

Appendix

Addition to the wireframes for FlyUX

Objectives	2
Overview of elements with hover effects	2
Accessibility	3
Form fields	4
Links	5
HTML 5 input types for touch devices	6
Reference credit/debit card digit pattern	8
Sitemap	9
User flow	10



Objectives

A prototype of FlyUX, created in Axure RP 9. The design is the product of research and ideation and sketching.

This prototype is created for desktop/laptop and is not responsive, but this document will also contain guidance with regards to behavior of UI elements on touch devices, such as laptops with touchscreen, iPhones, Android smartphones and tablets.

Prototype

<https://lvumsa.axshare.com/forside.html>

Location:

The design and payment options are targeted for European and some American credit and debit cards only.

Overview of elements with hover effects

This is a summary of the hover effects on the UI elements.

These effects have been added to meet the needs of users that are either colorblind or/and have other visual impairment.

Note: All hover effects do not work on touch devices.

Buttons:

Hover effects on buttons are color change, change of shape and larger text size, unless mentioned in the document.

Tabs:

Hover effects on tabs are color change, change of shape and larger text size .

Auto search (incremental search):

The hover over search results in list have a grey background.

Background color in boxes:

Background color changes when each search results is hovered.

Links:

Hover effect on links on a button or inside a box, have an increased font size.

Accessibility

General information about the design and Accessibility.

The current design is not compliant with Web Content Accessibility Guidelines (WCAG) 2.1. if the stakeholders and the management of FlyUX decide that the design should comply to the Web [Content Accessibility Guidelines \(WCAG\) 2.1](#), as required by law, some changes to the design of FlyUX will be necessary.

An example:

Hint text (placement text)

The hint text in forms does not comply with the rules of (WCAG) 2 with regards to e.g. navigation with tabs, vision impairment and not all text readers can read the hint text (placeholder text).

Furthermore, there are issues with cross over platform and the different interpretation of the code used coding hint text.

Current search field design:

From

Form design after revision:

From
Enter city, region or country

The hint text (placement text) is placed outside the form element.
Both label and the hint text is placed above the field.

Form fields

Error message

Validation occurs after the cursor left the field. If the validation fails, an error message is shown under the field. Depending on the width and the entered data, add an icon like this beside the error message. If there is no room for the icon leave the icon out, but keep the color and background color tone.

E-mail

 Error! Please, add @ in the e-mail address

Validation

In the case that the validation is successful, show micro animation. This only applies fields on the payment page, to validate card details.

Label



Form fields with hint text

When a field is selected the field is highlighted and raised and when the user starts typing the hint text is hidden.

The hint text (placeholder text) inside the field must be easy to read, not too light a grey. Check the contrast.

When the cursor exits the field, the hint text is visible again. The label is placed over the field.

Label

Hint text - smaller font - less contrast

Links

Prototype

<https://lvumsa.axshare.com/forside.html>

Web Content Accessibility Guidelines (WCAG) 2.1

<https://www.w3.org/TR/WCAG21/>

US government accessibility standards

<https://www.powermapper.com/blog/government-accessibility-standards/>

Baymard - input types touch keyboard

<https://baymard.com/labs/touch-keyboard-types>

Baymard - credit card patterns

<https://baymard.com/checkout-usability/credit-card-patterns>

HTML 5 input types for touch devices

E-mail field

Disable auto-correct and disable auto-capitalization. Invoke special @ keyboard.

```
<input type="email" autocapitalize="off" autocorrect="off" autocomplete="email">
```

Phone field

Invoke special phone keyboard. (Note: iOS doesn't allow input of special characters such as parenthesis and dash with the phone keyboard. Thus, never require phone numbers to be formatted with such characters.)

```
<input type="tel" autocorrect="off" autocomplete="tel">
```

Name field

Disable auto-correct. (Note: while it is recommended to use a single name field, if you split it across multiple fields, be sure to assign the appropriate autocomplete values.)

```
<input type="text" autocorrect="off" autocomplete="name">
```

Address line fields

Disable auto-correct. (Note: be sure to update the autocomplete attribute accordingly if using multiple address line fields.)

```
<input type="text" autocorrect="off" autocomplete="address-line1">
```

City

Disable auto-correct.

```
<input type="text" autocorrect="off" autocomplete="address-level2">
```

State

Disable auto-correct.

```
<input type="text" autocorrect="off" autocomplete="address-level1">
```

ZIP code field

Set input pattern to numeric input. (Note: Argentina, Canada, Netherlands, and UK, may use letters in their postal code. To support these, dynamically change the input pattern

depending on selected country. Also, for the numeric keyboard to be invoked on all Android devices, the field type must be changed to `type=number`, however, this may cause issues with leading zeroes in some browser versions – therefore if changing to `type=number`, make absolutely sure to handle these exceptions.)

```
<input type="text" inputmode="numeric" pattern="[0-9]*" novalidate autocorrect="off"
autocomplete="postal-code">
```

Credit card number field

Numeric keyboard. (Note: for the numeric keyboard to be invoked on all Android devices, the field type must be changed to `type=number`, however, this may cause issues with leading zeroes in some browser versions – therefore if changing to `type=number`, make absolutely sure to handle these exceptions.)

```
<input type="text" inputmode="numeric" pattern="[0-9]*" novalidate autocorrect="off"
autocomplete="cc-number">
```

Credit card security code field

Numeric keyboard. (Note: for the numeric keyboard to be invoked on all Android devices, the field type must be changed to `type=number`, however, this may cause issues with leading zeroes in some browser versions – therefore if changing to `type=number`, make absolutely sure to handle these exceptions.)

```
<input type="text" inputmode="numeric" pattern="[0-9]*" novalidate autocorrect="off"
autocomplete="cc-csc">
```

Quantity field

Semantic numeric keyboard.

```
<input type="number">
```

Date field

Date picker keyboard. (Note: you may want to implement an actual calendar date picker.)

```
<input type="date">
```

Submit button

For the 'Go' button on keyboard to work, avoid using `type=button`.

```
<input type="submit">
```

Reference:

<https://baymard.com/labs/touch-keyboard-types>

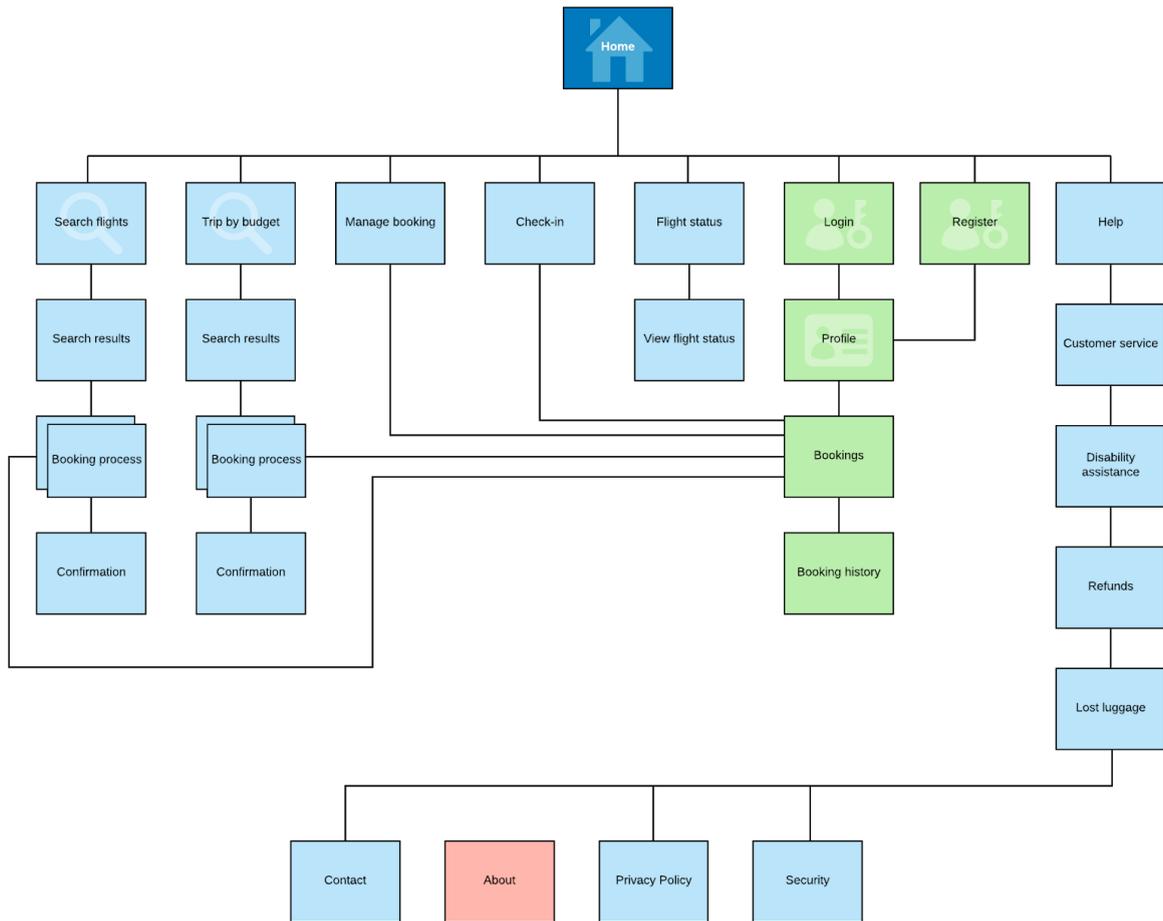
Reference credit/debit card digit pattern

Card type	Length	IIN Range (begins with)	Spacing pattern
Visa (incl. VPay)	13-19	4	#### #### (4-4-4-4)
Visa Electron	16	4026, 417500, 4405, 4508, 4844, 4913, 4917	#### #### (4-4-4-4)
MasterCard	16	51-55, 222100-272099	#### #### (4-4-4-4)
American Express	15	34, 37	#### ##### (4-6-5)
Diners Club International	14	300-305, 309, 36, 38-39	#### ##### (4-6-4)

Reference:

<https://baymard.com/checkout-usability/credit-card-patterns>

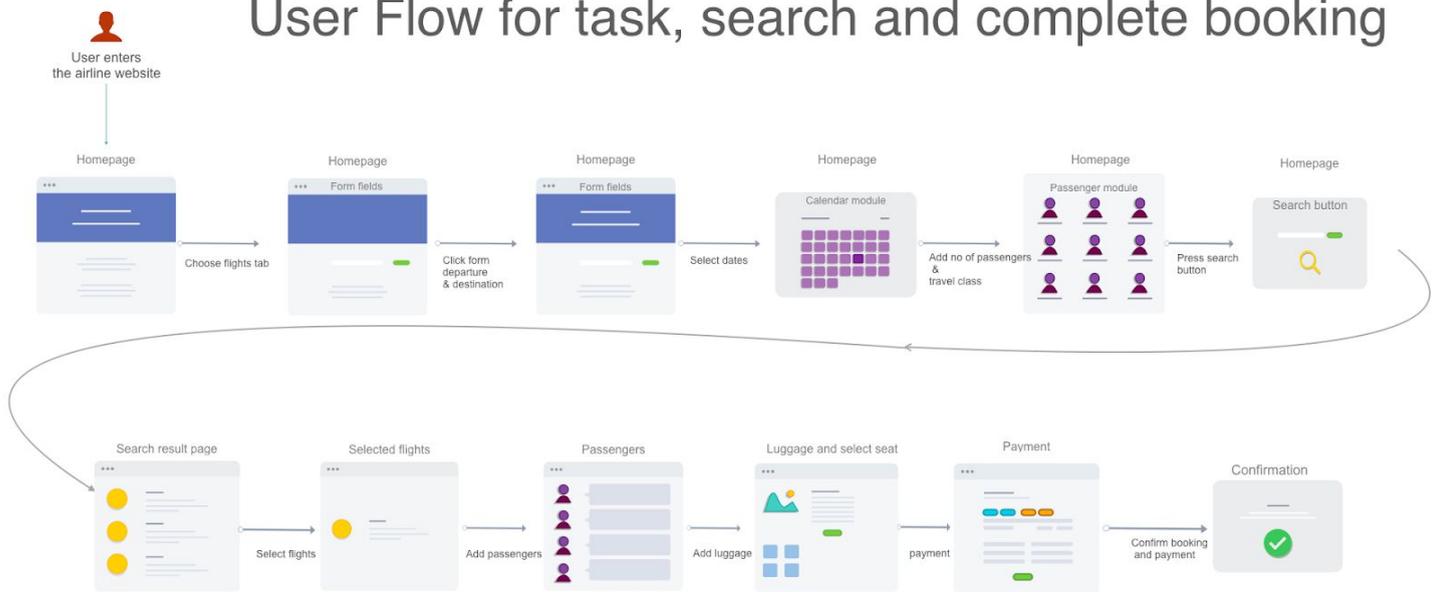
Sitemap



User flow

- task search flight and complete booking

User Flow for task, search and complete booking



Tasks: Search for a flight, complete booking and payment