Software Engineering Lab

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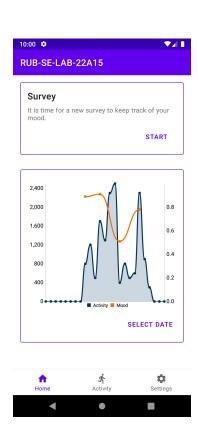
- Product Pitch
 - Home Screen
 - Survey/ Mood Recording
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 - Firebase cloud storage

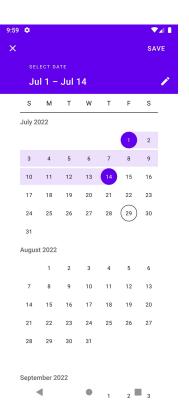
- Learning / Process Reflection
 - Programming, Libraries and Tools
 - Soft Skills and Management

Product Pitch

Home Screen

- Survey Start
- Activity Statistics
 - Based on recorded data and survey results
 - Selectable Time Range
 - Vertical zoom of the diagram

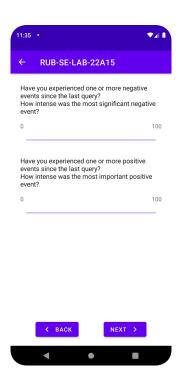




Survey/ Mood Recording

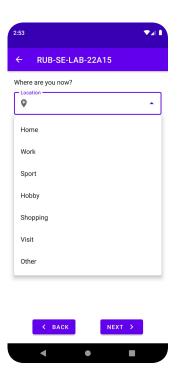


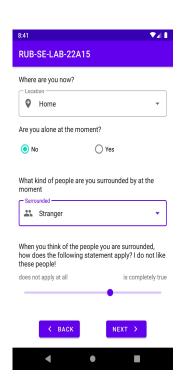


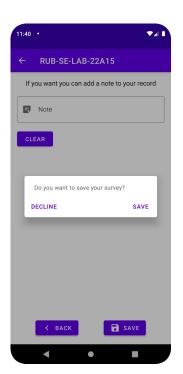


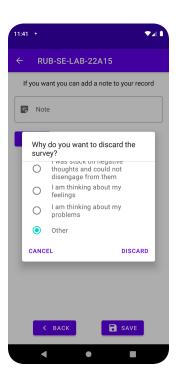


Survey/ Mood Recording



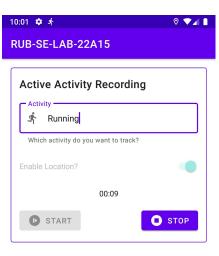


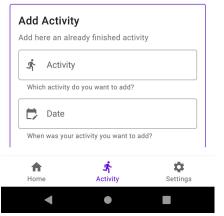




Activity Recording

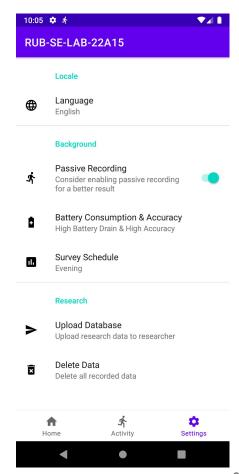
- Active activity recording
 - activity name
 - gps opt in
 - start/ stop
 - clock
- Add passed activity
 - activity name
 - date selection





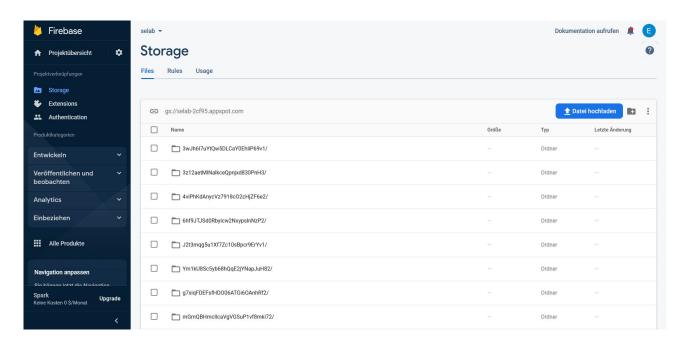
Preferences

- Opt in passive recording
- Battery Drain/ Accuracy Drop Down Menu
- Survey schedule drop down menu
- Upload data pseudonymized to researcher (firebase)
- Delete all recorded data (local)



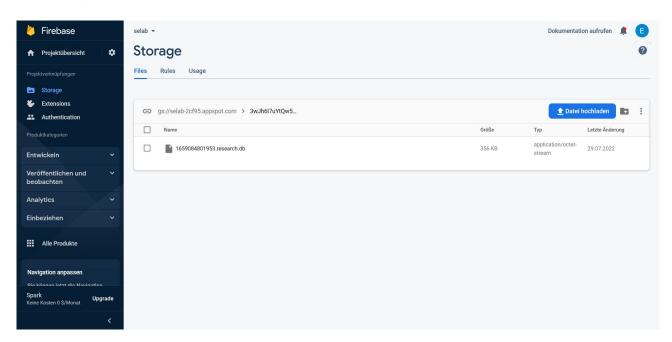
Firebase cloud storage

- Pseudonymized



Firebase cloud storage

- Sqlite database file
- Raw data from recording



Learning / Process Reflection

What have we learned?

Programming, Libraries and Tools

- Android Architecture
 - Sensors
 - Workers
 - Scheduler
 - Notifications
- Database programming and data storage
- Material Design
 - https://material.io/components?platform=android
- MPAndroidChart
 - https://github.com/PhilJay/MPAndroidChart

Programming, Libraries and Tools

- Working with Git and GitHub
 - Source code distribution
 - Version control
 - Handling merge conflicts
 - creating pull requests
- Using Android Studio effectively
 - Refactoring
 - Debugging
- Firebase
 - Authentication
 - Security Rules
 - Cloud storage
- Google Docs for collaborative working on assignments
- Creating UML diagrams with <u>draw.io</u>

Soft Skills and Management

- Working in a team
- Time management
- Task distribution
- Dealing with disagreements
- Arranging regular appointments

Thank you for your attention