

ACAA KPATH 2.0 Multiple Appointments Mobile Summative Usability Study: Findings



User Research Overview

Purpose

Evaluate how successful users are going through three different multiple appointment scenarios with a more functional, high-fidelity desktop prototype that incorporates cumulative refinements from past testing

- Track success are users able to overcome usability issues, learn the tool and use it how they want?
- Identify trouble spots where do users encounter the biggest usability issues?
- Identify opportunities to make the experience more intuitive, learnable and flexible

Main Focus Areas

- 1. New workflow logic and progress tracker
- 2. Reason for appointment step
- 3. New date and time slot scheduling layout
- 4. Identify areas where users might need help or explanation

Participants

8 Kaiser Permanente members from SCAL region who are registered on Kp.org and schedule appointments for themselves and children or other family members using different methods

What & When

Usability sessions held in-person to evaluate a mobile prototype of a multiple appointments booking experience between July 5th and July 11th



Scheduling Multiple Appointments: Topline Summary

What we continue to validate

- ✓ Interaction model → patterns used within each step were intuitive
- ✓ Language/Copy → used as prompts and descriptions are clear and intuitive
- ✓ Functionality → flexibility of various options provided added value

Improvements between iterations

- ✓ Reason/Triage → we provided different ways to book an OBGYN appointment
- ✓ Context sensitivity → previously seen physicians presented are now contextual to reason for appointment

Persistent issues across platform

Capture intent upfront → users expect to voice their appointment needs earlier than later in the appointment scheduling workflow (e.g. gender, language filters)

Unique Issues to Mobile

- Non-Linear workflow → moving back and forth between members or appointments not only frustrated some users, but led them to attribute appointment details to the wrong member appointment
- Contextual awareness → noticeability issues associated with visual design treatment was behind physician availability, member/appointment step and required fields awareness



Scheduling Multiple Appointments: Task Performance Summary

Similar fail points to desktop experience were observed within an otherwise easy to navigate experience

Scenario			Success Rate	Fail Points
1	Elena	Has seen a Neurologist for memory problems Experiencing dizziness and pressure in head which might be related to memory problems Wants to make a phone visit with primary care physician or another female doctor	1 of 8	Workflow (3) Filters (3) Required Fields (1)
	Pearl	Needs a physical exam		
	William	Has a fever Seeks first available Spanish speaking male		
2	Elena	Needs a follow-up with previously seen Cardiologist Needs to be seen no later than July 12th; willing to drive to another location to be seen	2 of 8	Workflow (1) Location Change (3) Next Availability (2)
	Pearl	Has a sore throat and seeks an office visit with PCP who turns out to be on vacation		
	William	Has never had vision problems before, needs an eye exam		
3	Elena	Recently found out she is pregnant Needs to schedule 3 prenatal appointments scheduled four weeks apart starting on July 12 th	7 of 8	Workflow (1)



Scheduling Multiple Appointments: Fail Points – Workflow

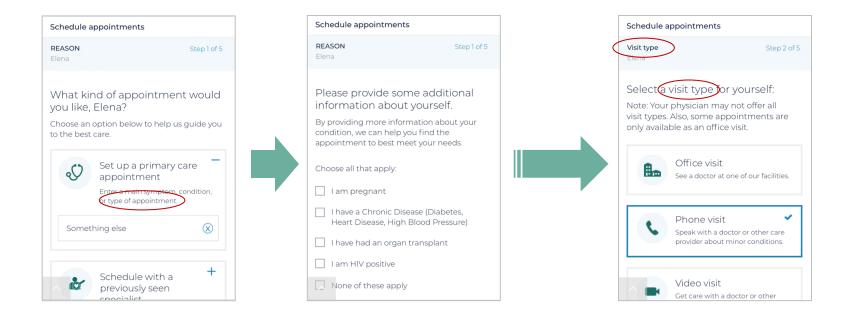
"Type of appointment" was thought to also include different appointment modalities

Scenario 1

Fails 1

 One user expected to be able to specify their desire for a phone visit after selecting "Something else" before moving on to the next appointment (i.e. for Pearl)

"I am not seeing anything for a phone appointment, so I would expect to leave the doctor a note." P1, xx



? "type of appointment" vs. "visit type"?



Scheduling Multiple Appointments: Fail Points – Workflow

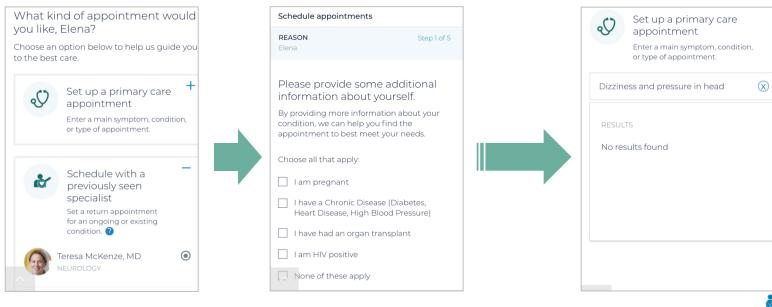
Non-linear workflow led to mixing up appointment details across multiple appointments

Scenario 1, 2

Fails 2



- Less screen real estate on mobile led users to scroll pass prompts providing important context as to which appointment or member the step was for
 - One user thought they were being taken back to re-enter appointment information when scheduling multiple successive appointments for one member
 - Another user, unintentionally entered Elena's symptoms on Pearl's reason for appointment step after selecting a specialist and answering triage questions, thinking she was still answering questions about Elena



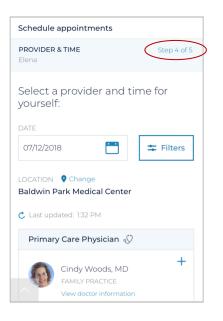
Scheduling Multiple Appointments: Fail Points – Workflow

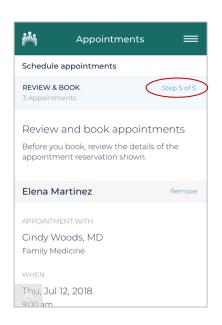
Navigation affordances were not readily available, visible or where they were expected

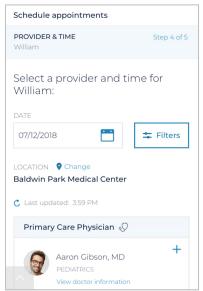




- The step indicator was easily missed or thought to be simply for informational purposes
- There were no clear affordances for moving between appointments when coordinating or comparing dates and times across appointments
- Once on the Review & Book step users often expected an "edit" link to be provided beside "Remove"; two task failures occurred due to users being unable to correct appointment details







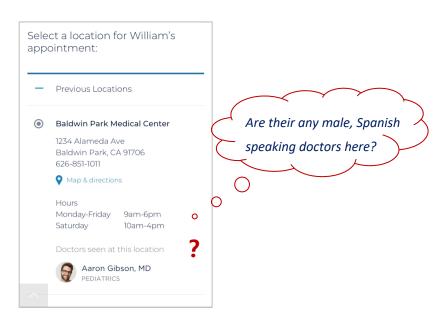


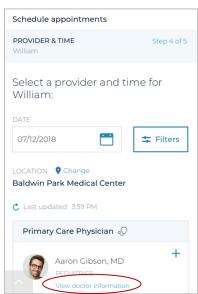
Scheduling Multiple Appointments: Fail Points – Filters

Filters did not fit where and how users expected to specify physician attributes

Scenario 1
Fails 3

- Workflow → One user expected to specify gender and language earlier within the workflow as it is more of a driver of where and how they would be seen
- In-Page Interaction → Two other users ignored the filters feature expecting instead to identify gender and language attributes using the "Visit doctor information" links
- Language → "Filters" was an ambiguous term especially in context of a medical facility provider listing
- Placement → "Filters" was perceived to be date/time related beside the date picker







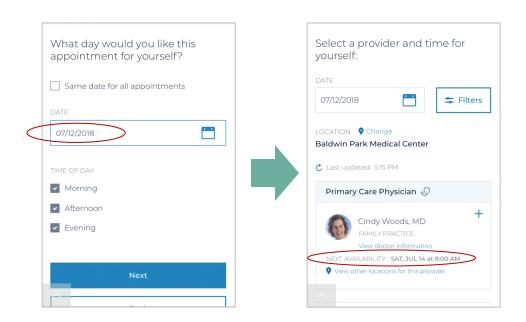
Scheduling Multiple Appointments: Fail Points – Next Availability

Physician availability was expected to match date selected in prior date selection step

Scenario 2

Fails 2

- Physicians listed first in Provider & Time step were expected to match specified date
- Two users ignored "Next availability" thinking that their physicians listed were available on the specified date, resulting in them booking appointment on the wrong date
- If primary care or previously seen physicians were not available on specified date, more obvious, explicit messaging was expected to communicate their unavailability



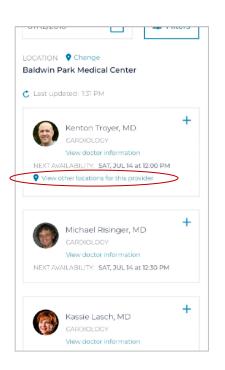


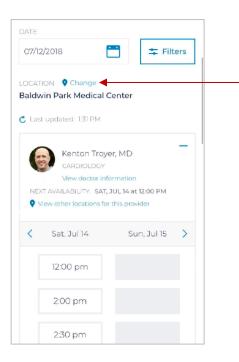
Scheduling Multiple Appointments: Fail Points – Location Change

View other locations for this provider link was often missed

Scenario 2

- Fails 3
- User focus was primarily on dates and times; once users determined a physician was not available they did not focus on other information on the tile
- Changing location was thought to be non-specific to physician
 - Leading with a location first approach may have contributed to this expectation





Some users sought to change the location they previously selected in a prior step



Scheduling Multiple Appointments: Fail Points – Required Fields

Required field for phone number was not obvious or easily discoverable

Scenario 1

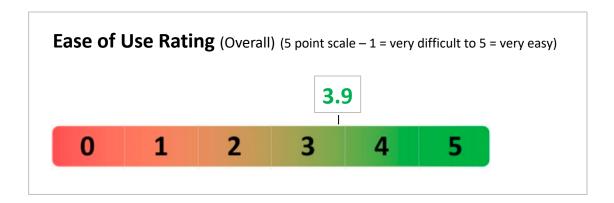
Fails 1

- One user was unaware they needed to complete a required field to complete booking their appointments
- Review and Book step appeared to be similar to Confirmation page, which was a contributing factor





Scheduling Multiple Appointments: Summary Perceptions



Reasons for Rating:

- + Logical, intuitive (aside from "back-and-forth" issue in workflow)
- Ability to see all appointment times for multiple appointments
- Flexibility provided (e.g. visit type, filters, other physicians)
- Length, repetition (i.e. mostly scenario 3) and back-and-forth between appointments within workflow
- Difficulty comparing, coordinating, remembering and/or changing appointments details

