Expedia Usability Test

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August 31, 2023 Utility & Usability - Human-Centered Design 1. Background

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Agenda

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5. Next Steps & Learnings

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Background

- Expedia is a popular website for booking travel accommodations
- It aims to provide the lowest price for any booking. Backed up by "Best Price Guarantee"
- Users can search for hotels, flights, packages, cars, and even cruises





Methodology

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Testing Participants Tasks

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Testing Participants



Name	Demographics	Travel Rate
Armando	Age: 51 Occupation: Flight Attendant Location: Austin, TX	Monthly
Linda	Age: 24 Occupation: Engineering Document Coordinator Location: Massachusetts	A few times a year
Maria	Age: 30 Occupation: Paralegal Location: Los Angeles, CA	A few times a year
Cardinal	Age: 34 Occupation: Counselor Location: Los Angeles, CA	A few times a year
Kristi	Age: 34 Occupation: Counselor Location: Los Angeles, CA	A few times a year





- 1. Book a roundtrip airline ticket from Los Angeles to New York for four (4) people during Labor Day weekend (Sept. 1-4).
- 2. Find a family friendly activity to do on September 6-7 in Paris, France with a \$25-\$50 budget.
- Book a fully refundable direct business flight for two people leaving from LA to New York on December 15-17.3a: Airlines: American Airlines 3b: Departing: Early Morning
- 4. Book a two day cruise to Mexico for two (2) people during the first week of November.
- 5. Walk me through how you would sign-up for an account on Expedia
- 6. Find assistance on travel plans so that you can update your personal account information specifically updating your email address in your profile.
- 7. Compare two different hotel properties with a \$200 budget per night.
- 8. You're needing to rent a car, how would you go about reserving a vehicle?
- 9. Let's say you were a coach for a middle school baseball team (10 people total 1 adult, 6 kids, 3 chaperones) and needed to book a group trip for your team. How would you book this on Expedia.com?
- 10. Your flight got canceled and you're stranded in Chicago overnight. How would you find a hotel room in Chicago for the night using Expedia?









Usability Findings

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Tasks #1-10

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Book a roundtrip airline ticket from Los Angeles to New York for four (4) people during Labor Day weekend (Sept. 1-4).

Usability Issue

Errors

• 2 out of 5 participants didn't know they were booking a hotel instead of a flight. This caused them to have to go back and restart the process.

Visibility of System Status

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

- Users that struggled with booking an airline ticket, didn't know initially what tab they were on
- Any indicators communicating the current system status failed these participants. They were confused on why they only were seeing hotels instead of flights.

2 out of 5 participants were unsatisfied with booking an airline ticket

Confusion with tab

selection

Roundtrip One-way Multi-city Economy ~ Leaving from Going to New York, NY, United States ... Dates Sep 1 - Sep 4 Travelers Los Angeles, CA, United Stat... 4 travelers Search Expedia More travel ~ Get the app English List your property Support Θ Roundtrip v 4 travelers v Economy v Flying from Los Angeles, CA (LAX-Los A... Rying to New York, NY (NYC-All Airp... Departie Sep 4 Filter by Choose departing flight > Choose returning flight > Review your trip From Stops **Flexible dates** Nonstop (46) \$540 Compare prices for nearby days 1 Stop (49) \$541 Sort by 2+ Stops (3) Prices displayed include taxes and may change based on availability. You can review any additional \$513 lees before checkout. Prices are not final until you complete your purchase Price (Lowest) Airlines K) Earn OneKeyCash on top of airline miles and make your miles go further American Airlines (26) \$545 Delta (19) \$545 Expedia Bargain Fare \$460 United (17) \$513 Get the flight now and flight details after booking. This is a special fare with restriction Roundtrip per travele d flight time revealed after purchase Spirit Airlines (16) \$540 JetBlue Airways (14) \$596 1:17pm - 7:27am 15h 10m (2 stops) \$513 59m in Washington (IAD) · 6h 1m in Boston (BOS Los An., (LAX) - Newark (EWR) Alaska Airlines (3) \$545 I United Sun Country Airlines (3) \$5.40 8:07am - 4:31pm 5h 24m (Nonstop \$540 Travel and baggage From Los An... (LAX) - Newark (EWR) trip per travels Spirit Airlines Seat choice included Carry-on bag included \$545 8:33pm - 5:00am 5h 27m (Nonstop) \$540 Los An., (LAX) - Newark (EWR) No cancel fee \$505 Spirit Airlines No change fee \$545

Packages Things to do Cruises

Stays Flights Cars







Task 2

Find a family friendly activity to do on September 6-7 in Paris, France with a \$25-\$50 budget.

Usability Success

Effectiveness

• The options to use various filters in order to narrow down a search helped participants complete the task. Majority of users navigated the left hand side for filters, while some used the "sort by" option.

Consistency and standards

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

The filters found on the left side are consistent with user expectations. Eye tracking research shows users tend to spend more time directing their gaze on the left half of a page

https://www.nngroup.com/articles/horizontal-attention-leans-left/





to narrow down search quickly





Book a fully refundable direct business flight for two people leaving from LA to New York on December 15-17.

3a: Airlines: American Airlines3b: Departing: Early Morning

Usability Issue

Effeciency

• Users found it difficult to locate whether or not the flights were refundable. It was only once they clicked on an individual flight, more information was included. This caused more effort for the user and creates extra steps.

Usability Success

Learnability

• 5 out of 5 participants were able to complete the sub tasks(3a-3b). Once users were familiar with the filter categories, they were able to quickly narrow down their search



departure times

Book a two day cruise to Mexico for two (2) people during the first week of November.

Confusion between

days and nights

Usability Issue

Learnability

• When booking a cruise, participants found it confusing when booking how many nights they would like to stay. Subconsciously they assumed they were choosing days and nights. Instead the options are for minimum nights and maximum nights.

Usability Success

Satisfaction

 Majority of users never used the cruise tab option. All new user that used it enjoyed the process. Users also enjoyed the visual photo of the cruise ship, which helped them decide if they wanted to book a trip.



Walk me through how you would sign-up for an account on Expedia.

Usability Issue



Learnability

All users found it **confusing** that "sign-up" or "create a new account" was the same as the "sign-in" button.

Add a flight

Consistency & Standards

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

- All users had the understanding to look at the top right corner to find the "sign-in" button with the assumption that it would mean "sign-up"
- Users should not have to guess if "sign-in" means the same as "sign-up"
- All users found it intuitive to "Sign in with Google" account but noted that older adults may want a "Create an account" button if they are unfamiliar with Google onboarding flows.



Task 6

Find assistance on travel plans so that you can update your personal account information – specifically updating your email address in your profile

Usability Issue

Satisfaction

• Users understood to go to "Profile" to make any edits to their personal information, however **found it confusing** to then be redirected to "Settings" to change their email address.

Efficiency & Errors

• All users **did not** find it efficient and experienced errors resulting in redirecting themselves to the "Settings" left navigation after being on "Profile > Contact" page.

Help & documentation

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

• While there was documentation on where users could change their email in the "Settings" it added unnecessary steps. The content should be easy to search and focused on the user's task to help them complete their goal of updating an email address.

List your property Support Hi, LiAnn lishizuka@mica.edu Discrepancy and confusion as lises OneKeyCash TM 🛈 to why users must navigate to "Settings" to update email \$0.00 address. velers ravele View rewards activity Users found it more intuitive to make edits under "Profile" and "Contact" page. Account List of favorites Contact account activity alerts and trip updates by sharing this information. Mobile number Country code Phone number × United States +1 7 Expedia 3 Hotels... 8 Vrbo Send me SMS updates Messaging and data rates may apply. Profile Emergency contact Trusted person in case of an emergency Communications > Contact name Payments > Country code Phone number × United States 1 Coupons > Email S Credits > lishizuka@mica.ed. You can change your email in Settings Reviews > Address Settings Country/Region United States of America

Compare two different hotel properties with a \$200 budget per night.

Usability Issue

Learnability

- Only one user was able to successfully learn how to use the "Compare" button which was a hidden toggle on the left-hand navigation list.
- A majority of users (80% of users who participated) found other methods of comparing prices by either favoriting, opening new tabs, or looking at the map to compare hotels.

Flexibility & efficiency of use

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

- One user noted that it would be helpful if the "Compare" button • stood out more by either bolding it or making it more prominent.
- Opportunity to create a shortcut to the "Compare" toggle would help both novice and experienced users speed up the interaction.





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List your property

Suppo



80% of users (4 out of 5) struggled to successfully find the "Compare" toggle button during the Usability Testing and resorted to alternative. unique methods to compare and complete the task.

Stays Flights Cars Packages Things to do Cruises Airport transportation Once initial errors with Dates Sep 13 - Sep 14 this feature were Pick-up time Drop-off time Pick-up Same as pick-up 10:30am 10:30am recovered from. participants had no issue Show AARP rates Discount codes ~ Task 8 finding "cars" category "areat deal" \$60 Great Deal graphic gave per day Mini Van users a sense of Renting a car \$86 total Chrysler Pacifica or similar Free cancellation control Online check-in 2 7 ₩ Automatic Reserve Participants were familiar Pay at pick-up O Unlimited mileage **Usability Success** with left-hand filters and Reserve without a credit card Shuttle to counter and car were able to set their Alamo 92% recommend preferences easily User control and freedom (Jakob Neilsen's 10 Usability Heuristics for User Interface Design) Car type From The presence of filters allowed all users to have full control over Economy \$41 the options they are being shown Compact \$41 Users were drawn to "great deal" and "member price" graphics Midsize \$48 as well as the budget slider so that they can control how much Standard \$51 they are spending Satisfaction V Full-size \$52 Simplicity and match between system and mental models of the \$69 Premium users allowed for greater satisfaction in renting a vehicle Luxury \$86 Prior knowledge of domain meant users had an easier time 🗸 Minivan \$60 finding filters that worked for them and settled on results that SUV \$54 fit their expectations Van \$221 Memorability/Learnability/Efficiency This late in the test participants were familiar with the Pickup \$51 navigation system and filtering system that finding results was Sports Car \$78 quick and efficient Other \$38 Capacity From 2-5 passengers \$52

No warning that there is this limitation. Participants expressed frustration with having to make two bookings to accommodate 11 people

Booking a trip as a coach of a little league team. 1 coach, 6 players and 3 chaperones.

Usability Issue

Error Prevention

(Jakob Neilsen's 10 Usability Heuristics for User Interface Design)

- Participants expressed frustration with there being a lack of warning that Expedia only supports bookings for 6 people at a time
- This led to participants clicking in circles trying to remedy the situation and caused friction

Learnability

- Participants saw a mismatch between mental model and the system as the group booking process did not match expectations
- Regardless of familiarity with the navigation system at this point in the test, users were unable to successfully figure out the system for group booking

Satisfaction

 0/5 participants were able to complete the task and expressed frustration with the failure



Task 10

Booking an impromptu room for the night in Chicago after flight cancellation Some participants used the map function to find

Usability Success

Memorability/Learnability

 Previous experience in the test using the navigation and parameter input systems allowed participants to quickly find the results they were looking for

date

Once initial errors with

participants had no issue

finding "stays" category

and inputting that day's

airport

stays closest to the

this feature were recovered from,

Satisfaction

- Due to the compounding factors of experience, memorability and efficiency, 0/5 participants had issues completing this task.
- All participants walked away feeling they had successfully completed the task both by test parameters and their personal preferences



🗌 Add a flight 📋 Add a car

Participants were familiar with left-hand filters and were able to set their preferences easily



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tthe app 🚭 English List your property Support Trips 🏚 S





Next Steps & Learnings

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Next Steps & Learnings

- Recommend Expedia address core aspect of usability: Efficiency, Satisfaction, and Learnability by addressing the following:
 - Consistent content and vocabulary for onboarding flow (i.e. "sign-up" vs "sign-in" vs "create an account" or error prevention messages for group bookings)
 - Provide short-cuts or accelerators to users and help them find the information they need when comparing listings or updating personal contact information.
- Learned that while a majority of users (62.5% of users screened) have used Expedia.com or it's companion app in the last 2 years, each user had unique challenges and usability issues that impacted both novice and experienced users.



Results from Screener form found 62.5% of users have used Expedia.com or its companion app in the last 2 years.



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Test Recordings

[User Interview Recordings]

Individual Notes



[User Interview Notes]

Survey Results

[Screener Results]

