



Krab Shack App Initial Testing

Steven Landry



Krab Shack App

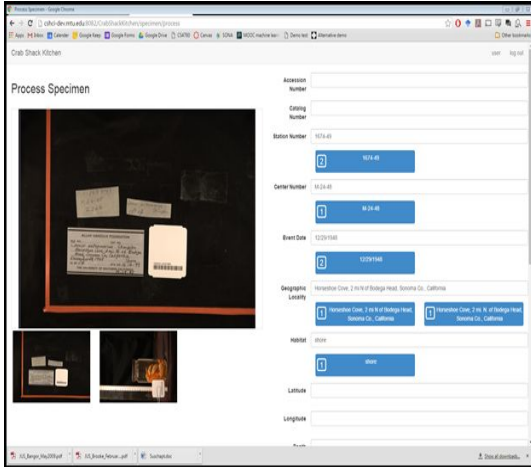
Leveraging citizen science submissions to help digitize a specimen collection for the Natural History Museum of Los Angeles



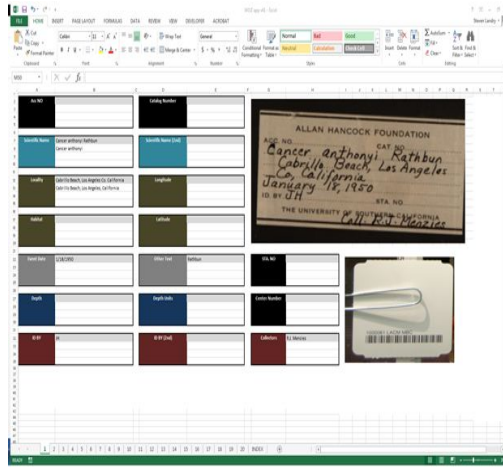
Apparatus/Stimuli



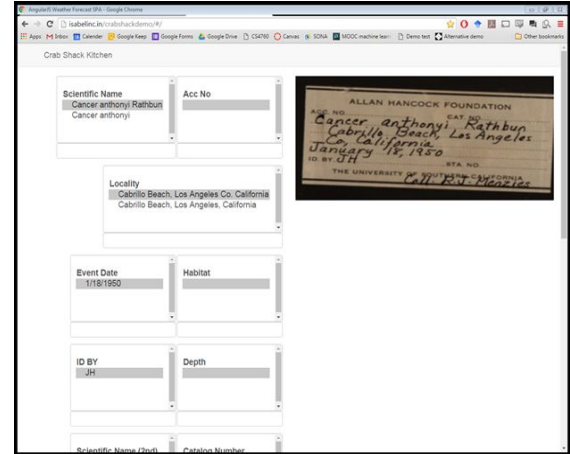
A



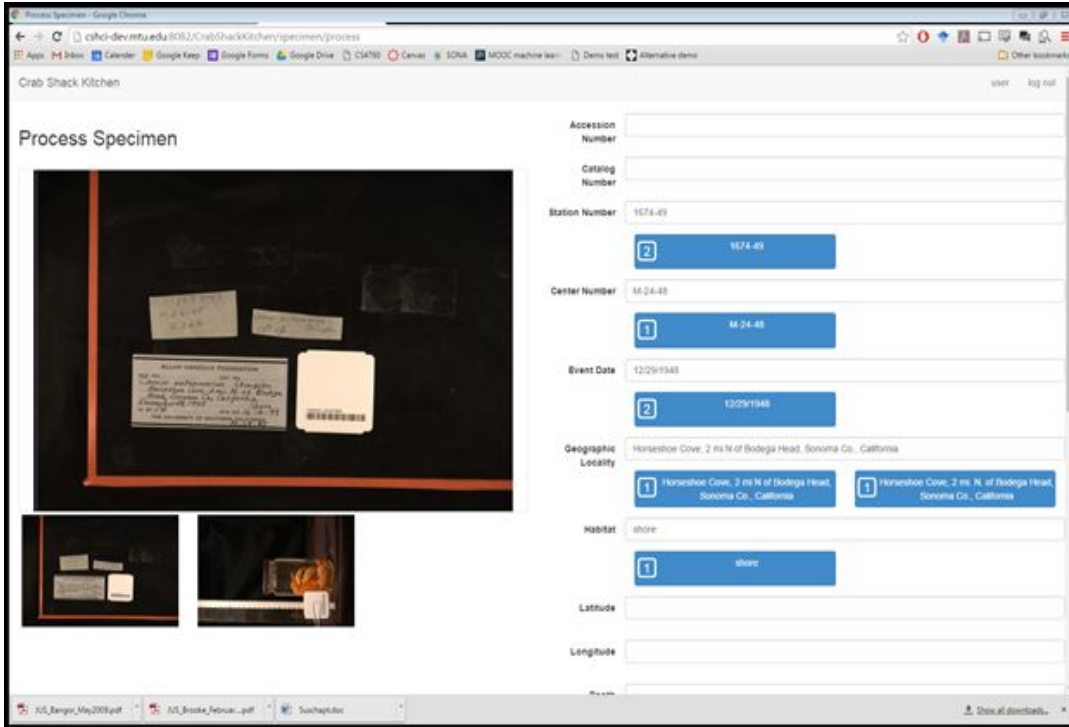
B



C



A



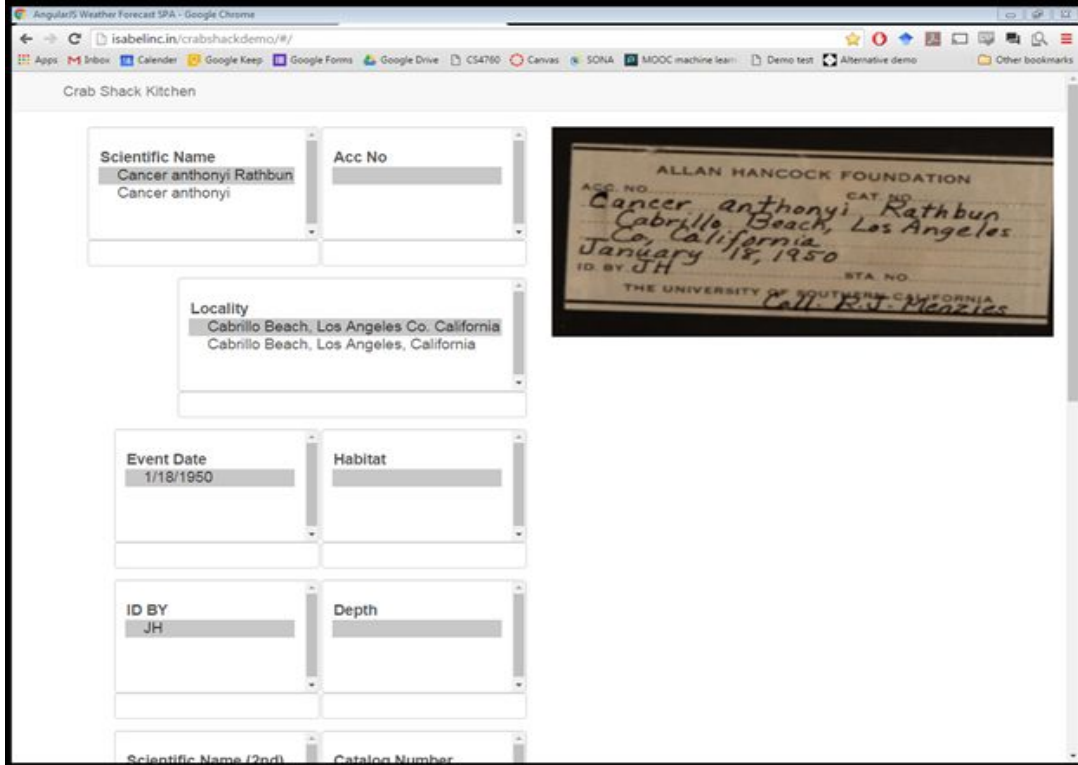
- Actual App
- Scientist specified layout
Order
Grouping (none)
Horizontal submissions

B

Acc No	Catalog Number
Scientific Name Cancer anthonyi Rathbun Cancer anthonyi	Scientific Name (Link)
Locality Cabrillo Beach, Los Angeles Co, California Cabrillo Beach, Los Angeles, California	Longitude
Habitat	Latitude
Issued Date 1/18/1950	Order List Rathbun
Depth	Depth Meters
ID BY JH	ID BY (Link)
Collector J.J. Meneses	STA. NO
	Center Number

- Mock interface w /excel
- Alternative layout
 - Color
 - Grouping
 - Location of fields
 - Vertical submissions
 - Fields in a grid layout
 - No scrolling

C



- Mock interface w/ Node.js
- Hybrid layout
 - Field windows (new)
 - Fields in columns (new)
 - Buttons (old)
 - Vertical submissions

Procedure



The Experiment

Setup()

- Consent form
- Robert's demographic info
- Explanation of the app's purpose

For (version in c(A,B,C))

- Do 1 specimen
- Talk about it
- Do 5 minute speed run
- Talk about

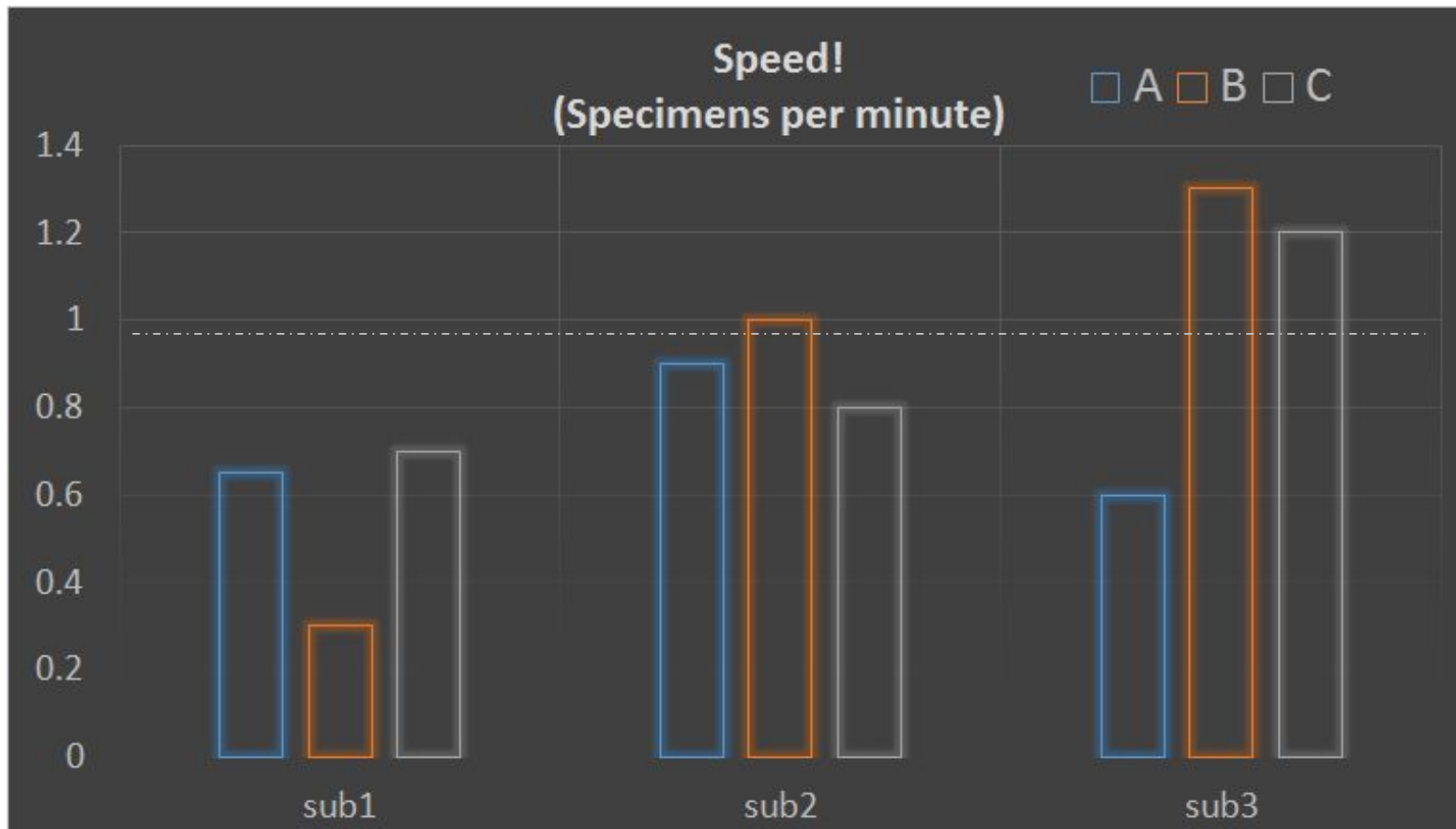
Debrief()

- Final impressions/thoughts
- Draw your ideal layout/design
- Robert's exit questions

Print (results)

Results



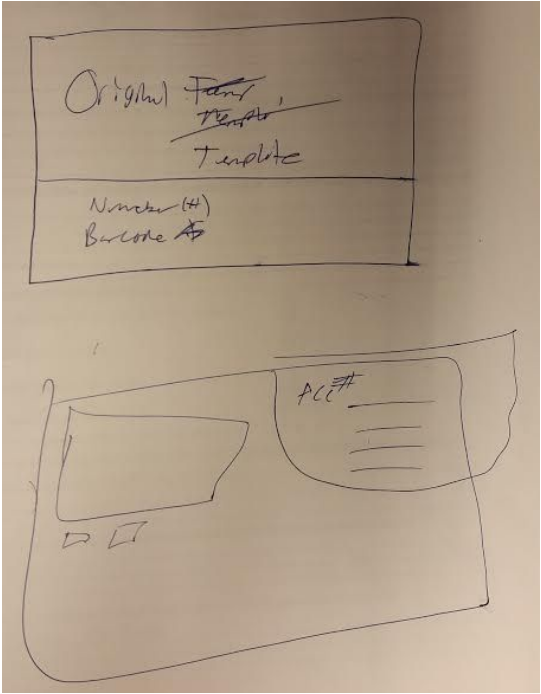


Not trustworthy...

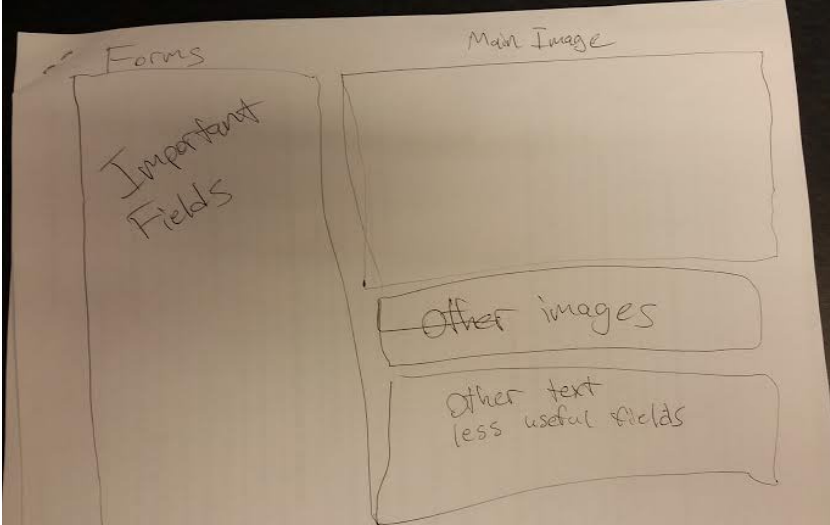
Robert's Q's

Q	Sub1	Sub2	Sub3
How many Years have you used a computer?	10+	16	9
I am very interest in the testing of this application	Strongly Agree	Strongly Agree	Neutral
Overall, this application was easy to perform the task	Neutral	Agree	Agree
I enjoy using this application	Neutral	Agree	Agree
I would use this application again	Agree	Strongly Agree	Agree

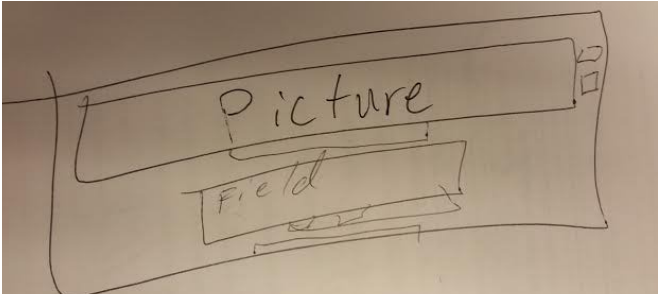
Ideal layout drawings



Sub1



Sub2



Sub3

Bug Report

Bug ID	Bug name	Bug uniqueness	Bug location	Bug description	How to replicate	Bug finder

No bugs found!!!

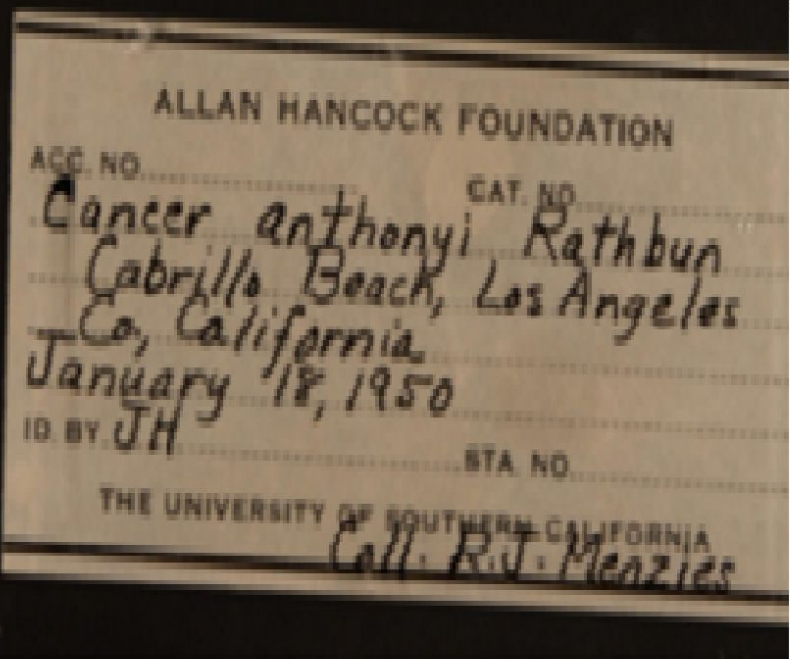
Usability Issues

- Difficult to keep track of which field you are on (attention bounces back and forth a LOT)
 - A lot of time is lost remembering what field you are on
- Difficult to remember which fields you have already visited vs. prefilled fields
- All white background uncomfortable to stare at for a long time
- Not obvious that the App name/logo is a button to go back to main page
- Not obvious which is the currently active picture
- Fields don't follow the organization of the standard label
- Horizontal alignment was difficult to compare very similar submission

Recommendations...

Redesign

Crab Shack Kitchen user log out



• **ACC. NO** Dropdown

• **CAT. NO** ● Item 1

• **STA. NO** ● Item 2

● Item 3

Scientific Name Dropdown

Scientific Name (2nd) Dropdown

Locality Dropdown

Habitat Dropdown

Longitude Dropdown

Latitude Dropdown

Date August 4, 1997

Suggested changes:

- Hybrid textbox/drowndown
- Logo is more button-y
- Minimize empty space
- Slightly darker background
- Larger field labels
- "Hooks"
 - Color
 - Grouping gestalt
 - Active field box
 - Previously visited dot
- Highlight active picture
- Use tab and arrow keys