36 QUIKPIK

QuikPik: The Humble Beginning

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Problem Introduction

- You and your friends are deciding to watch a TV series together because we are all stuck at
 home because quarantine and want something fun to do together. It takes forever to have
 everyone agree on what to watch because everytime a new idea is brought up it takes time to
 describe what it is and go through the whole process. But what if there was a quicker way.
- QuikPik is an app that helps streamline that issue by having the users all vote on choices like restaurants, TV shows, movies, etc. and then picking the best solution for the group

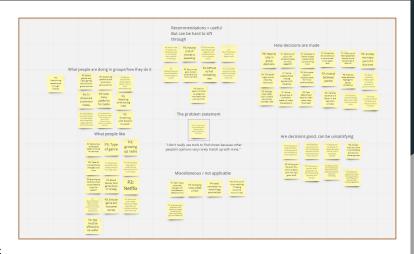


Formative Research: Problem Statement and Semi-Structured Interviews

- We, first, formalized the problem statement, as shown on previous slide
- Developed a User Research Protocol to interview subjects in an ethical and productive manner
- Semi-structured interviews:
 - o Background information re: media consumption
 - Current media consumption habits
 - Decision making as a group
 - Google questionnaire/survey

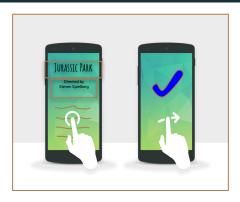


Qualitative Analysis



- Qualitative analysis carried out on interview transcripts
- Open-coding: selecting important information from transcripts, writing a short phrase explaining what is valuable about the quotation
- Clustering Open Codes into rough categories (see image)
- Clustering led to common behaviour patterns, which informed the most essential features to include

Ideation and Final Idea



- Ideation: generate a large list (75 items) of different ways to solve our problem statement
- Clustering of Ideas: 5 Categories organically arose:
 - Voting, Minigames, AI, Random Selection, and Core app functions
- Several rounds of selection and rating of the ideas pared down the list of possible ideas
- Aspects most essential to a well-designed and usable application remained, giving final app idea





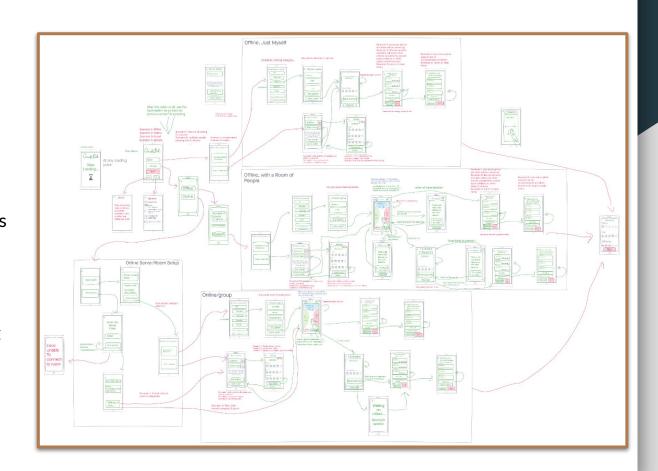




App functions							
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6. Timed voting. Too slow, you don't get a vote	58. Have a proximity feature that would check if there is an activity to do nearby because others put in an activity list of stuff to do nearby.	Of the companies on the areas is give integers through the population in the people after any pricing a company grid in find a could not the transition from the chart in cool from the chart in could not include the chart in could not include the chart in collection of collections.	56. Ask "this or that" questions about arribuses of activity(i.e. succe or sally for restaurams, striller or harrer for movies, std.)	30, 20 question and thoose your own adventure suggesting next stages for the adventure	App should give "ans- recommendations" based on votes of the group (tags for each activity)	2. Activity suggested based on location (i.e. restautants within 15 mile radius)	
			35. Different selection modes for each new activity that is going to happen	13. Ranking of users that decision. Person get ranked up for giving good choices.			

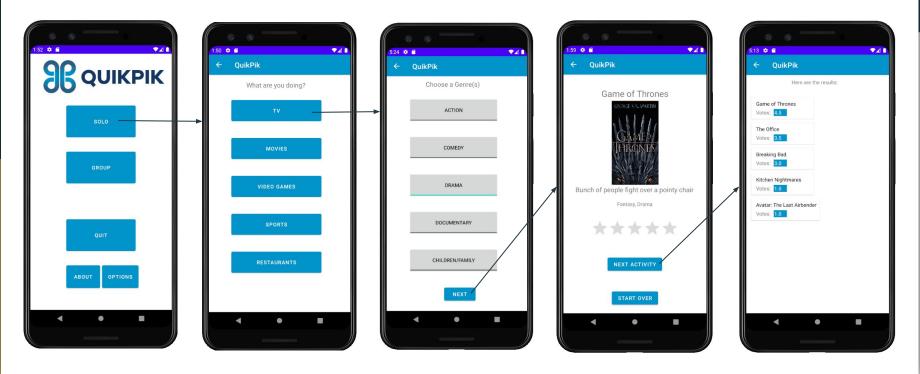
Low-Fidelity Prototype

- Cognitive Walkthroughs and Heuristic Evaluations helped us refine our solution and led to our final low fidelity prototype
- 3 main tracks, depending on group size/app availability



Final App

Solo-Selection Track:



User Testing: Methods

Method 1: User uses QuikPik to find a TV show to watch

- Formative reveal usability errors, get user's impressions of the errors
- Summative time to find a show to watch, times user presses back button

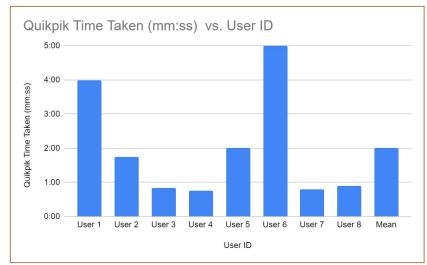
Method 2: User uses Netflix to find a TV show to watch and compares it to QuikPik

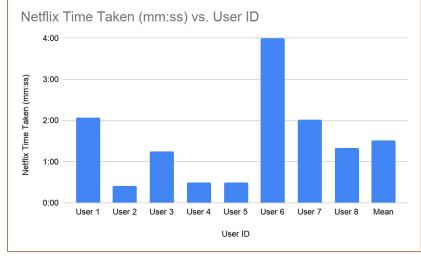
Summative - number of users that prefer QuikPik or Netflix

Statistical Analysis

Problem Statement: Does QuikPik speed up activity selection time vs. Netflix?

- Average time for Netflix was 30 seconds faster than QuikPik (120 seconds vs 90 seconds).
- Sample Standard Deviation: $s_{QuikPik} = 91.41$ seconds, $s_{Netflix} = 67.42$ second
- Can use a hypothesis test of two means





Statistical Analysis, cont

- Hypothesis test of two means tests our claim that QuikPik speeds up activity selection.
- H_0 : u_{OuikPik} $u_{\text{Netflix}} = 0$, H_A : u_{OuikPik} $u_{\text{Netflix}} < 0$, n = 8
- Test Statistic: $((120-90) 0) / \sqrt{(67.42^2/8) + (91.41^2/8)} = .747$
- p = .234
- There isn't strong evidence that QuikPik is faster than Netflix.
- Errors with Test / Confounding Conditions:
 - Familiarity with Netflix and/or unfamiliarity with QuikPik
 - \circ Small sample size, high sample variance (s = $\sqrt{\left[\sigma_{\text{QuikPik}}^2 / n_{\text{QuikPik}} + \sigma_{\text{Netflix}}^2 / n_{\text{Netflix}}\right]}$)
 - Selecting a show that they are familiar with on Netflix, rather than something new which is the primary purpose of QuikPik
 - Users often times try multiple shows on Netflix before final selection

User Testing: Findings

App specific problems:

- App is unclear on what predetermined and custom categories are
- The rating screens had no images
- Users needed to have the results and ratings explained to them
- Users would like some randomness with predetermined categories
- Show what platforms the activity is available on

Overall findings:

- Users weren't faster at selecting TV shows from QuikPik vs Netflix
- Focus should primarily be on having this app be for groups

Future Developments and Testing

Developments:

- Create a system that selects from a database (Netflix, IMDB, etc) for predetermined categories.
- Finish and expand group selection.
- Add more detail to the rating system (more metrics, better explanations of ratings).
- Add functionality to select which platforms you want to use (Hulu, Amazon, etc).

Testing:

- Increase sample size.
- Give a small QuikPik training session prior to timing
- Ask participants to find a NEW activity specifically.