

Interactive Systems Date Range Picker Application

Intermediate Presentation

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Introduction

Statement of the Problem:

- Some date range applications are confusing.
- Spending less time in selecting a date range on an application.

State of the Art

Hello! Thank you so much for taking out time for this survey...

Use Case: You see some tasks listed below. You will be taken through them one by one. Your job will involve selecting a date range on the available UI for your upcoming flight schedule from Accra, Ghana to New Delhi, India or vice-a-versa. As you complete them, the system will check to mark them. And at last, you could submit feedback based on your experience.

App A

- Select a start date and end date using a 5 day as interval between the respective dates
- Select a start date (7th June,2022) and end date(1st July,2022) from the date picker application here provided.
- Choose a start date and end date of your choose from the date picker application here provided.

Let's Go! →

Proposal - App A

The screenshot shows a web application for booking flights. The background is a scenic image of mountains. The Airbnb logo is in the top left. Navigation links include 'Holiday Packages', 'Flight Schedule', 'Account Settings', and 'Manage Booking'. 'Register' and 'Sign In' buttons are in the top right. The main heading is 'Hey Buddy? where are you Flying to?' with an 'Explore Now' link. Below this is a tabbed interface with 'Flight', 'Hotel', and 'Rent a Car'. The 'Flight' tab is active, showing 'Round Trip', '01 Passenger', and 'Economy Class'. A date picker is open, showing June and July 2022. The departure date is set to Tuesday, July 7th, and the return date is set to Friday, July 1st. The destination is 'TO ACCRA Ghana'. A 'Search Flights' button is visible, along with a 'Reset' button and an 'Explore All' link.

date-range-pickers-case-study.vercel.app

airbnb

Holiday Packages Flight Schedule Account Settings Manage Booking

Register Sign In

Hey Buddy? where are you Flying to?

Explore Now →

Flight Hotel Rent a Car

Round Trip 01 Passenger Economy Class

Tue, 07 Jul < > Fri, 01 Jul < > Reset

June - 2022 July - 2022

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

TO ACCRA Ghana

Search Flights →

Explore All

Hello! Thank you so much for taking out time for this survey...

Use Case: You see some tasks listed below. You will be taken through them one by one. Your job will involve selecting a date range on the available UI for your upcoming flight schedule from Accra, Ghana to New Delhi, India or vice-a-versa. As you complete them, the system will check to mark them. And at last, you could submit feedback based on your experience.

App A

Task completed in 1 mins and 48 secs

- ☒ Select a start date and end date using a 5 day as interval between the respective dates
- ☐ Select a start date (7th June,2022) and end date(1st July,2022) from the date picker application here provided.
- ☐ Choose a start date and end date of your choose from the date picker application here provided.

Let's Go! →

Proposal - App B

The screenshot displays a web application for flight booking. The background features a scenic mountain landscape. The Airbnb logo is in the top left, and navigation links for 'Holiday Packages', 'Flight Schedule', 'Account Settings', and 'Manage Booking' are in the top center. 'Register' and 'Sign In' buttons are in the top right.

The main heading reads 'Hey Buddy? where are you Flying to?' with an 'Explore Now' button below it. A flight selection bar at the bottom includes 'Flight', 'Hotel', and 'Rent a Car' options.

The flight details section shows 'Round Trip', '01 Passenger', and 'Economy Class'. A date range picker is set from '06/07/2022' to '07/01/2022'. Below this, two calendar views are shown: 'June 2022' and 'July 2022'. The 'FROM' location is 'ACCRA Ghana' and the 'TO' location is 'NEW DELHI Delhi, India'. A 'Search Flights' button is at the bottom right, and an 'Explore All' link is at the bottom right.

June 2022 Calendar:

Su	Mo	Tu	We	Th	Fr	Sa
			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		

July 2022 Calendar:

Su	Mo	Tu	We	Th	Fr	Sa
					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						

Questionnaire

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All Tasks are complete. Could you please provide us your feedback.

Gender

☐ Male
☐ Female

Age

Select age ▼

Q. Which App variant do you feel is more convenient to use?

Select App Variant ▼

Q. Are you new to using booking applications such as this date-picker application?

☐ Yes
☐ No

Submit

Proposal

Postulation: App B present a better selection date range system

Hypothesis

H₁: App A has a better information on dates selected and doesn't require any special separation characters

H₂: Which application (App A/App B) do you spend less than 2 minutes in interacting with?

Variables

Independent Variables:

- App A and App B have different UI's or design.
- App A support international date format.
- App B support direct input of dates using special separation characters.

Dependent Variable:

- Subjective: App A clearly distinguish dates by showing name of the month.
- Subjective: Choice of App A or App B.
- Objective: Time of interaction with each App.

Methodology

- Users will perform 3 separate tasks.
- Feedback from questionnaires from users.
- Task was timed within 2 mins.

Live Demo