

Design System Assignment

HousingAnywhere

— The assignment

Your assignment is to design a new component for date range selection, which would tackle both problems. For example:

- Better support the most common use-case on HousingAnywhere, which is making a booking for a duration of 4-9 months, not for a short-term rent.
- Make it easier to operate on the level of months, not specific dates.
- Allow some flexibility around move-in and move-out dates instead of forcing the tenant to select specific dates right away.

— Problem statements

- **Problem 1**

The component is better suited for short-term rentals: the user operates on a level of specific dates in the calendar, not on the level of months. If the potential tenant wants to rent a property for one year, they would need to click an arrow “→” icon 12 times after selecting a move-in date in order to get to the end of their intended rental period (and select a move-out date there).

- **Problem 2**

Unlike with short-term rentals, people who want to rent a property for several months are usually more flexible with their move-in and move-out dates. And our current component forces people to explicitly select specific dates in order to check the availability. From our interviews we know that the realistic scenario looks more like “I need a property for 6 months starting from mid September” rather than “I need a property from September 15 to March 15”.

RENTAL PERIOD

Move-in date

Select date

Move-out date

Select date

CHECK AVAILABILITY

How to book this property

141 successful bookings

8 listings

 Monthly prices are for reference only. Look at the Rent summary for the actual rent.

July 2022 < August 2022 >

€1,290

€1,290

Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
					1	2	3	1	2	3	4	5	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30	31				

CLEAR DATES

— Considerations

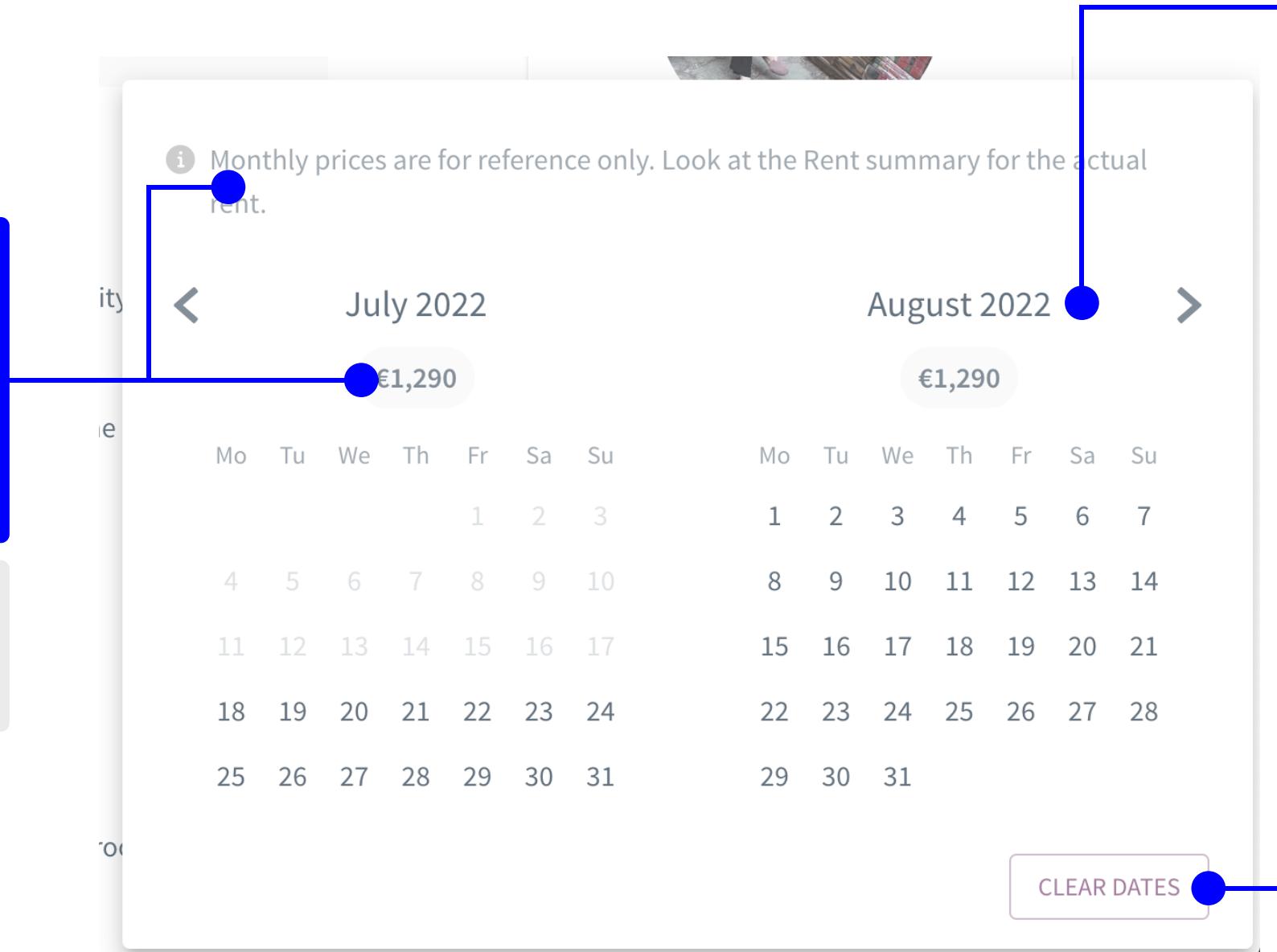
- You are not limited to using our current visual style or following any design patterns from the current implementation. Imagine, we are going for a full-scale redesign of our entire component library (including the colour scheme, typography, style of buttons, input fields, dropdowns etc.), and this component is a part of this new visual look and feel of HousingAnywhere. What might it look like in this case?
- As this is a Design System Designer role, the way your solution is built is important too. Therefore, the result of your test assignment should include source files for your solution. If you are using Figma — please share Edit access.

— My first impressions

Going through my initial feedback as a user who has seen the page and components for the first time.

Problem — The price in the calendar is confusing. Users could easily miss the tooltip as it is not immediately obvious they are related.

Idea — Make these two pieces of information more relatable.



***Problem** — There is no quick way of navigating through months.

Idea — Enable a quick selection for months.

Problem — The 'clear dates' button is in the location of a submit button and it isn't immediately obvious what it does. Could accidentally be pressed because of muscle memory.

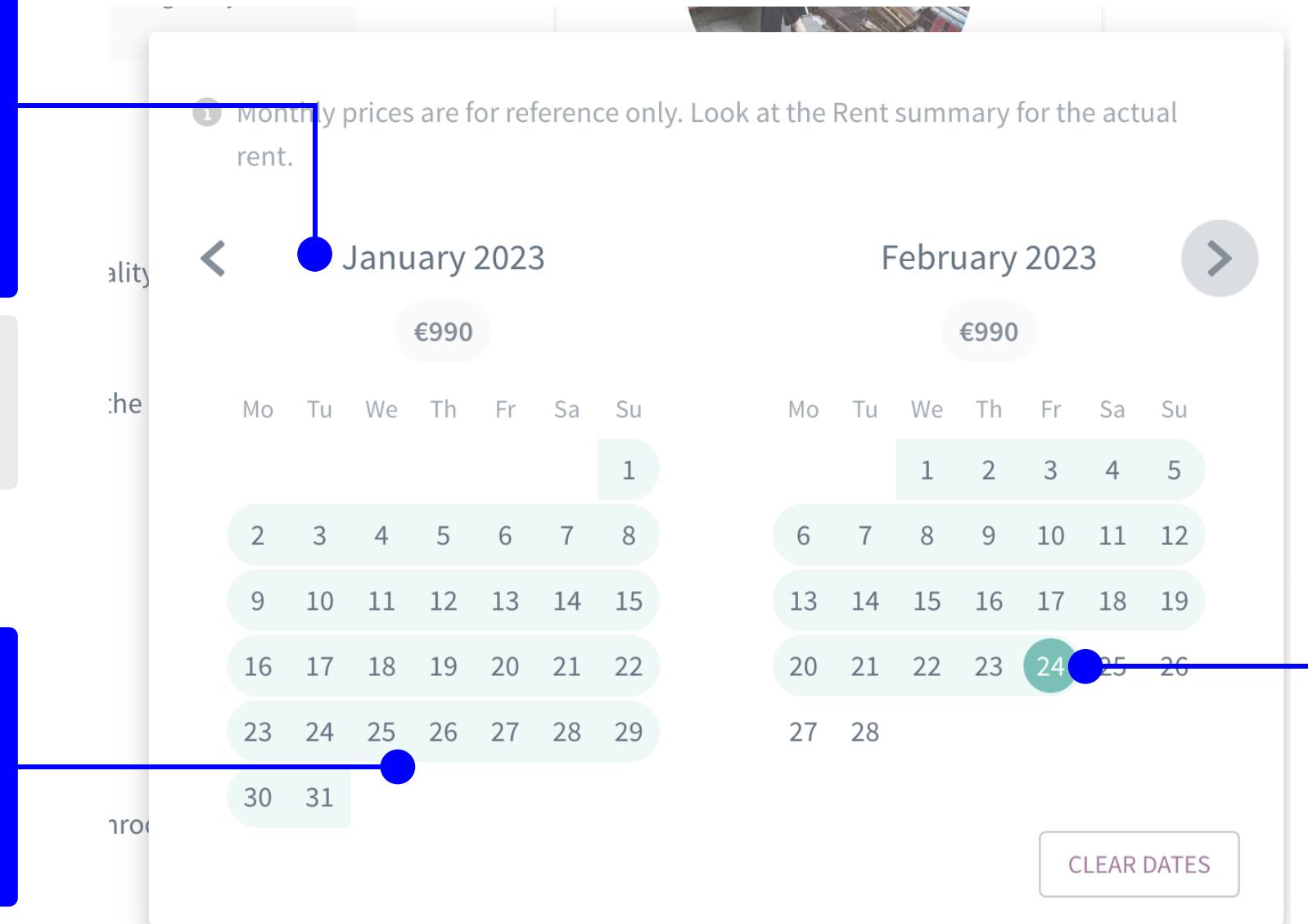
Idea — Stylise the component to make it obvious the action is to clear, e.g. using iconography.

Problem — Users are unable to see the starting date they already selected in this view, after paging through the months.

Idea — Show the already selected starting date.

***Problem** — There is no way for users to add flexibility to their date selection. Absolute dates are the only option with this UI.

Idea — Enable flexible start and end dates in the component.



Problem — Users are unable to see the price of their stay until they have closed the component. Selecting an end date also immediately dismisses this UI. Forces a back and forth between views.

Idea — Show the cost summary of the stay in the date picker view / do not dismiss the datepicker on end date selection.

Problem — Re-opening the end date always puts the selected month as the first month in the component (left side). It makes it less clear you have a range selected already.

Idea — Show the selected date range in all states of the component.



RENTAL PERIOD

Move-in date
22 Jul 2022

Move-out date
01 Feb 2023

 [View what you'll pay](#)

[CONTACT KATY](#)

[How to book this property](#)

PAY TO BOOK

First month's rent  €1290

One time service fee  €250

Total €1540

You will not be charged at this point.

 [141 successful bookings](#)

[8 listings](#)

RENTAL PERIOD

Move-in date
22 Jul 2022

Move-out date
24 Feb 2023

 [View what you'll pay](#)

[CONTACT KATY](#)

[How to book this property](#)

PAY TO BOOK

First month's rent  €1290

One time service fee  €250

Total €1540

You will not be charged at this point.

 [141 successful bookings](#)

[8 listings](#)

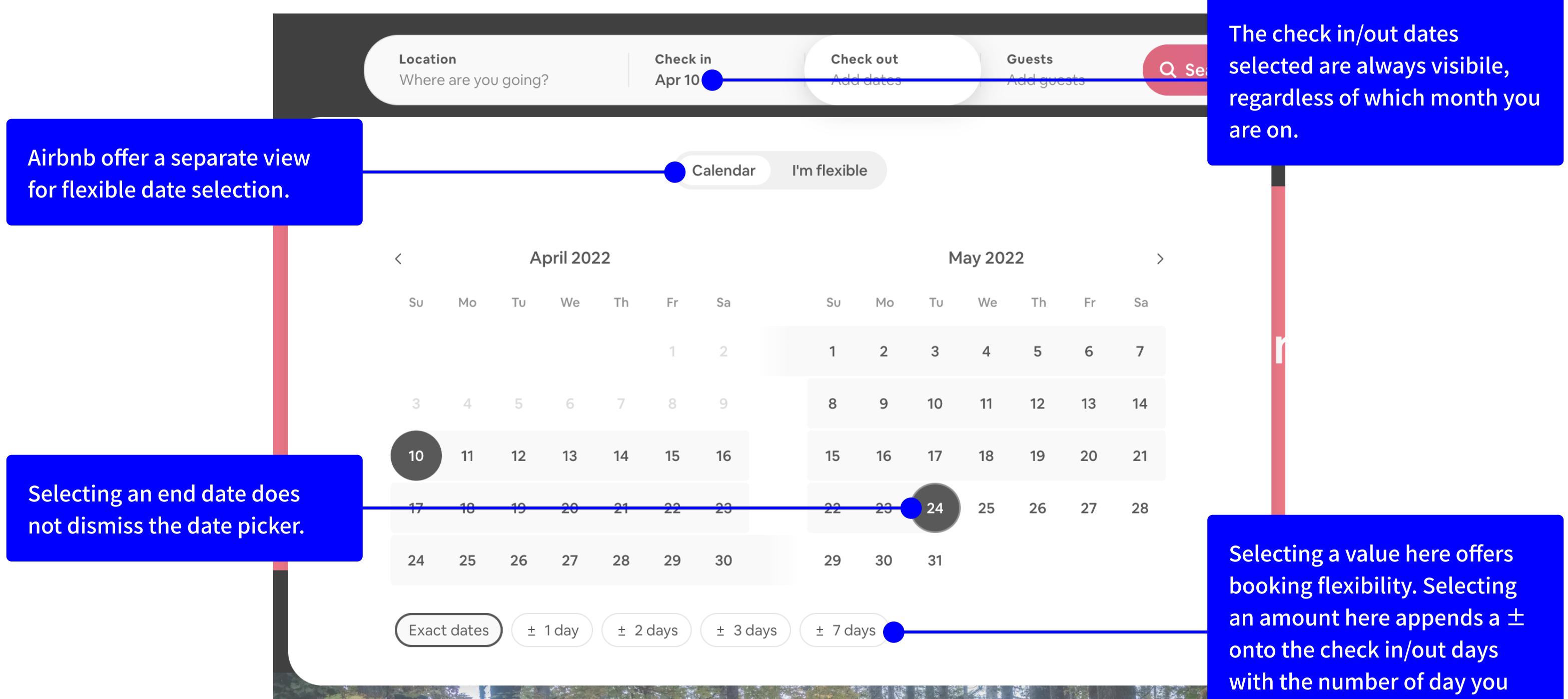
Problem — I initially thought the ‘pay to book’ price was the total price. I noticed this when changing end dates didn’t affect the price indicated here.

Idea — Show the cost summary of the stay in the date picker view, if possible.

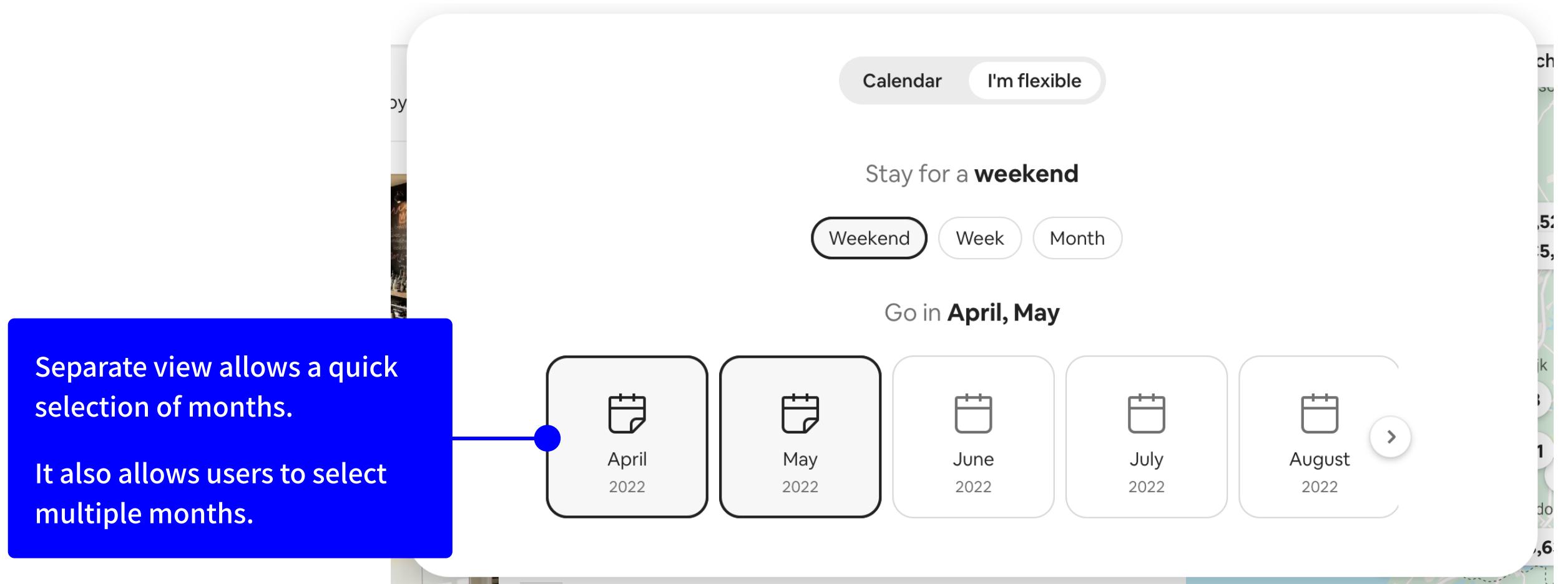
— Research

Investigating existing product user interfaces to see if any solutions exist to our stated problems.

— Airbnb (1/2)

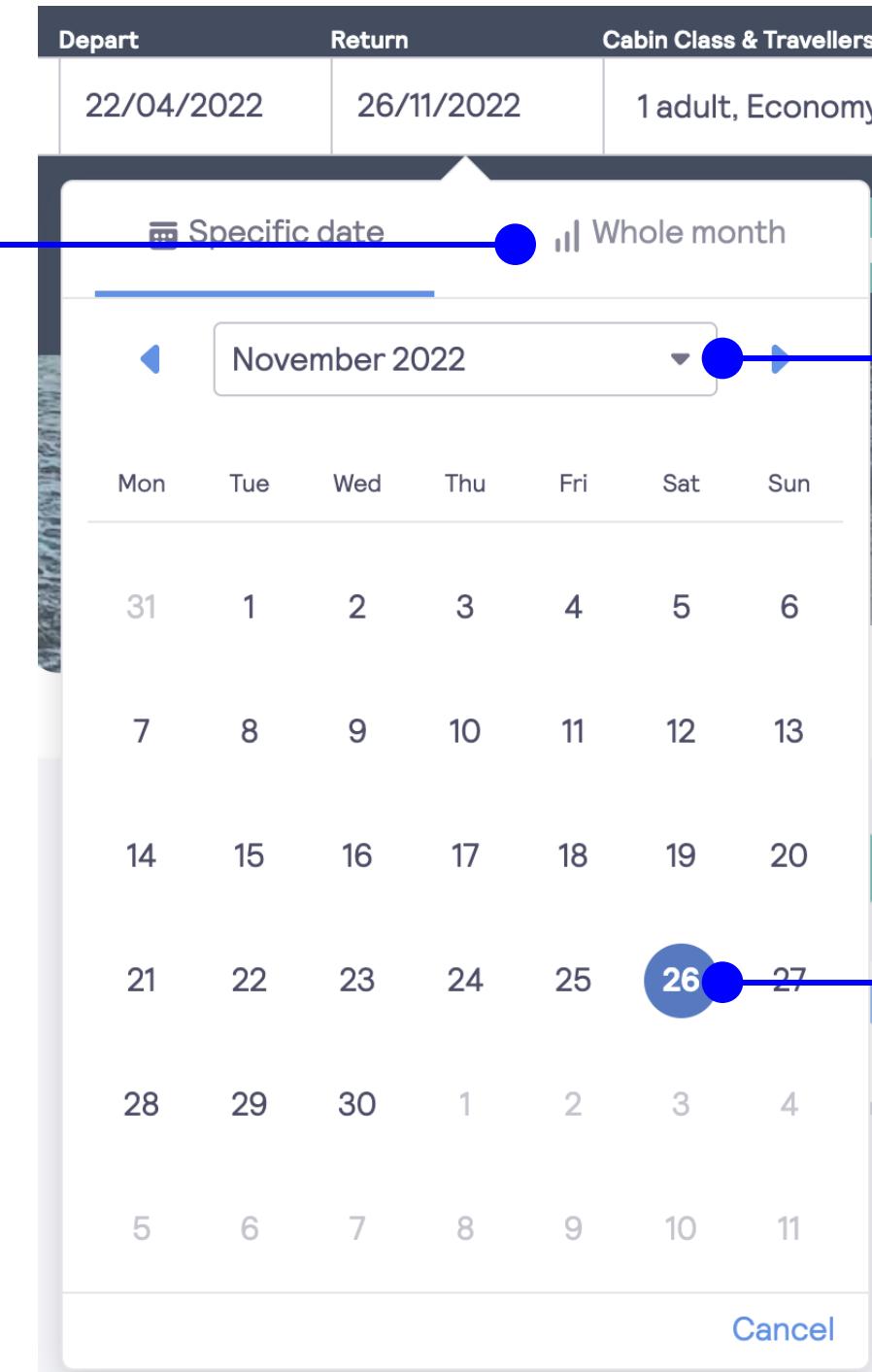


– Airbnb (2/2)



– Skyscanner (1/4)

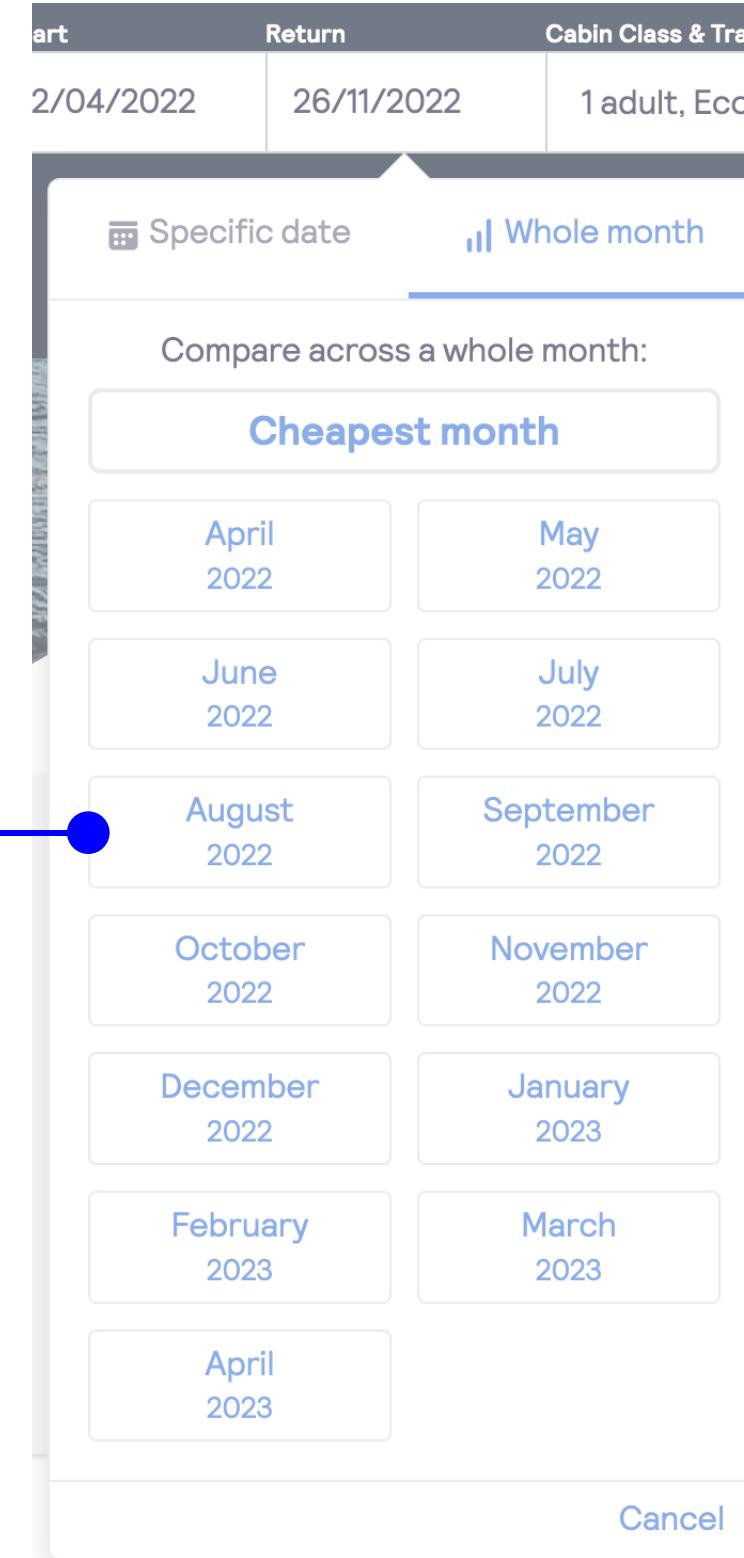
A separate view is available when working with longer term durations.



The UI enables a quick selection of months.

Users are forced to pick start and end date using two separate interactions with the component.

– Skyscanner (2/4)



The month selection is relatively limited.

– Skyscanner (3/4)

The view after selecting a fixed date range offers sliders for flexibility on time with that day.

Show whole month

Get Price Alerts

503 results

Stops

- Direct from € 244
- 1 stop from € 200
- 2+ stops from € 273

Best

€ 244

2h 28 (average)

Departure times

Outbound 00:00 - 23:59

Return 00:00 - 23:59

Journey duration 3 hours - 27 hours

airBaltic 09:50 AMS

airBaltic 07:40 TLL

KLM 09:50 AMS
Operated by airBaltic

airBaltic 07:40 TLL

KLM 09:50 AMS

– Skyscanner (4/4)

Monthly prices

Estimated lowest prices only. Found in the last 4 days.

Flights Hotels NEW

Direct flights only

Depart ◀ May 2022 ▶ Return ◀ May 2022 ▶

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
25	26	27	28	29	30	1	25	26	27	28	29	30	1
2	3	4	5	6	7	8	2	3	4	5	6	7	8
9	10	11	12	13	14	15	9	10	11	12	13	14	15
16	17	18	19	20	21	22	16	17	18	19	20	21	22
23	24	25	26	27	28	29	23	24	25	26	27	28	29
30	31	1	2	3	4	5	30	31	1	2	3	4	5

€ 52

€ 56 € 35 € 29 € 31 € 31 € 31 € 29

€ 48 € 50 € 74 € 67 € 52

€ 28 € 33 € 33 € 29 - - € 65

€ 29 € 29 € 29 € 29 € 31 € 31 € 32

- - - - - - -

€ 29 € 29 € 29 € 38 € 31 € 31 € 30

- - - - - - -

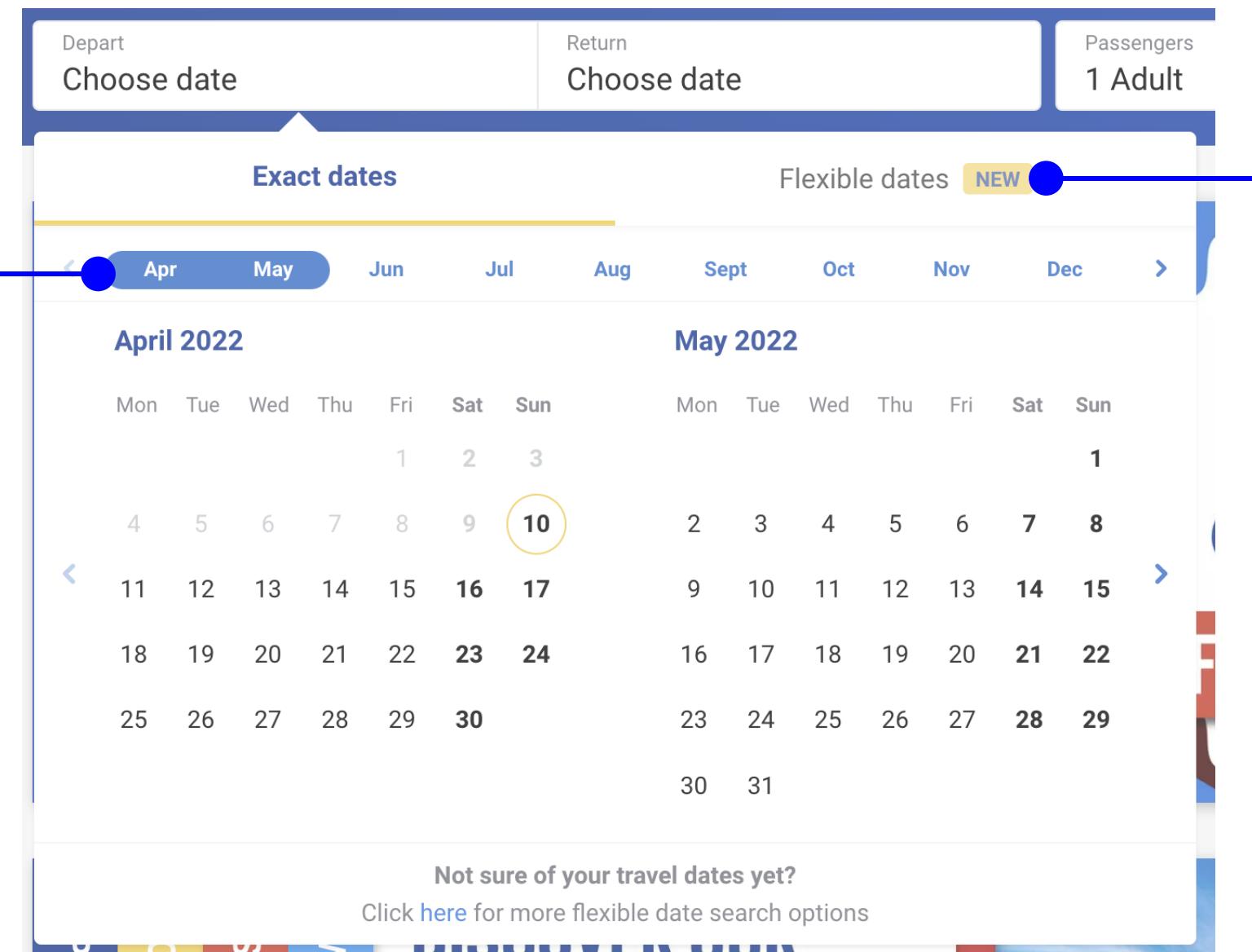
€ 30 -

After selecting an entire month, the UI shows the cheapest price available on that date within the same view.

The cheapest prices are also highlighted as green.

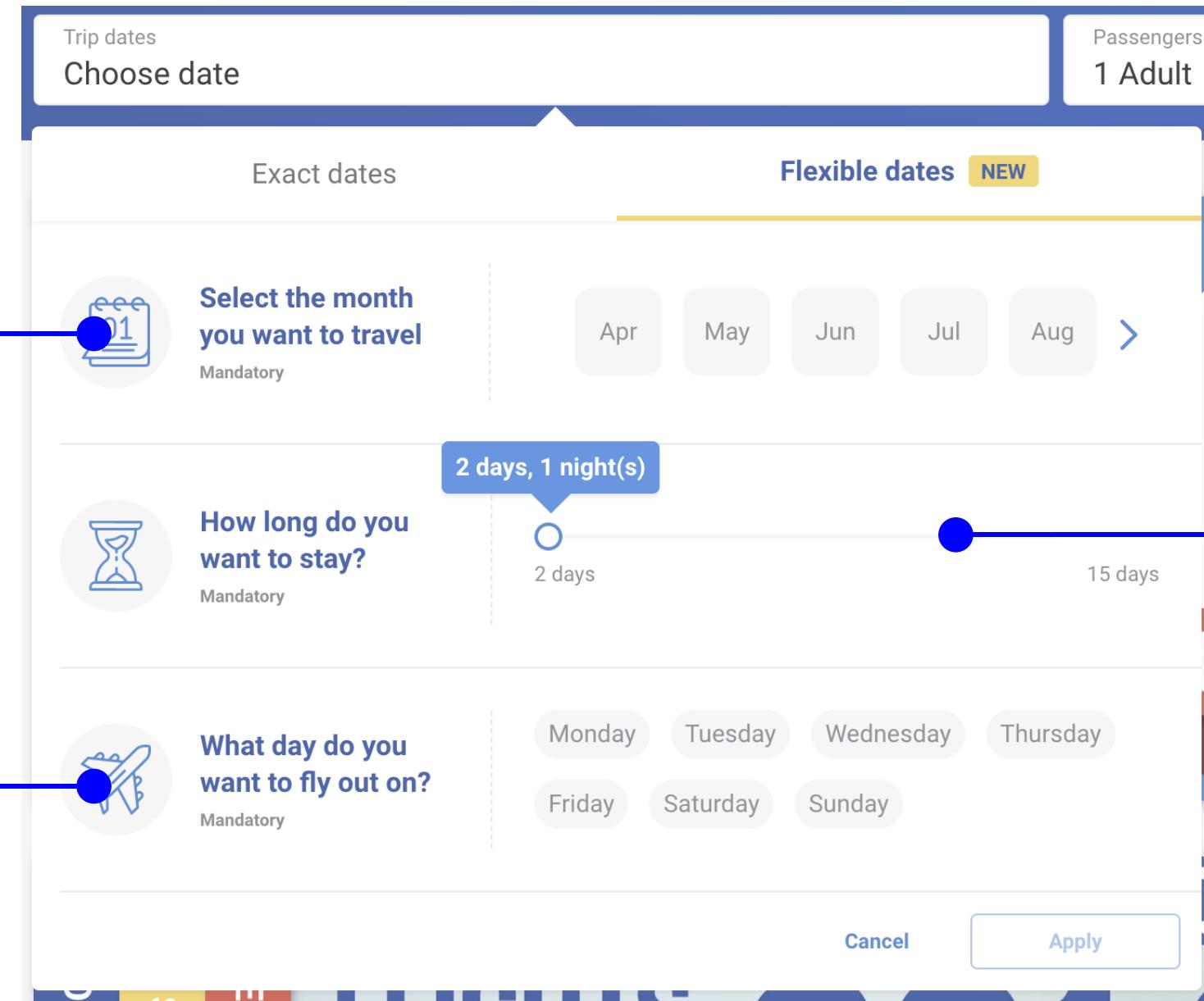
– Ryanair (1/2)

The UI enables a quick selection of months.



Skyscanner offer a separate view for flexible date selection.

– Ryanair (2/2)



Ryanair adopt a wizard like approach in their flexible date selection view.

The flexible date selection has some absolute properties, where users might lack on flexibility.

A slider component is used for a wide range of flexible dates.

– Kayak (1/3)

The screenshot shows the Kayak flight search interface. At the top, there are departure and return date fields. The departure field is set to 05/10/2022 with a ± 1 day range, and the return field is set to 05/17/2022 with an exact range. Below these fields is a calendar grid for May and June 2022. The calendar allows users to switch between 'Weekend' and 'Month' views. In the month view, specific dates are color-coded: green for \$234+, orange for \$307+, and red for \$454+. A blue callout points to the date 17 in May, which is highlighted in blue and selected. Another blue callout points to the price estimates at the bottom of the calendar. A third blue callout points to the date 15 in June, which is also highlighted in blue. A fourth blue callout points to the text 'Selected dates are always in view, including flexibility variables selected.' located in the top right corner.

Kayak enable date flexibility on both start and end dates.

Views have been separated for different trip durations.

Selected dates are always in view, including flexibility variables selected.

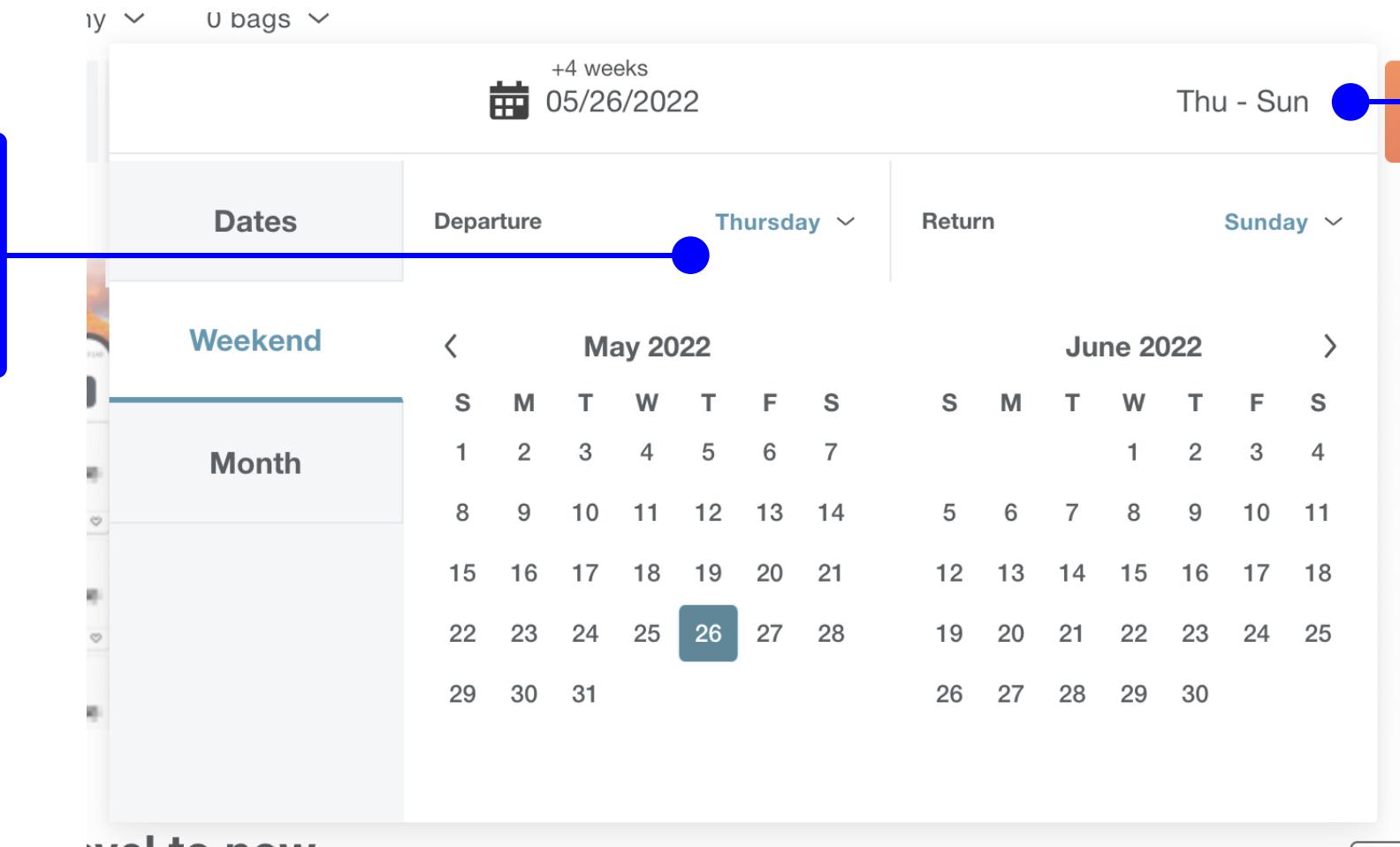
Price estimates in this view have been color coded. Their index and description are clearly relatable.

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

– Kayak (2/3)

The date flexibility dropdown turns into fixed days for both start and end dates.

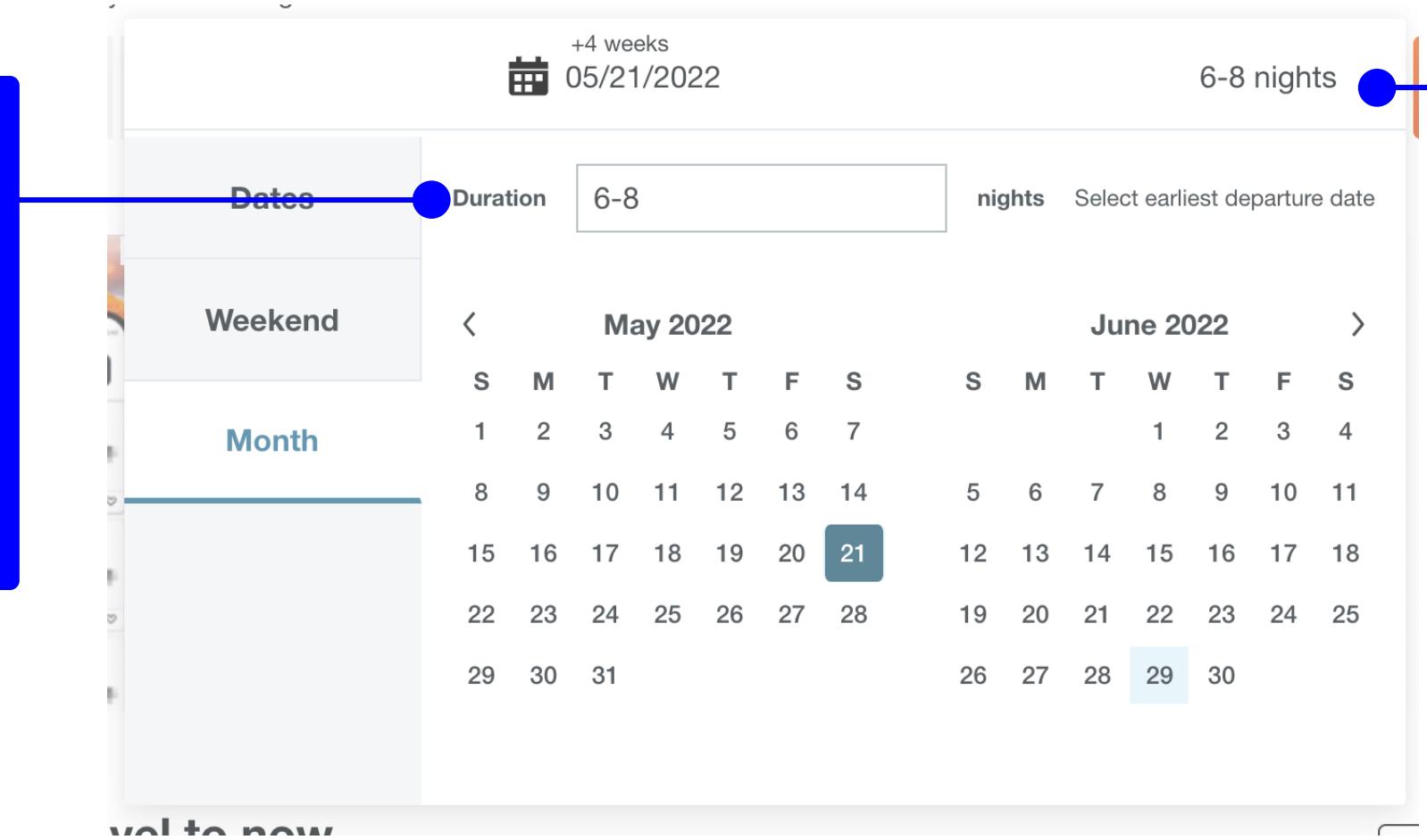


The weekend view automatically sets the flexibility to 4 weeks, which is unclear.

– Kayak (3/3)

The month view adds a trip duration selection.

The duration can be fixed or a range. This is a little confusing to use as it is a single text input that requires specific formatting from the user.



The month view automatically sets the flexibility to 4 weeks, which is unclear.

— To include

Enable date flexibility on both start and end dates.

Enable a quick selection of months.

Make sure the selected check in/out dates selected are always visible.

Make the price estimates and their descriptions clearly relatable.

Use sliders to select flexible date ranges.

Show the cost summary of the stay in the date picker view / do not dismiss the datepicker on end date selection.

— To consider

Offer a separate view for flexible date selection.

Do not dismiss the date picker upon end date selection.

Allow users to select multiple values for flexibility.

Color code price estimate overview.

Consider accessibility here.

Include absolute properties, where users might lack on flexibility.

Use a trip duration input.

— Screens

Going through the visual interactions of the design.

MOVE-IN DATE

Select a date

Exact date only

MOVE-OUT DATE

Select a date

Exact date only

OVERVIEW

Your Booking

Review your dates and costs

Franklinstraße

House > Berlin > Apartments >

Jul 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

Aug 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

Move-in date: Select date X

Move-out date: Select date X

BOOKING COSTS

First month's rent i	—
One time service fee i	€250
Total	€250

RENTAL COSTS OVER PERIOD

Duration	—
Total	€250

You will not be charged at this point.

[View full payment breakdown](#)

[Continue with booking →](#)

€990 - €1290

Monthly (Bills included)



PHOTOS



MAP

MOVE-IN DATE
16 Jul 2022
 Exact date only

MOVE-OUT DATE
Select a date
 Exact date only

OVERVIEW
Your Booking

Review your dates and costs

Franklinstraße

[Home](#) > Berlin > Apartments >

Jul 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

Aug 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

Move-in date: 16 Jul 2022 X

Move-out date: Select date X

BOOKING COSTS

First month's rent <small>i</small>	€1,290
One time service fee <small>i</small>	€250
Total	€1,540

RENTAL COSTS OVER PERIOD

Duration	—
Total	€250

You will not be charged at this point.

[View full payment breakdown](#)

[Continue with booking →](#)

MOVE-IN DATE
16 Jul 2022
 Exact date only

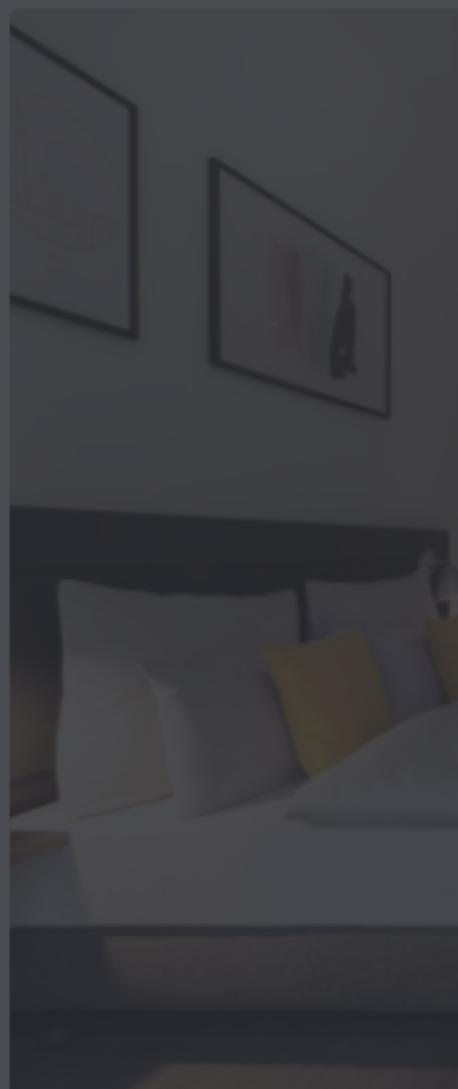
MOVE-OUT DATE
Select a date

Exact date only

OVERVIEW
Your Booking

Review your dates and costs

Franklinstraße

[Home](#) > Berlin > Apartments >


← Jul 2022 → €1,290

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

← Aug 2022 → €1,290

Mo	Su		
Aug 2022	€1,290		
Sep 2022	€1,150		
Oct 2022	€1,050		
Nov 2022	€900		
Dec 2022	€840		
Jan 2023	€840		
20	*Monthly prices are for reference only, view the full payment breakdown for the real amount.		
27	28	29	30

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

Move-in date: 16 Jul 2022 X

Move-out date: Select date X

BOOKING COSTS

First month's rent ⓘ	€1,290
One time service fee ⓘ	€250
Total	€1,540

RENTAL COSTS OVER PERIOD

Duration	—
Total	€250

You will not be charged at this point.

[View full payment breakdown](#)

[Continue with booking →](#)

€990 - €1290

Monthly (Bills included)



PHOTOS



MAP

MOVE-IN DATE

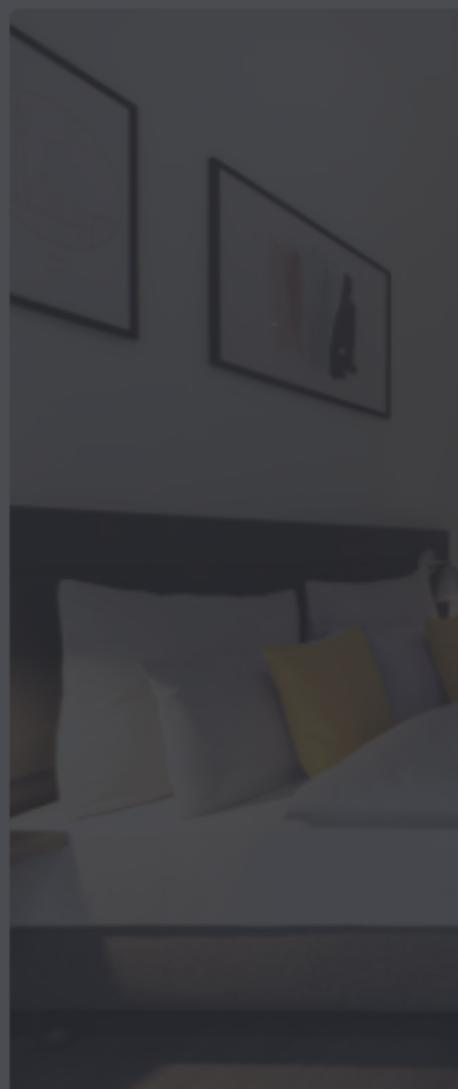
16 Jul 2022
Exact date only

MOVE-IN DATE

03 Dec 2023
Exact date only

Franklinstraße

House > Berlin > Apartments >



Jul 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

December 2023 €840

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

OVERVIEW

Your Booking

Review your dates and costs

Move-in date:

16 Jul 2022

Move-out date:

3 Dec 2023

BOOKING COSTS

First month's rent ⓘ €1,290

One time service fee ⓘ €250

Total €1,540

RENTAL COSTS OVER PERIOD

Duration 5 months, 19 days

Total €5,230

You will not be charged at this point.

[View full payment breakdown](#)[Continue with booking →](#)

€990 - €1290

Monthly (Bills included)



PHOTOS



MAP

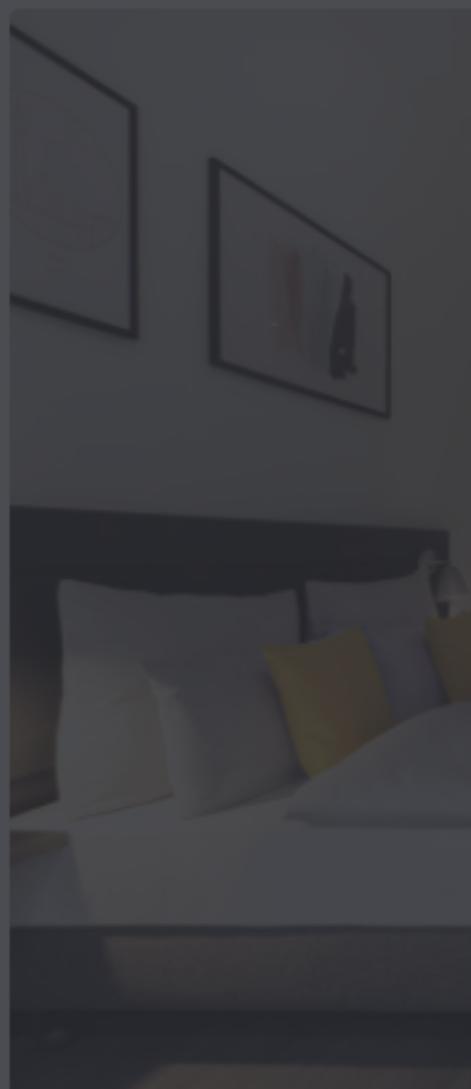
MOVE-IN DATE

16 Jul 2022
Exact date only

MOVE-IN DATE

05 Dec 2023
Exact date only

Franklinstraße

[Home](#) > Berlin > Apartments >

Jul 2022 €1,290

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

December 2023 €840

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

OVERVIEW

Your Booking

Review your dates and costs

Move-in date:

16 Jul 2022

Move-out date:

5 Dec 2023

BOOKING COSTS

First month's rent ⓘ €1,290

One time service fee ⓘ €250

Total €1,540

RENTAL COSTS OVER PERIOD

Duration 5 months, 21 days

Total €5,450

You will not be charged at this point.

[View full payment breakdown](#)[Continue with booking →](#)

€990 - €1290

Monthly (Bills included)



PHOTOS



MAP

MOVE-IN DATE

16 Jul 2022

Exact date only

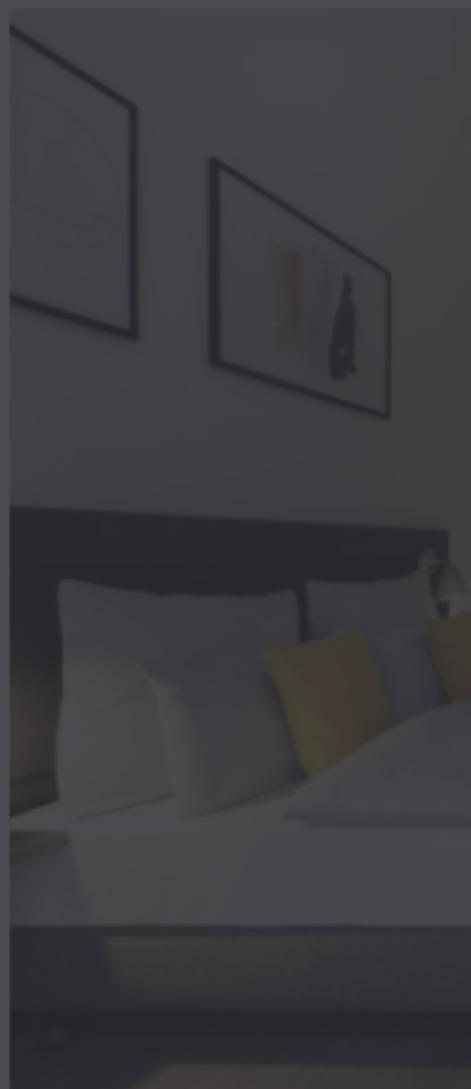
MOVE-IN DATE

05 Dec 2023

± 3 weeks

Franklinstraße

House > Berlin > Apartments >



< Jul 2022 €1,290 >

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Flexibility: Exact date only

0 days 7 days 2 weeks 1 month

< December 2023 €840 >

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Flexibility: ± 3 weeks

0 days 7 days 2 weeks 1 month

OVERVIEW

Your Booking

Review your dates and costs

Move-in date:

16 Jul 2022

Move-out date:

5 Dec 2023

BOOKING COSTS

First month's rent ⓘ	€1,290
One time service fee ⓘ	€250
Total	€1,540

RENTAL COSTS OVER PERIOD

Duration	~5 months, 21 days
Total	~€5,450

You will not be charged at this point.

[View full payment breakdown](#)[Continue with booking →](#)

€990 - €1290

Monthly (Bills included)



PHOTOS



MAP

MOVE-IN DATE

16 Jul 2022

Exact date only

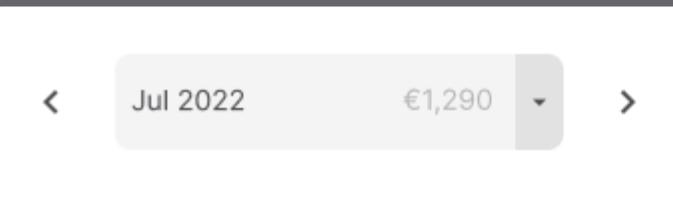
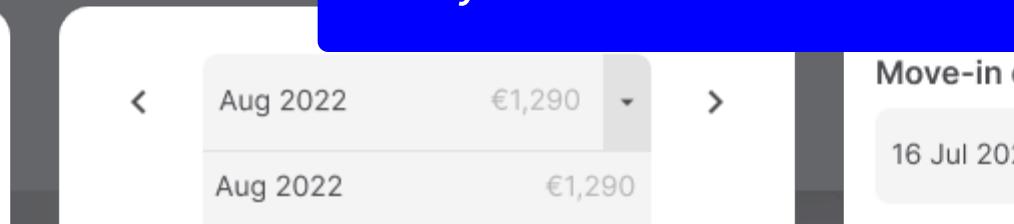
MOVE-OUT DATE

Select a date

Exact date only

Franklinstraße

House > Berlin > Apartments >

**Enable a quick selection of months.****Make sure the selected check in/out dates selected are always visible.**

Booking

dates and costs

Move-in date:
16 Jul 2022**Move-out date:**

Select date

BOOKING COSTS

First month's rent	€1,290
One time service fee	€250
Total	€1,540

RENTAL COSTS OVER PERIOD

Duration	—
Total	€250

You will not be charged at this point.

[View full payment breakdown](#)**Enable date flexibility on both start and end dates.****Use sliders to select flexible date ranges.**

7 days 2 weeks 1 month

0 days 7 days 2 weeks 1 month

Show the cost summary of the stay in the date picker view / do not dismiss the datepicker on end date selection.

Thanks for your time!

[https://www.figma.com/file/emGiLLyLSNjZMi2UKOCwB0/
HousingAnywhere?node-id=45%3A13814](https://www.figma.com/file/emGiLLyLSNjZMi2UKOCwB0/HousingAnywhere?node-id=45%3A13814)