ThunderBrain

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Needfinding

Interviews

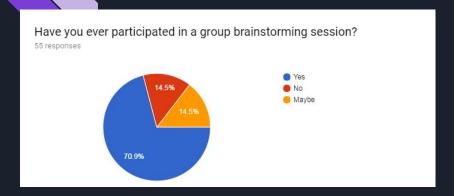
Prof Kautz: What do you find annoying about brainstorming?

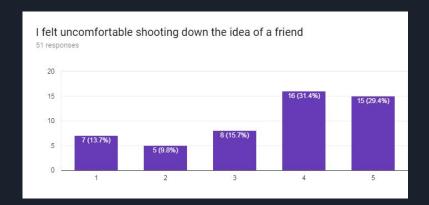
- Conversation gets dominated, opinions go unheard
- Suggestion: Create meeting moderation bot

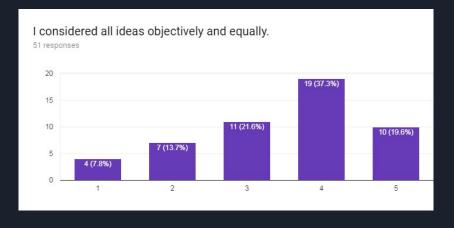
Prof Gonec: How do you feel about a meeting moderation bot?

- A bot that tells people when to speak would be annoying
- Concern: Careful to select people for brainstorming to reduce bias &
- Get ideas from people with personality differences

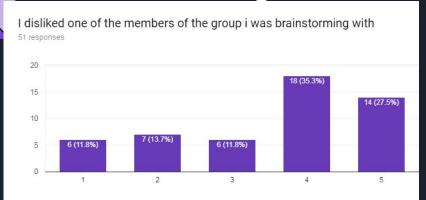
Survey & Findings



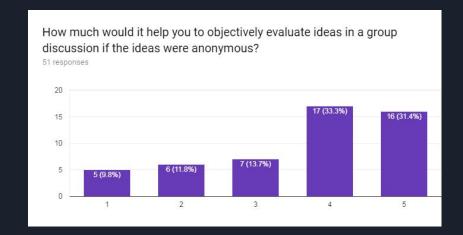




Needfinding







Quotes

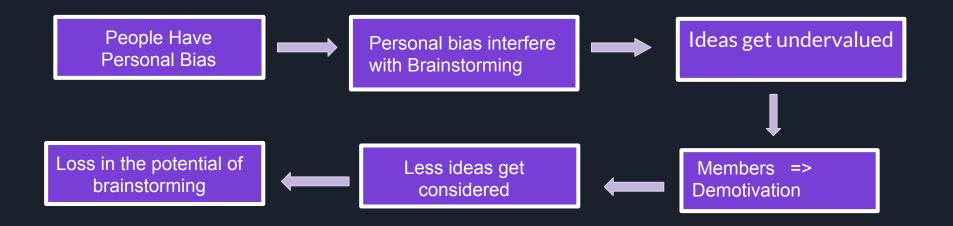
"A person with a bad track record (either attitude wise or technical capability wise) will have thier ideas looked down on more often (if ideas are even considered)"

"If someone simply appears to be smart, their ideas may get taken more seriously"

"You might also consider your friend's ideas more than other people in the group"

"In my experience I think it's not so much liking or disliking an individual but having positive or negative previous group experiences with them."

Problem

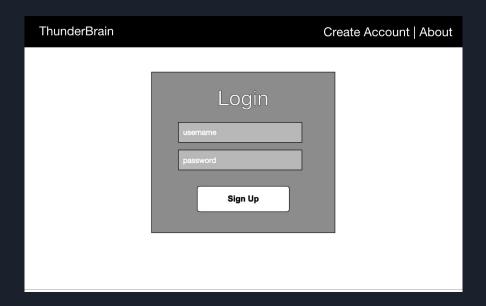


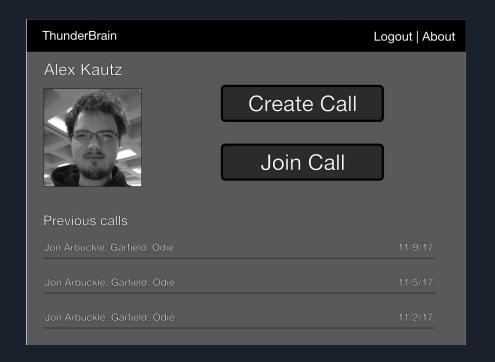
Solution

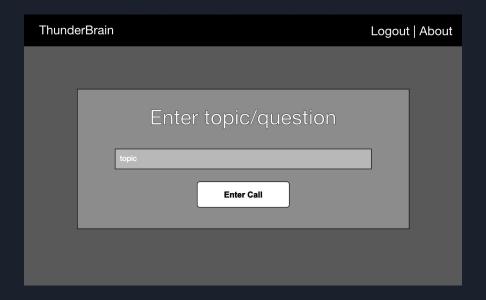
- ThunderBrain
- Brainstorming WebApp
- Anonymous ideas
- Video chat
- Voting

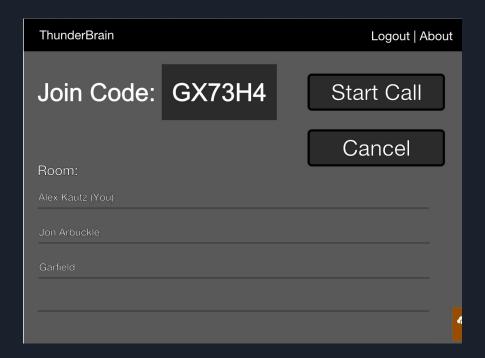
Paper Prototype design

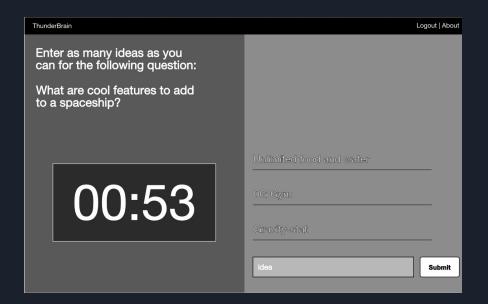
- 3-4 people in control group, 3-4 in experimental group.
- Control:
 - Brainstorm ideas with no structure
- Experimental:
 - Collected written ideas
 - Lead voting and discussion for each of the ideas
- Recorded actions, and results

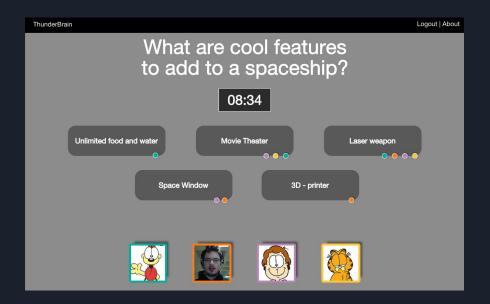


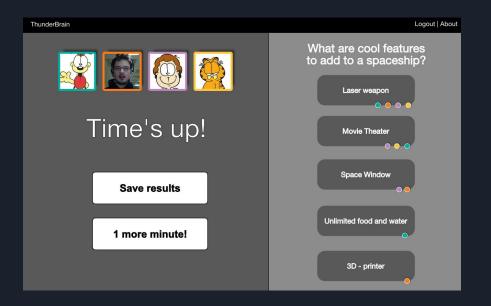












Tech Stack

Front-End







Back-End









Testing and Validation

Control and Experimental groups

- Two pairs of Control and Experimental groups, each pair given different topics
- o Control: Put on Skype to brainstorm over ideas together
- Experimental: Put on Thunderbrain to brainstorm over ideas together

Testing and Validation

- Not enough data for a P-test
- Post-Session Survey Quotes:

"I felt pretty comfortable sharing my ideas anonymously, I think it was pretty easy going"

"It was super insightful to be able to collaborate with other people on a really nice interface that was incredibly clear. It was very nice to use! That and the video chat was super nice."

"I liked the anonymity, the way the voting worked in the end (clicking on as many options as you wanted) was also good"

Results and Conclusions

- We can't confirm that Thunderbrain eliminates personal bias
- Thunderbrain definitely gives users confidence in their ideas
 - "Bottom-up" versus "Top-down" brainstorming methods
 - Pros and Cons to each
- Thunderbrain is a tool for top down brainstorming
 - Eliminates need for a dedicated moderator

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