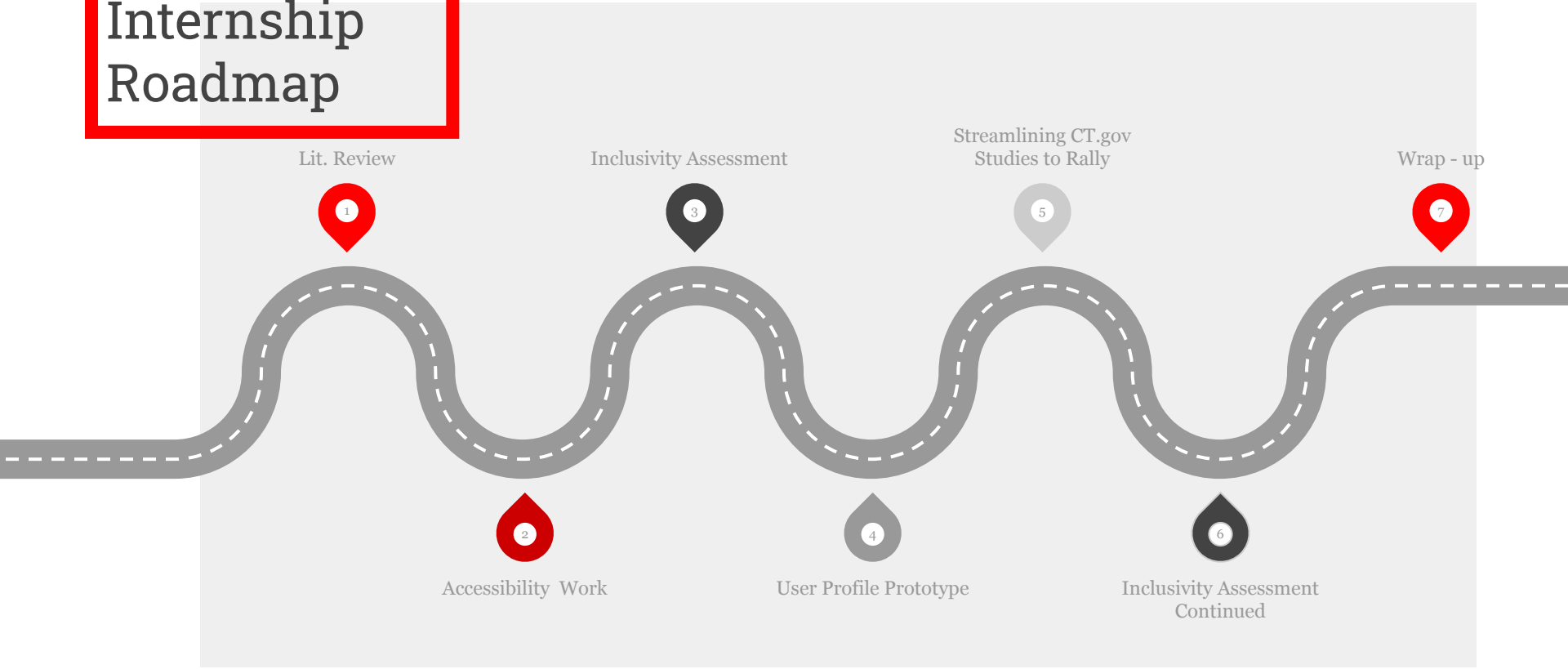


Rally Internship Summer 2021

By Salma H. and Amy L.

Internship Roadmap



Lit. Review: Patient Engagement & Recruitment

- Patient Engagement in Research
 - “Nothing about me, without me.”
 - What is meaningful patient engagement?
- Clinical Trial Recruitment
 - 86% of studies don’t meet recruitment goals (Huang, et al., 2018)
 - Unique patient recruitment methods
 - Ethical concerns
- Challenges



- WCAG3
 - Perceivable, operable, understandable, robust
 - Guidelines and conformance levels
- *Think about **who, why, and how?***
- Is there a **methodology** for testing compliance to WCAG?
 - How have diverse individuals been involved in the development process?

Accessibility



- No defined methodology
 - Online evaluation websites, internal reviews, and accessibility experts
- Met with Dr. Elaine Short
 - “Get in there with your hammer and wrench, and break things.”
- Accessibility widgets → \$\$\$

Defining Inclusivity

- What is “inclusivity”?
 - Equal accessibility for marginalized groups
 - Physical disability and/or mental disability
 - Gender nonconforming individuals
 - POC & BIPOC
 - ESL & language barriers
 - Unique family structure
- Ties in with accessibility (WCAG)
- **Why is this important?**



Inclusivity Assessment



- Is this site built to support a wide range of audiences?
 - Assessing patient engagement
 - **Meaningful** inclusivity
 - Engagement **throughout** the design process
 - No single solution

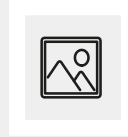
Some Best Practices for Meaningful Inclusivity

Caregiver Participation



Are registered caregivers able to navigate patient portals and/or research platforms on behalf of their patients?

Inclusive Imagery



Are a diverse set of patients represented in the images displayed on site?

Implication-Free Language



Is all the content on site presented free from stereotypes? Are surveys phrased with implication-free language?

Language Complexity



Is all the language on site phrased in a non-advanced way (a reasonable reading level)?

Collect *Necessary* Info



When requesting for specific demographic / personal info, are we certain these are necessary pieces of info to ask for?

Different Languages



Can the site be presented in languages other than English?

Measuring Inclusivity

- Questionnaire-style assessment
 - Sliding scale option
 - Yes / No option
 - **Inclusivity score/rating or grade**
- Looking at PEIRS
 - Measuring patient engagement
 - Likert rating scale



Another direction...



- Including RSVP for Health
 - Matching algorithms - Alvin Roth - market design
 - Patients in RSVP for Health → studies in Rally website!
- “Studies like this” feature
 - Developing user profile + study criteria
 - What information should we ask the users?

User Profile Prototype



- Candidate additions to user profile
 - Informed by United Against Racism initiative/proposal and Ryan's work
- Develop a working prototype of the user profile on Rally
 - Learn to use Angular framework
 - Use existing Rally code on Github

About You Contact Info Preferences Saved searches My projects Change password

About You

First name
Please enter your first name

Last name
Please enter your last name

Date of Birth
Month Day Year

Sex
--

Gender
--

Race
 American Indian or Alaska Native
 Asian
 Black or African American
 Middle Eastern or North African
 Native Hawaiian or Other Pacific Islander
 White
 Other

Completing your profile will allow us to present you with research volunteer opportunities that might be more relevant to you.

Fill in the information you are willing to share and we'll start from there.

- ✓ Age
- ✓ Race
- ✓ Ethnicity
- ✓ Primary language
- ✓ Geographic location

- ✓ Motives
- ✓ Study Includes

✓ Areas of Interest

- ✓ Travel

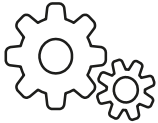
User Profile

w/ list of additional questions

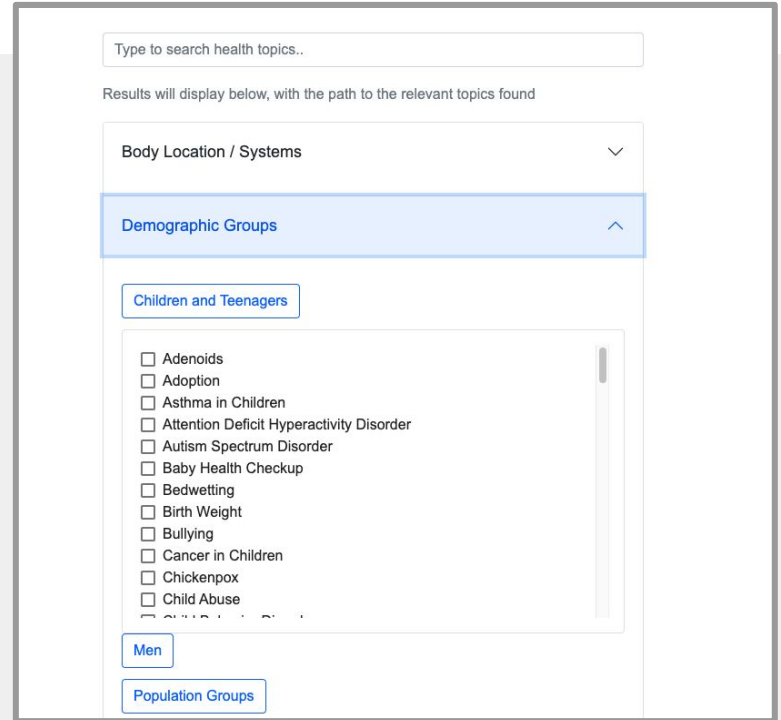
Areas of Interest



- ❑ Accordion / tree structure
- ❑ Search functionality
 - Breadcrumbs
 - Supercategories / categories / topics



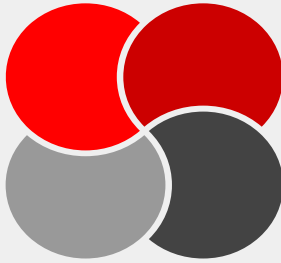
- ✓ User experience + testing
- ✓ Working with Bootstrap, JSON, Angular pipes, etc
- ✓ Bugs :(



Streamlining CT.gov Studies to Rally

- Incorporate data elements to transfer to Rally
 - NCT number, primary study contact name, eligibility criteria, etc.
- CT.gov APIs
 - Identifying fields to query
 - NCTId, CentralContactName, EligibilityCriteria
- Using Node.js to query CT.gov
- **End goal:** CT.gov studies appearing on Rally

Wrap-Up



- ❑ Learned more about accessibility + inclusivity in web design
- ❑ Exposure to technical projects (Angular, Node.js)
- ❑ Practiced navigating academic research
- ❑ Made amazing mentors!

Thanks!

Any questions?

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