

# Electronic Pain Diary (EPAD)

Project HealthDesign Showcase  
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## Discoveries and challenges during design and prototyping

Mobile Device  
Form Factor  
and App UI

Customized  
Questions

Pain Diary  
Algorithm

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### Before

- Non-touch screen Smartphone
- Touch-screen Smartphone
- Small-size touch-screen PDA
- Small/default data entry components

## Previous Devices



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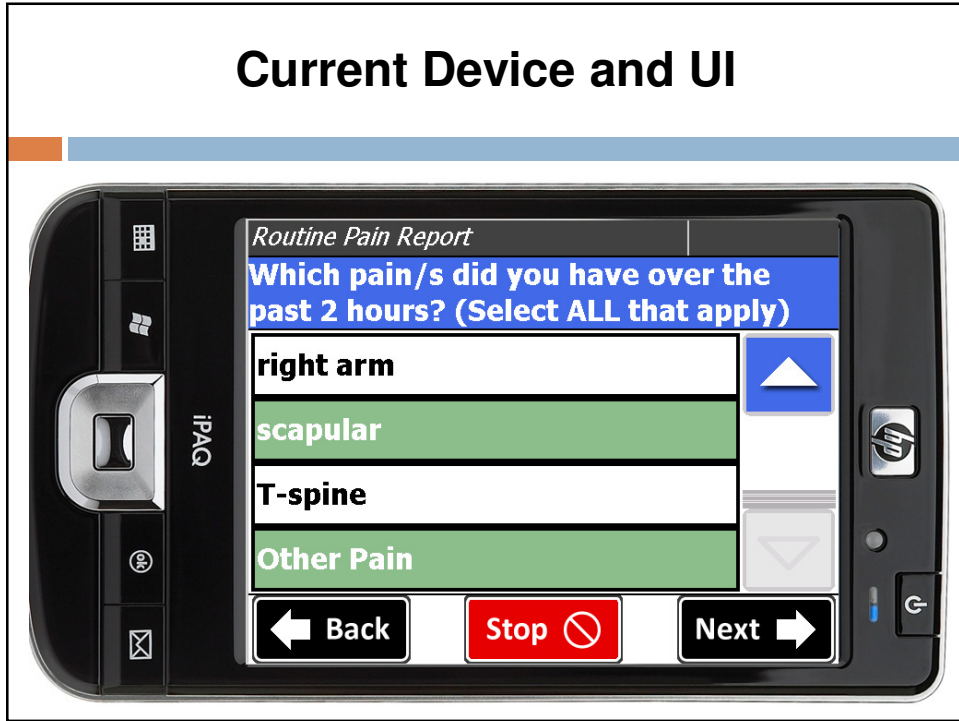
### After

- Large-size touch-screen PDA
- Large/custom data entry components

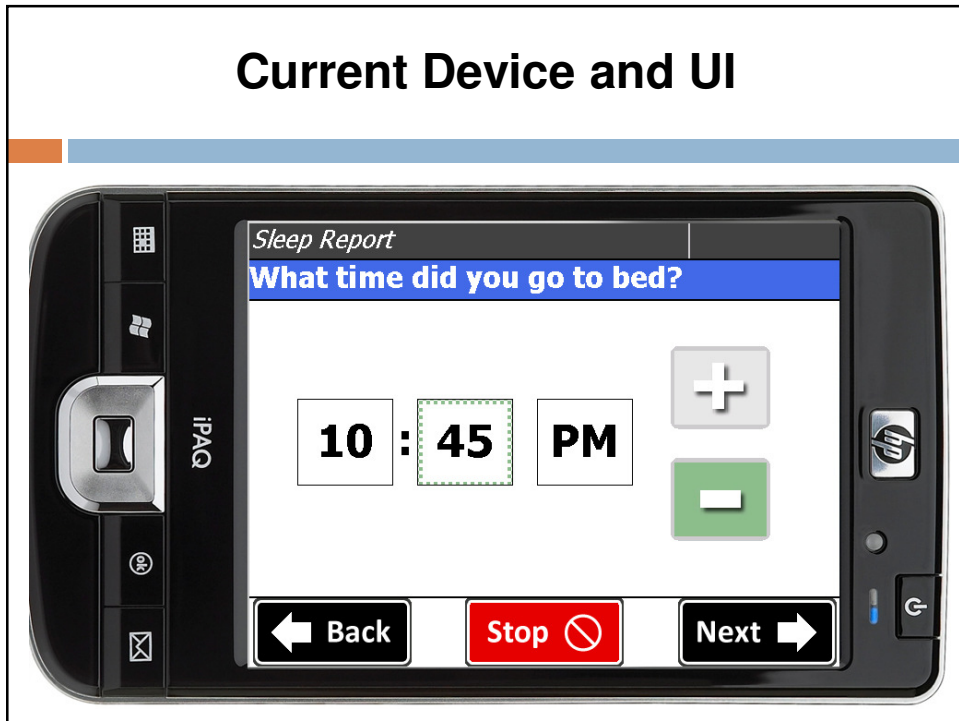
## Current Device and UI



## Current Device and UI



## Current Device and UI



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### Challenge:

**Customize diary response options to users' common personal responses for:**

- **Types of pain**
- **Medications and other treatments**
- **Physical activities**

## Customizing responses on physical activity

- User selects locations classified in 8 categories:
  - ▣ Home: Inside/Outside
  - ▣ Work: Inside/Outside
  - ▣ Other Places: Inside/Outside
  - ▣ Traveling: In Vehicle/Outside
- User customizes options in each category
- Locations are associated with customized list of activities usually performed in that location

Places You Go to Often	
<ul style="list-style-type: none"> <li>• Check boxes next to places that you go to often</li> <li>• Write in other types of places that you go to in the bottom of the table</li> </ul>	
Places Where You Are Inside (Besides Home and Work)	Places Where You Are Outside (Besides Home and Work)
<input type="checkbox"/> Grocery store or supermarket	<input type="checkbox"/> Park or open space
<input type="checkbox"/> Restaurant of fast food outlet	<input type="checkbox"/> Playing field or track
<input type="checkbox"/> Coffeehouse	<input type="checkbox"/> Stadium
<input type="checkbox"/> Movie theater	<input type="checkbox"/> Around your neighborhood
<input type="checkbox"/> Convenience Store	
<input type="checkbox"/> Home of Friend or Relative	
<input type="checkbox"/> Gas station	
<input type="checkbox"/> Health club or gym	
<input type="checkbox"/> Department or variety store	
<input type="checkbox"/> Drug store	
<input type="checkbox"/> Clothing store	
<input type="checkbox"/> Shopping Mall	
<input type="checkbox"/> School or college	

Physical Activities You Do at Home	
<ul style="list-style-type: none"> <li>• Check the box next to any activity that you do often at home</li> <li>• Write in other activities in the blank boxes at the bottom of the table</li> </ul>	
Inside the House/Apartment	Outside the House/Apartment
<input type="checkbox"/> Lying down (sleeping, resting, etc.)	<input type="checkbox"/> Yard work
<input type="checkbox"/> Washing up at the sink	<input type="checkbox"/> Gardening
<input type="checkbox"/> Taking a shower or bath	<input type="checkbox"/> Taking out the garbage
<input type="checkbox"/> Getting dressed	<input type="checkbox"/> Exterior home repair
<input type="checkbox"/> Preparing a meal	<input type="checkbox"/> Snow removal
<input type="checkbox"/> Sitting (to eat, watch TV, read, talk, work, write, use the computer, listen to music etc.)	<input type="checkbox"/> Lawn mowing
<input type="checkbox"/> House cleaning	
<input type="checkbox"/> Washing clothes	
<input type="checkbox"/> Ironing, folding, storing clothes	
<input type="checkbox"/> Household repairs or decorating	

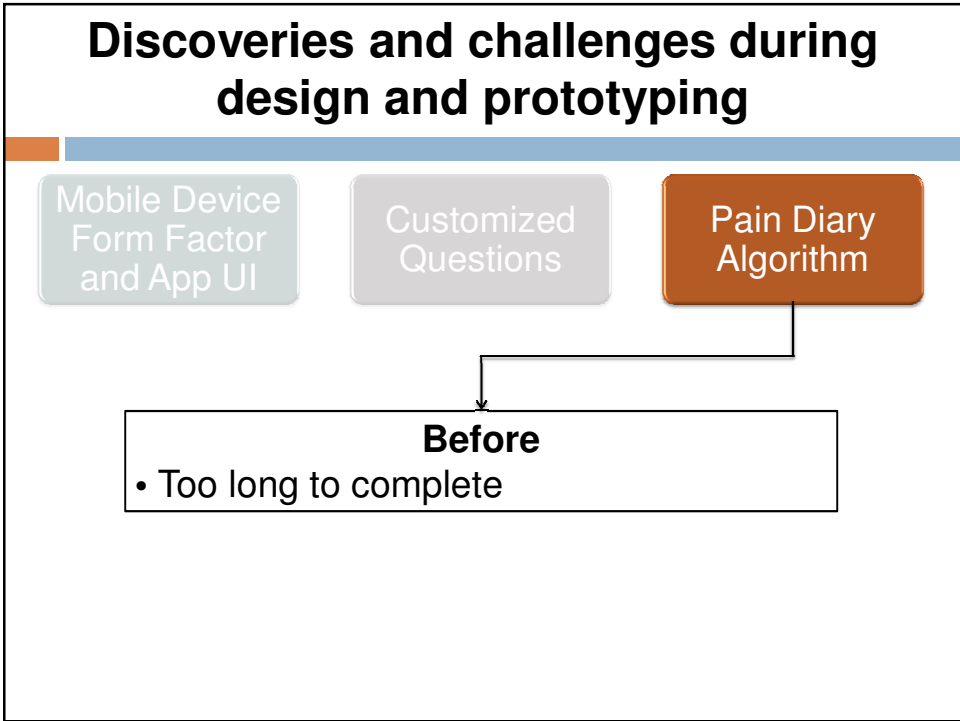
## Customization Wizard

### EPAD Wizard: My Activities

*And/Or Select From List*

walking  
rowing  
golfing  
jogging

gardening  
playing board game



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### After

- Question consolidation
- Iterations in the right places

## Plans for the transition period

- Field test EPAD and make revisions as needed
- Develop and user test data analyses and displays
- Test and evaluate data transfer to common platform and data sharing
- Create and test UI for response customization
- Trial of use of web services with common platform to analyze and display data

## Plans for the transition period

