Adaptive App Guardian
- Adaptive Security Questions

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Introduction
Goal: Generate Unique Dynamic Questions that are good enough to replace Static Passwords
- Questions are Personalized and in Multiple Choice format
- Questions are based off of Calls, SMS Messages, Location, and Activity History
- Logs are regularly updated and analyzed for trends
- Want to find outliers in trends for questions

Approach
- Develop an Android application that runs a logging Service
- Export logs to analyze remotely
- Create simple questions
- Distribute application
- Adjust questions according to feedback

Location and Activities

Location Comparisons

Activity Comparisons

Call History

Uniqueness

Analysis

- Find outliers of call history
- A day with significantly more times of calls
- A person has significantly more contact than other people on a day
- E.g. Which day did you make most of calls in last week? Who did you contact most on ...

Progress
- Developed logging application
- Analyzed logs
- Generated 8 questions
- Distributed only between us

Gained Experience
- Team Development using Git
- Android Development
- Dealing with Large Amount of Data
- Extended Project Scheduling
- Android Security Mechanisms