

Robinhood Mobile Application Redesign



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Introduction

- Robinhood is a U.S based financial service company.
- The company has a smartphone mobile application where users can invest in public companies and exchange-traded funds.
- A public company can be defined as an ownership which is organized via shares of stocks.
- An exchange-traded fund is an investment which is traded on exchange of stocks or more likely the stocks.

User Profile



Avon Smith

A student and a novice user having interest in trading.

- Goals
 - Buying less valued stocks frequently
 - Sell stocks with the price surge
 - Save stocks to watchlist to make a decision
- Frustrations with the previous app
 - When he cannot find a certain stock
 - Unclear instructions while buying and selling stocks.



Catherine Johnson

A Stockbroker for three years who does high volume trading

- Goals
 - Buying the stocks of companies with good price history
 - Wait till there is a huge increase in the price of the stock
- Frustrations
 - When he cannot find a certain stock
 - When price prediction is wrong
 - When prices of stocks change on checkout.

Methods

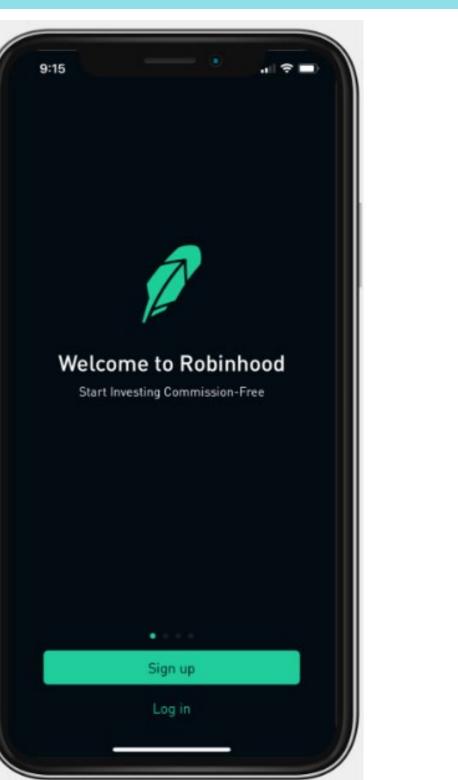
- Data collection for an original and new design:
 - User survey: understand user groups
 - User interview: observed the engagement with the features on Robinhood Mobile application
 - Design evaluation: based on Nielsen's Usability Heuristics
- Prototype design:
 - Initial prototype evaluation
 - Low-fidelity wireframes ideas jotted down on paper
 - High-fidelity prototype using Just in Mind

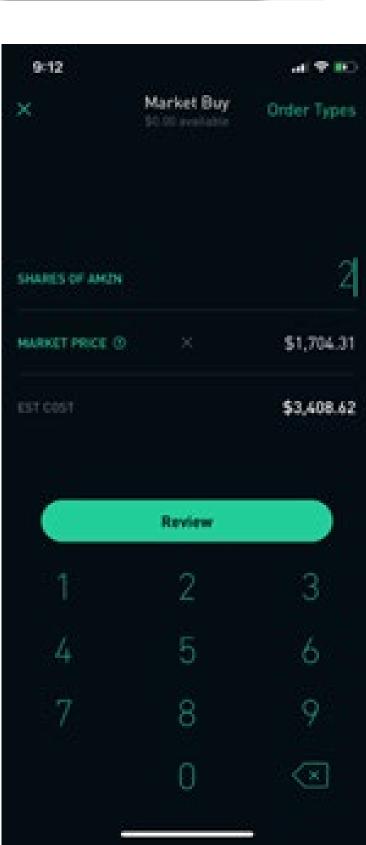
Usability Metrics

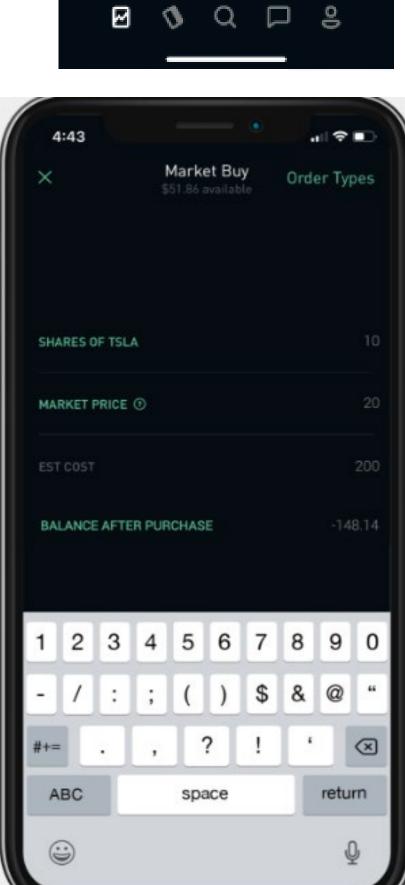
- Visually Appealing
- User survey to figure out the perspective of prospective user.
- Ease of use
 - Qualitative metric
 - > Deduced by monitoring user interaction on similar applications
 - Compare number of steps required to accomplish a task on Robinhood
- Efficiency of a task performed
 - Use of Recall and Recognition
 - > Weigh in the number of errors user makes while performing a task.
 - Time saved over a task for e.g. use of one click systems versus long pending tasks.

Prototype









Tesla

State

TODAY'S VOLUME

Trade

\$333.38 🕣

₹ \$0,3500 (0.11%) After Hours

Findings

User interview survey evaluation:

- There is high cognitive impetus on the user on the search page owing to the content including stock stats, graphs and news pertaining to stock.
- > Stock screen time frame selection buttons are too small (Fitts's law)
- ➤ Difficult for users to navigate to historical stock prices with graph walkthrough.

Suggestions:

Tesla

\$333.38 ⊙

¥ \$3.17 (0.94%) Today

Time in PST:

1D 1W 1M 3M 1Y 5Y 1

Trade

Value in \$:

5,534,190

- Create tap target buttons of size at least equal to 44 points as opposed to original 28 points
- Provide a search tool to fine grain search results.
- Reduce the amount of content especially related stock stats and news.

Conclusion

- Based on our usability testing results, we have produced a redesign that addresses specific user pain points.
- Improvements include:
 - Reduce the content in the stock page
 - Increase button tap size targets.
 - Include a search bar to fine grain search based on date
- Add new features to help the user to use Robinhood to its fullest potential.
- Reduce number of steps for
- Calculations
- Future iterations could work on:

Acknowledgement

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