

Project Plan Presentation

Sharing Advice on Academic Harassment

The Capstone Experience

Targets' Tip

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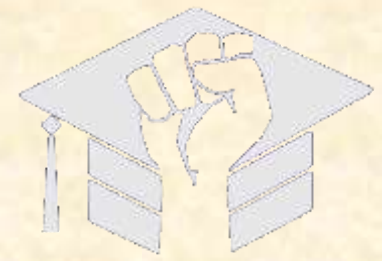


*From Students...
...to Professionals*

Department of Computer Science and Engineering
Michigan State University

Fall 2022

Project Sponsor Overview



- Currently an Assistant Professor at the Department of Radiology and Precision Health Program
- Studied at several universities and saw the issue of academic harassment/experienced it firsthand
- Wanted to research the causes
- Co-founded a non-profit organization called Academic Parity Movement
- Over 10,000 emails saying survivors want to help



Project Functional Specifications

- No easily accessible and trustable resources available to targets of academic harassment
- Targets, survivors, and professional advisors can create accounts
- Subscribers are matched and able to chat
- Severe lack of data available for those working to make academia a safer space
- Collects instance data to create a meaningful report for administrators

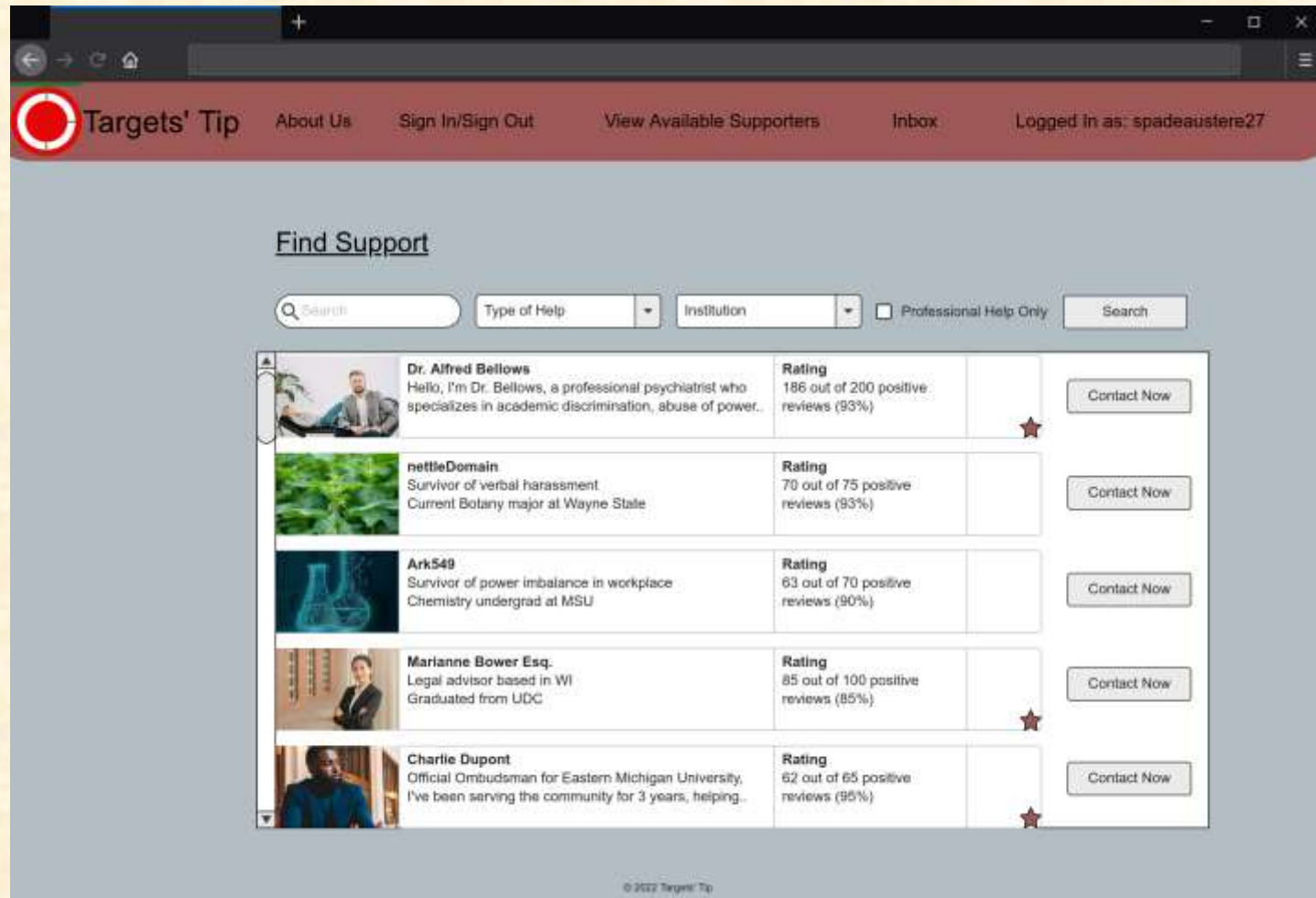


Project Design Specifications

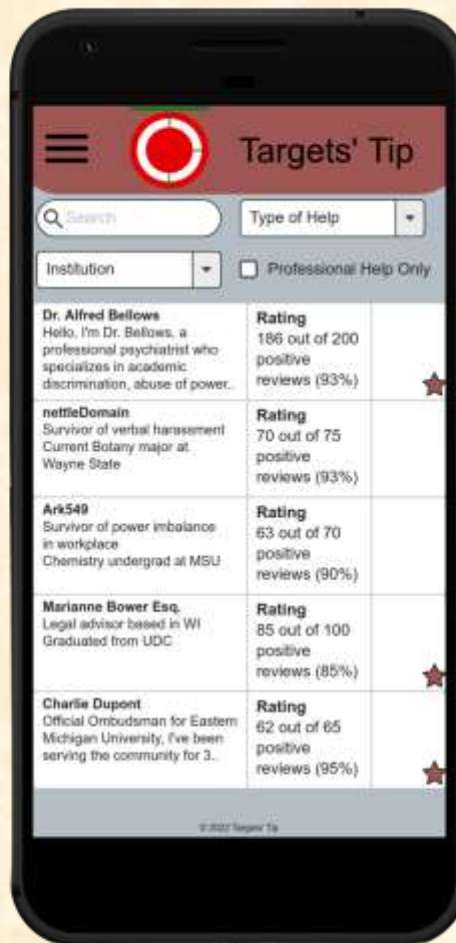
- Uniform user interface across web, IOS, and Android applications
- Personalized matching of targets and supporters
- Chat feature between targets and supporters
- Ratings on supporters
- Customizable/filterable administrator dashboard for building reports



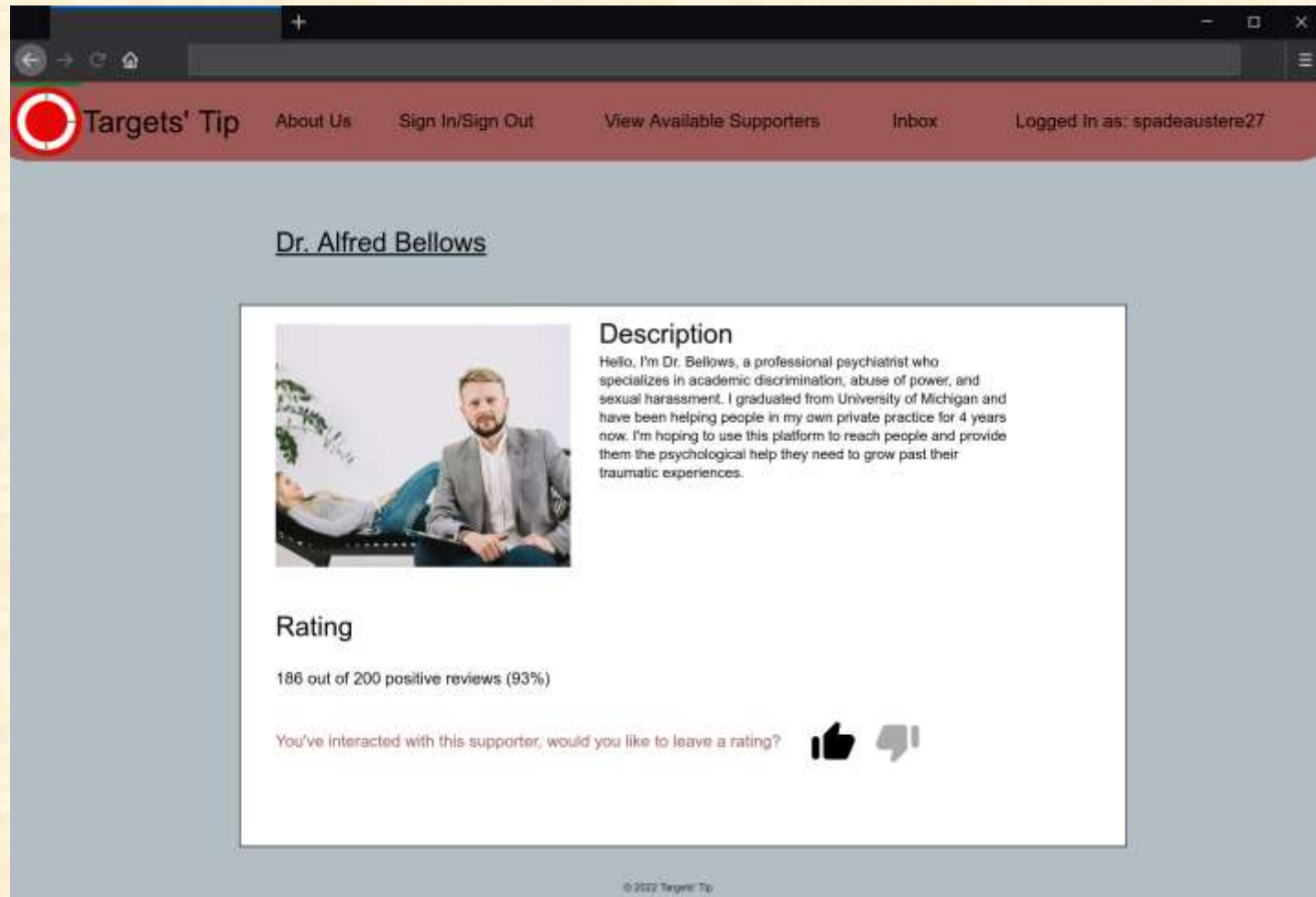
Screen Mockup: List of supporters page



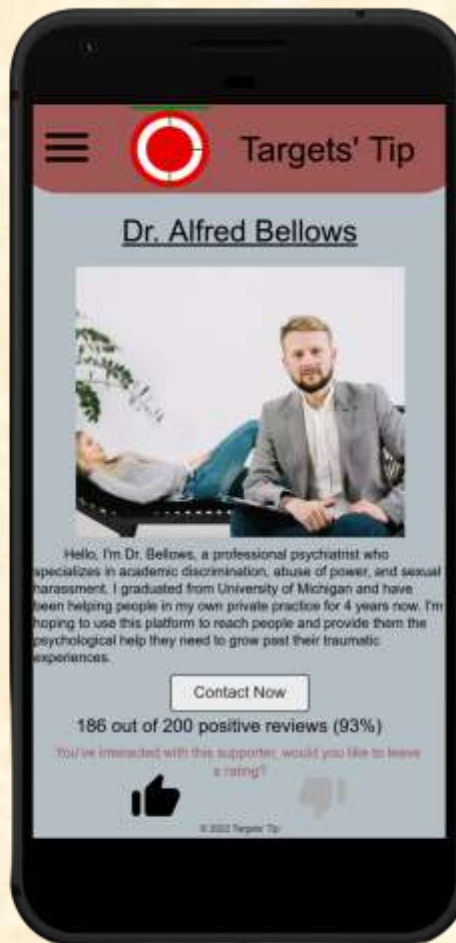
Screen Mockup: Mobile view of supporters



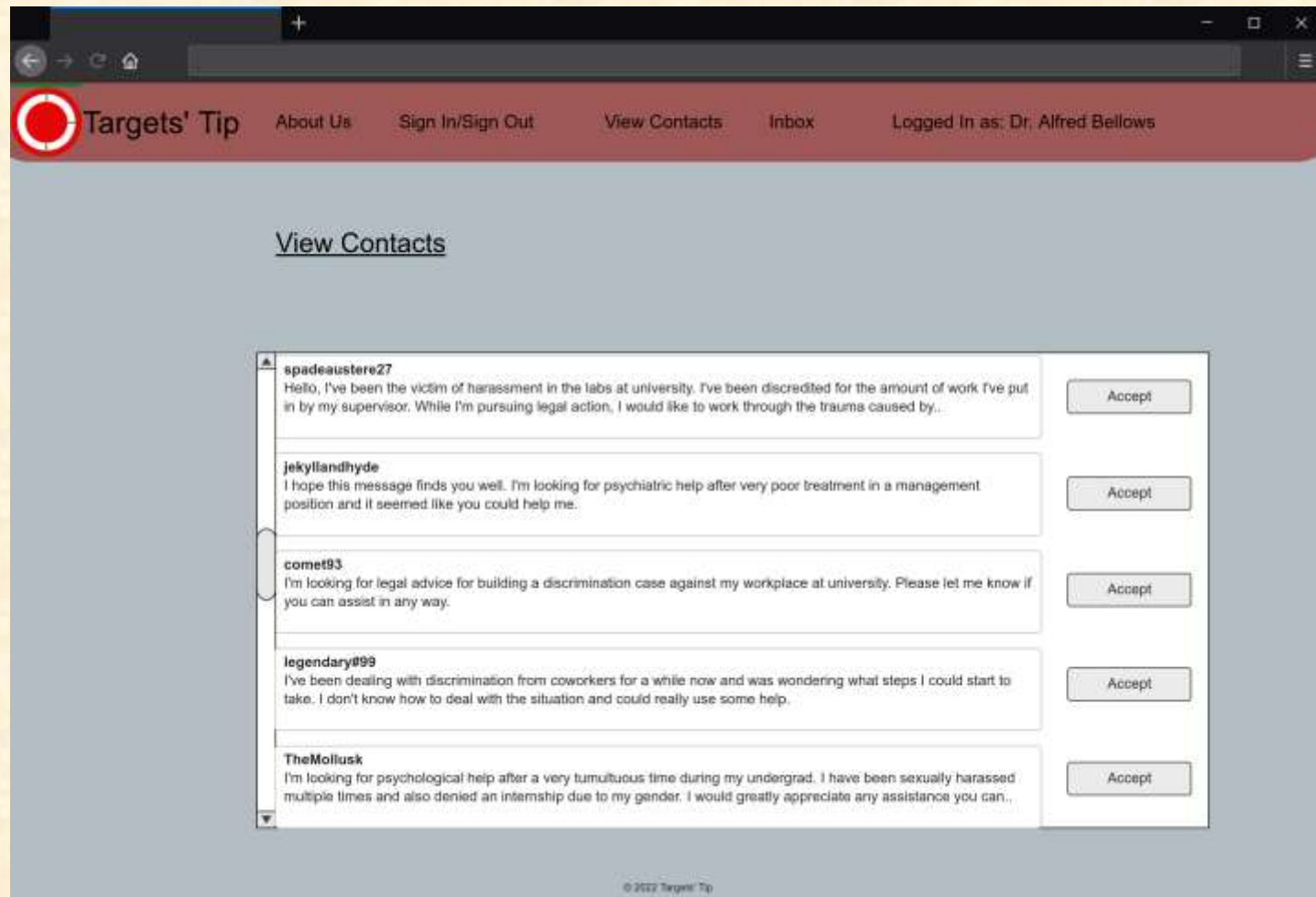
Screen Mockup: Supporter profile page



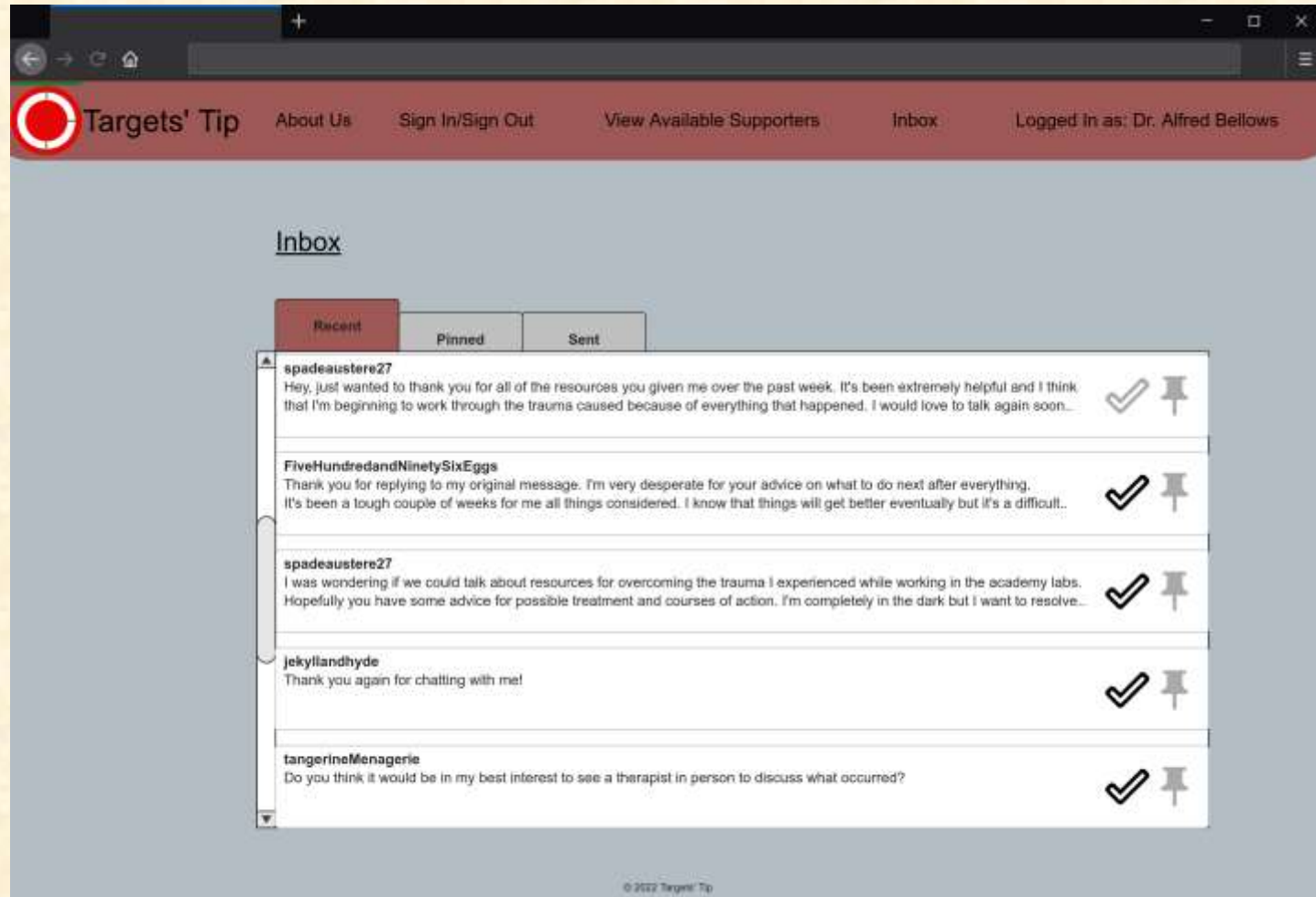
Screen Mockup: Mobile view of supporter profile



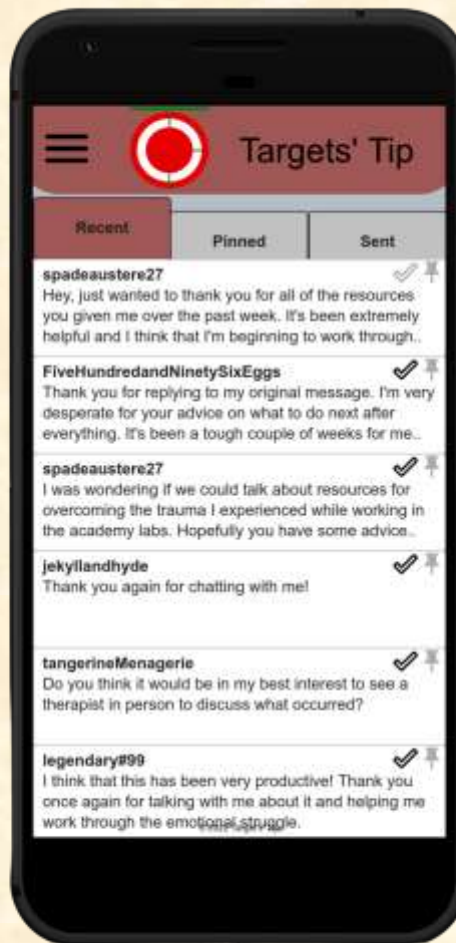
Screen Mockup: List of targets page



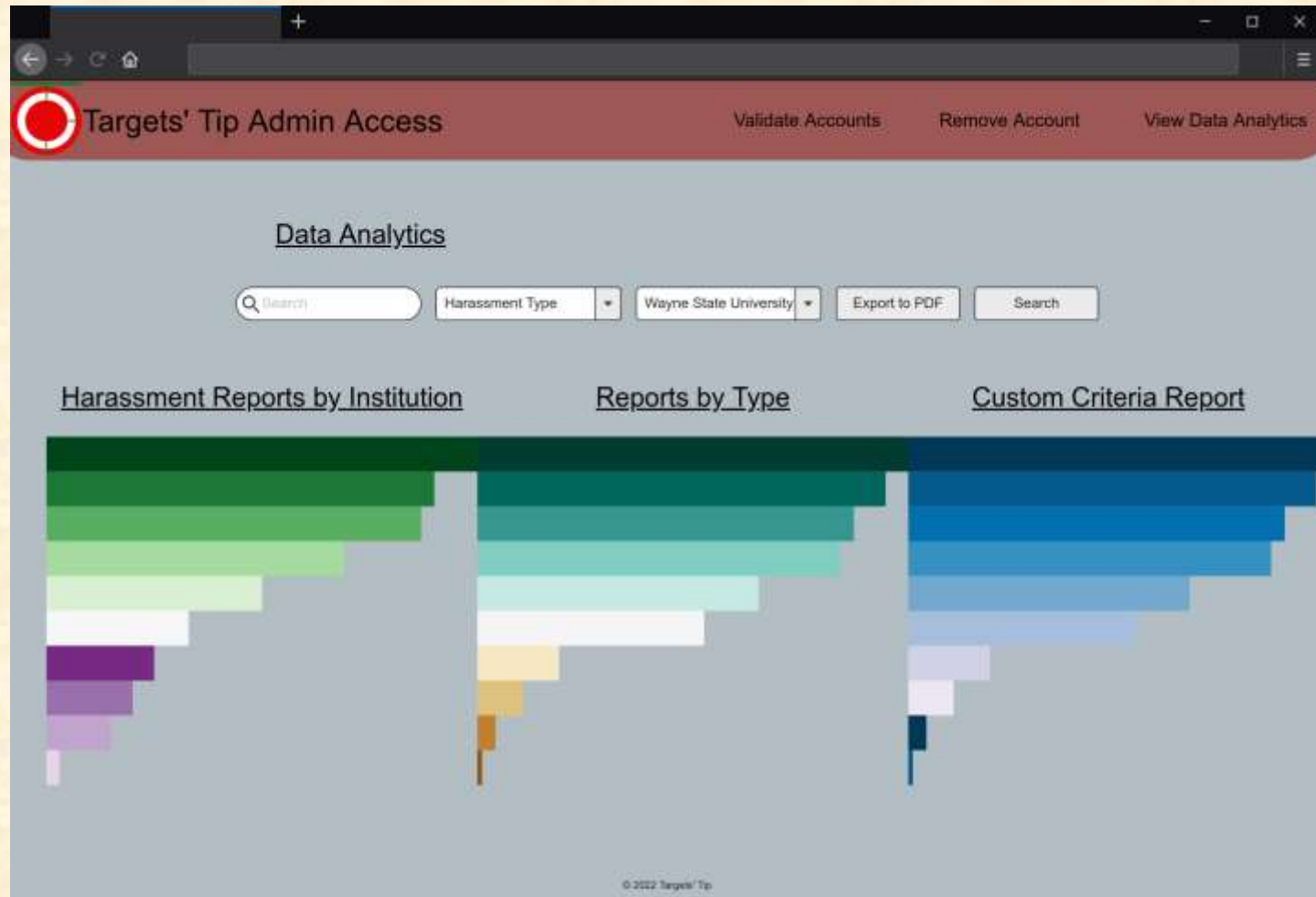
Screen Mockup: Inbox page



Screen Mockup: Inbox page mobile view



Screen Mockup: Administrator dashboard

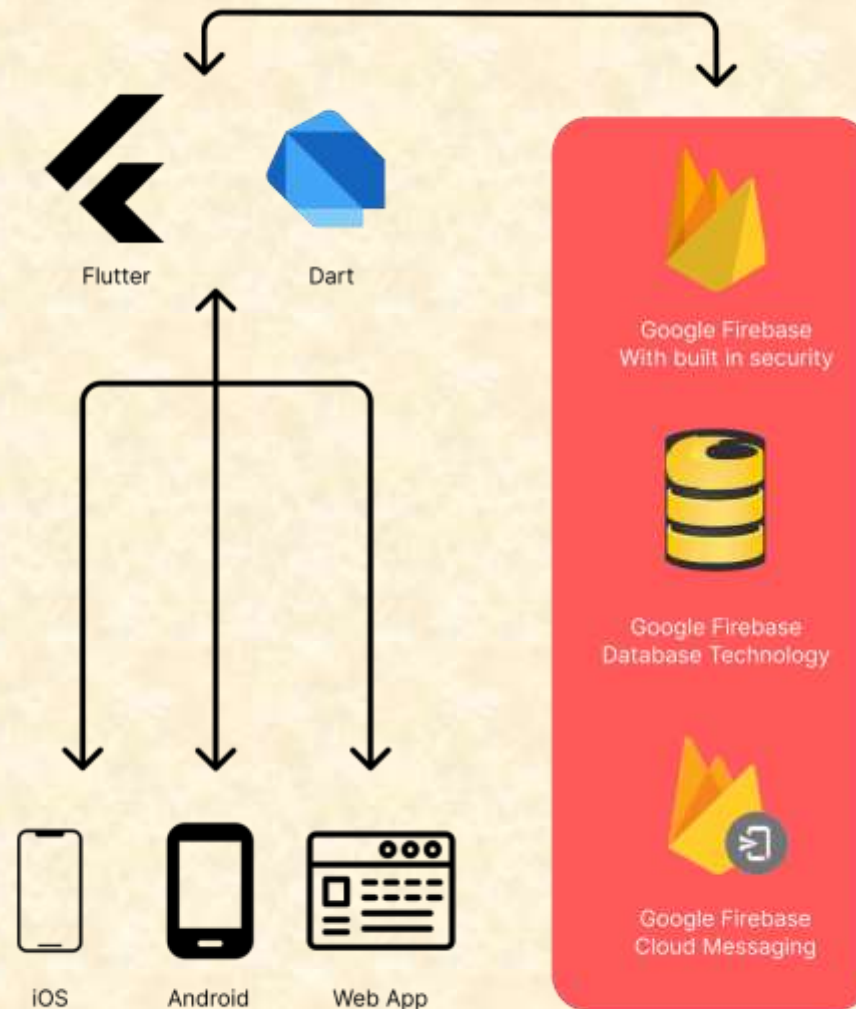


Project Technical Specifications

- Utilizes an SDK called Flutter
- Uses a native language called Dart
- Utilizes Google Firebase for inter-device communication



Project System Architecture



Project System Components

- Hardware Platforms
 - Android
 - IOS
 - Web
- Software Platforms / Technologies
 - Xcode
 - Android Studio/Visual Studio
 - Flutter SDK
 - Google Firebase
 - Google Firebase Cloud Messaging



Project Risks

- Developing a user-friendly UI design
 - Needs to be easy and intuitive to use
 - Create prototypes and share them with the client
- Keeping user data safe and secure
 - Imperative that information from harassment reports is secure
 - Encrypt data when it is uploaded and decrypt when it is queried
- Managing development on three platforms
 - Must be available on IOS, Android, and web platform
 - Learn and work with Flutter to develop one UI
- Open-source software licensing
 - Use Flutter to keep UI consistent
 - Acquire proper licensing and acknowledgment in the README



Questions?

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