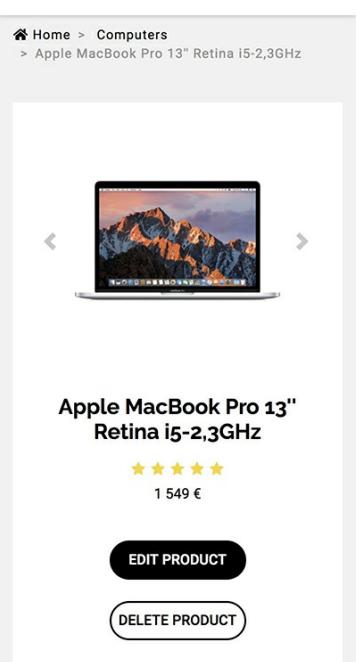
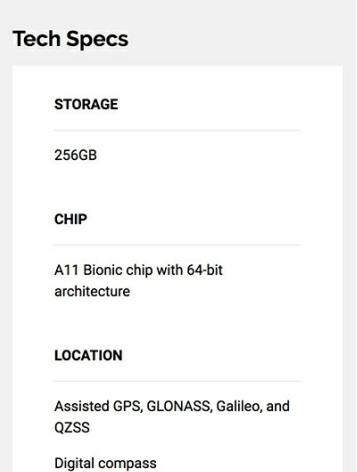
[ADD ENTRY](#)[SAVE](#)**HELP**[Contact](#)
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Figure 14: Add/Edit Product

UI09: Product seen as an Administrator

The page where the administrator can delete any offensive reviews of a specific product or the product itself.

Desktop	Mobile
	 <p>SWEVEN</p> <p>Home > Computers Apple MacBook Pro 13" Retina i5-2,3GHz</p> <p>Apple MacBook Pro 13" Retina i5-2,3GHz</p> <p>★★★★★ 1 549 €</p> <p>EDIT PRODUCT</p> <p>DELETE PRODUCT</p>
	 <p>Tech Specs</p> <p>STORAGE 256GB</p> <p>CHIP A11 Bionic chip with 64-bit architecture</p> <p>LOCATION Assisted GPS, GLONASS, Galileo, and QZSS Digital compass</p>

SWEVEN

Products

Home > Computers > Apple MacBook Pro 13" Retina i5-2,3GHz

Apple MacBook Pro 13" Retina i5-2,3GHz

1 549 €

[EDIT PRODUCT](#) [DELETE PRODUCT](#)

Tech Specs

STORAGE	256GB
CHIP	A11 Bionic chip with 64-bit architecture
LOCATION	Assisted GPS, GLONASS, Galileo, and QZSS Digital compass Wi-Fi Cellular iBeacon microlocation
POWER AND BATTERY	Up to 21h (wireless) Up to 50% charge 30 minutes
SENSORS	Face ID Barometer Three-axis gyro Accelerometer Proximity sensor Ambient light sensor

Reviews /2

By John Doe
26 Dec 2017

Title
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[DELETE REVIEW](#)

By John Doe
26 Dec 2017

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HELP

Contact
FAQs
About

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Wi-Fi
Cellular
iBeacon microlocation

POWER AND BATTERY

Up to 21h (wireless)
Up to 50% charge 30 minutes

SENSORS

Face ID
Barometer
Three-axis gyro
Accelerometer
Proximity sensor
Ambient light sensor

Reviews /2

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[DELETE REVIEW](#)

Figure 15: Product seen as an Administrator

Auhentication Area

UI10: Sign Up

The page where you can register yourself as a new user.

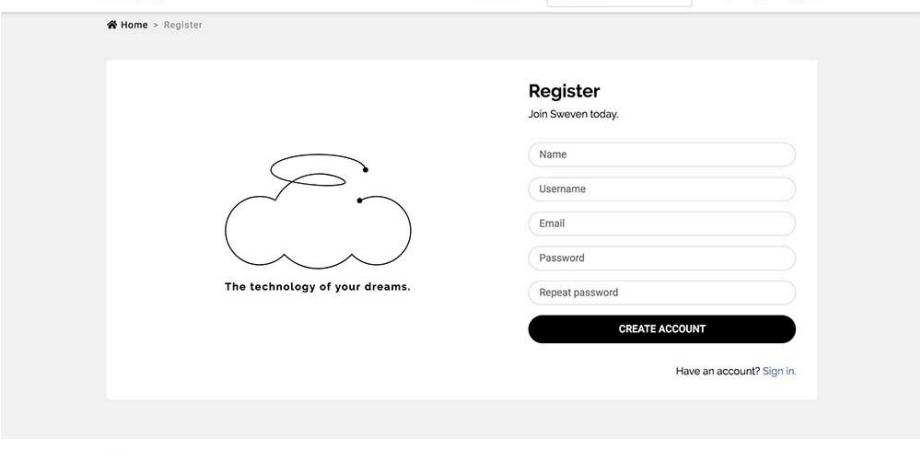
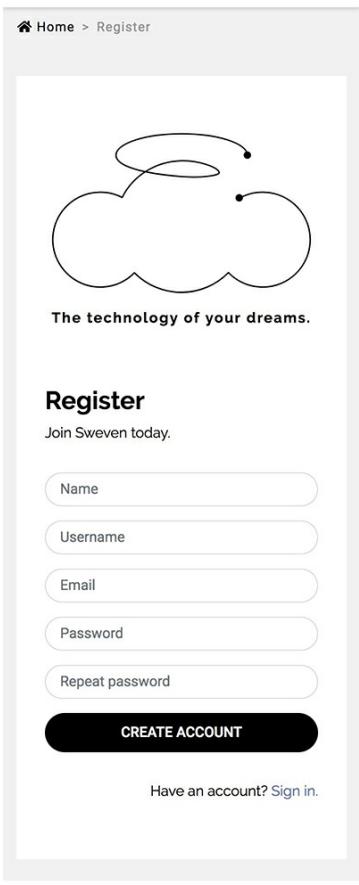
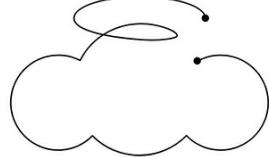
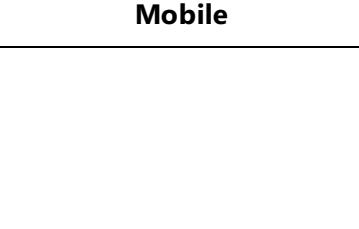
Desktop	Mobile
	
<p>SWEVEN</p> <p>Products <input type="text" value="Search"/> Search</p> <p>Home > Register</p> <p>Register Join Sweenen today.</p> <p>Name <input type="text"/> Username <input type="text"/> Email <input type="text"/> Password <input type="password"/> Repeat password <input type="password"/></p> <p>CREATE ACCOUNT</p> <p>Have an account? Sign in.</p> <p>HELP Contact FAQs About</p> <p>© Copyright 2018 Sweenen. All rights reserved.</p>	<p>☰ SWEVEN Heart Lock Sign In</p> <p><input type="text" value="Search"/> Search</p> <p>Home > Register</p> <p> The technology of your dreams.</p> <p>Register Join Sweenen today.</p> <p>Name <input type="text"/> Username <input type="text"/> Email <input type="text"/> Password <input type="password"/> Repeat password <input type="password"/></p> <p>CREATE ACCOUNT</p> <p>Have an account? Sign in.</p> <p>HELP Contact FAQs About</p> <p>© Copyright 2018 Sweenen. All rights reserved.</p>

Figure 16: Sign Up

UI11: Sign In

The page where you can authenticate yourself into the system.

Desktop	Mobile
	

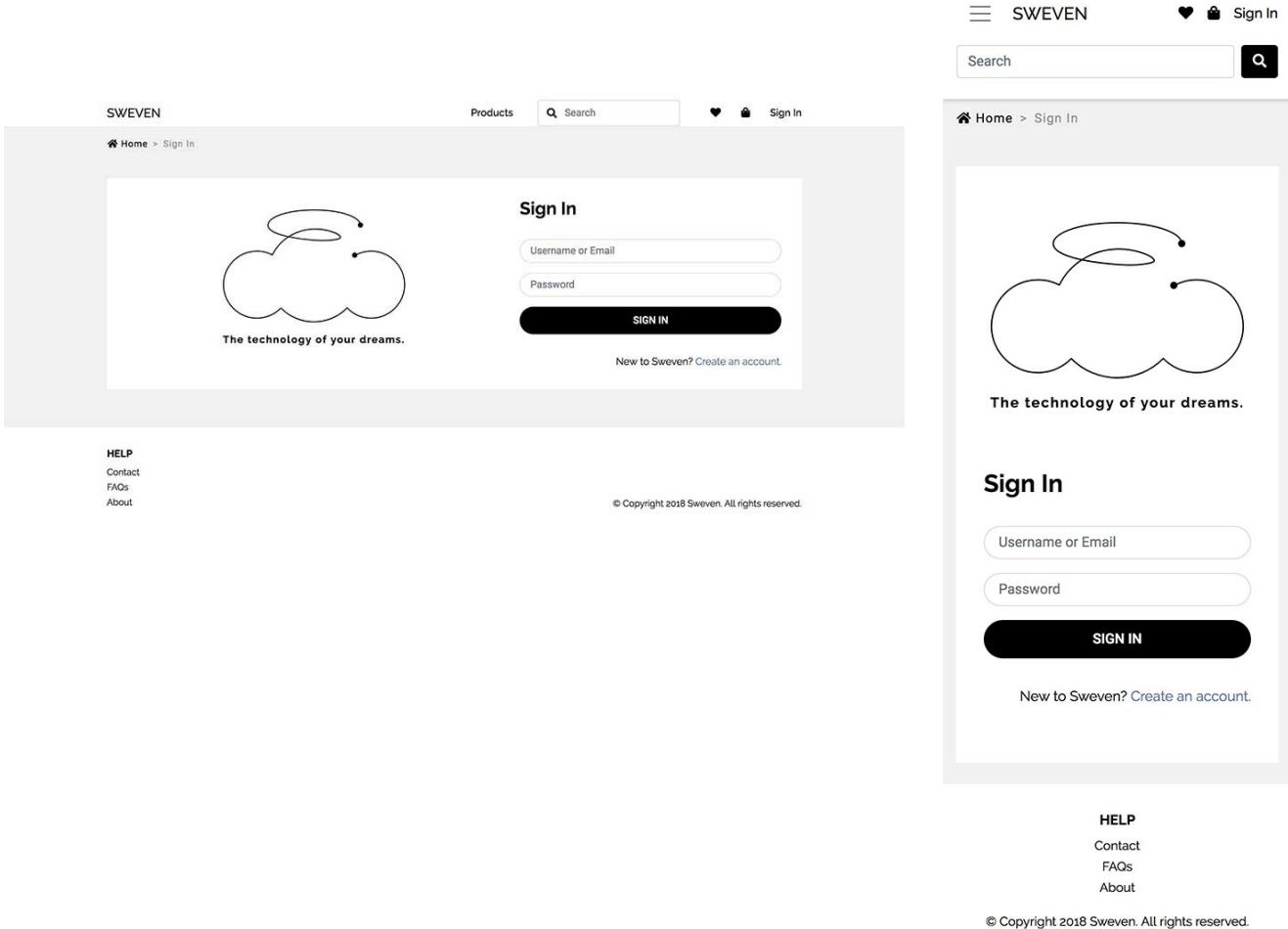


Figure 17: Sign In

Shop Info

UI12: Contacts

The page where you can send a message to the website corporation or get another way to contact.

Desktop

Mobile

The figure displays two versions of a contact form side-by-side. Both versions are for the brand "SWEVEN".

Desktop Version:

- Header:** Products, Search bar, Sign In.
- Breadcrumbs:** Home > Contact.
- Title:** Contact Us.
- Text:** We're happy to answer any questions you have or provide you an estimate. Just send us a message in the form below with any questions you may have.
- Form Fields:**
 - YOUR NAME (required)**: Full Name (text input).
 - YOUR EMAIL (required)**: Email (text input).
 - SUBJECT**: Subject (text input).
 - YOUR MESSAGE**: Explain your problems or concerns. (text area).
- Buttons:** SEND (black button).
- Help Links:** HELP (Contact, FAQs, About).
- Copyright:** © Copyright 2018 Sweenen. All rights reserved.

Mobile Version:

- Header:** SWEVEN, Search bar, Sign In.
- Breadcrumbs:** Home > Contact.
- Title:** Contact Us.
- Text:** We're happy to answer any questions you have or provide you an estimate. Just send us a message in the form below with any questions you may have.
- Form Fields:**
 - YOUR NAME (required)**: Full Name (text input).
 - YOUR EMAIL (required)**: Email (text input).
 - SUBJECT**: Subject (text input).
 - YOUR MESSAGE**: Explain your problems or concerns. (text area).
- Buttons:** SEND (black button).
- Help Links:** EMAIL (info@sweenen.com), PHONE (+315 222 222 222).
- Copyright:** © Copyright 2018 Sweenen. All rights reserved.

Figure 18: Contacts

UI13: FAQ

The page where you can find some of the most asked questions and presumably get the answer you are seeking.

Desktop

Mobile

The figure displays two versions of a website's FAQ page: a desktop version on the left and a mobile version on the right. Both versions have a header with a menu icon, the brand name 'SWEVEN', a heart icon, a lock icon, and a 'Sign In' button. A search bar is also present in the header.

Desktop Version:

- Breadcrumbs:** Home > FAQs
- Section Header:** Frequently Asked Questions
- Q: Question 1:** (with lorem ipsum text)
- Q: Question 2:** (with lorem ipsum text)
- Q: Question 3:** (with lorem ipsum text)
- Help Links:** Contact, FAQs, About
- Copyright:** © Copyright 2018 Sweenen. All rights reserved.

Mobile Version:

- Breadcrumbs:** Home > FAQs
- Section Header:** Frequently Asked Questions
- Q: Question 1:** (with lorem ipsum text)
- Q: Question 2:** (with lorem ipsum text)
- Q: Question 3:** (with lorem ipsum text)
- Help Links:** Contact, FAQs, About
- Copyright:** © Copyright 2018 Sweenen. All rights reserved.

Figure 19: FAQ

UI14: About

The page where you can find a bit more about the website corporation.

Desktop

Mobile

The screenshot shows the 'About' page of the Sweven website. The page has a clean, modern design with a light gray background. At the top, there's a navigation bar with the brand name 'SWEVEN' and a search bar. The main content area starts with a large, stylized drawing of a cloud with arrows, followed by the tagline 'The technology of your dreams.'. Below this is a large block of placeholder text (Lorem ipsum) that spans most of the page's height. At the very bottom, there's a footer section titled 'HELP' containing links to 'Contact', 'FAQs', and 'About', along with a copyright notice.

Figure 20: About

Revision History

Changes made to the first submission:

1. Made some changes to the navbar so that it looks more natural on smartphones (added a Hamburger icon).
2. Fixed some design problems such as the price of the product not being emphasized enough.
3. Added a hyperlink to the register page in the login page, the user no longer proceeds to the signup page from the navigation bar.
4. Made the footer always stick to the bottom independently of the screen size and resolution.
5. The sitemap no longer has the association between the Homepage and Product.
6. The sitemap no longer has Edit Product page since it was the same as the Add Product page.
7. Completed the storyboard of the user making a purchase.
8. Created a storyboard that enacts the administrator adding a new product.
9. Improved the method for adding an address.
10. Updated the pages screenshots so that they are no longer unnecessarily large and long.

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