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Anti-Theft Guard

Description

Thousands of phones are stolen every day. Most of these phones are stolen at times when people are travelling and are less focused on the whereabouts of their belongings. Not only a phone-theft leaves you with lesser cash in your pocket, it also creates a potential privacy breach for your personal data, pictures and other documents. Thus to protect your phone, we have created an application that will be able to detect when your phone has been taken out from your Bag/Pocket and sound an Alarm.

Intended User

All people including students, travellers, working-people, train-commuters, bus-commuters can use this application to protect their phones.

Features

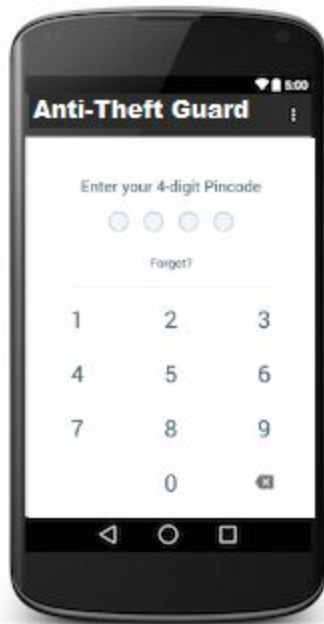
The main features of the app include:

- Prevents Phone Theft (by sounding a Loud Alarm)
- Takes Intruder Pictures(compresses them and sends them to the user's email)
- Uses built-in device sensors
- Prevent Volume decrease/Phone switch-off during alarm.

User Interface Mocks

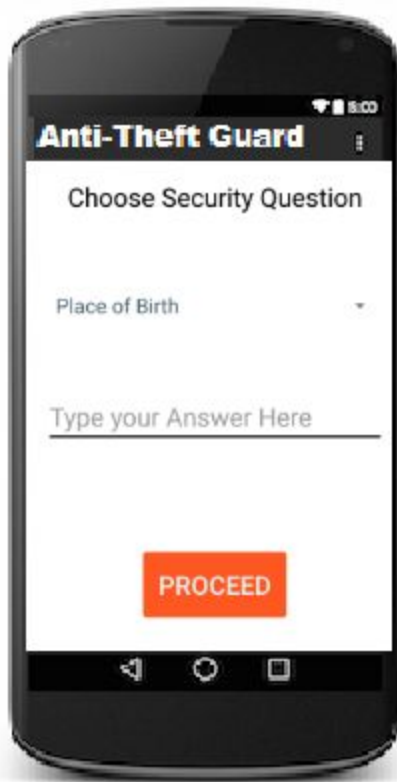
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



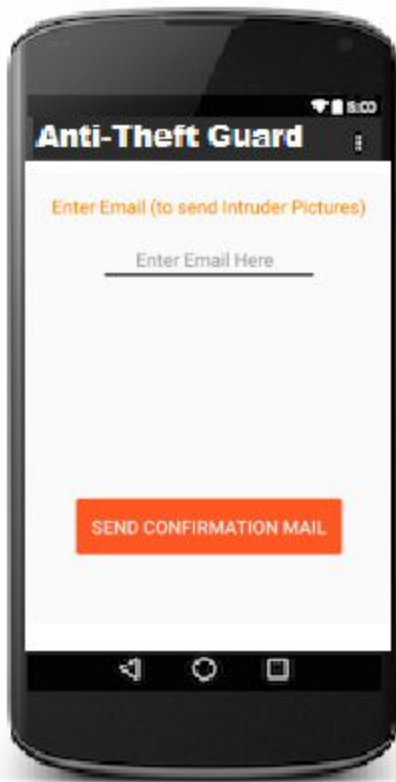
Login Screen to prevent unauthorized access to the application (At the time of installation the user would set up the password); The user will also be able to change this password later.

Screen 2



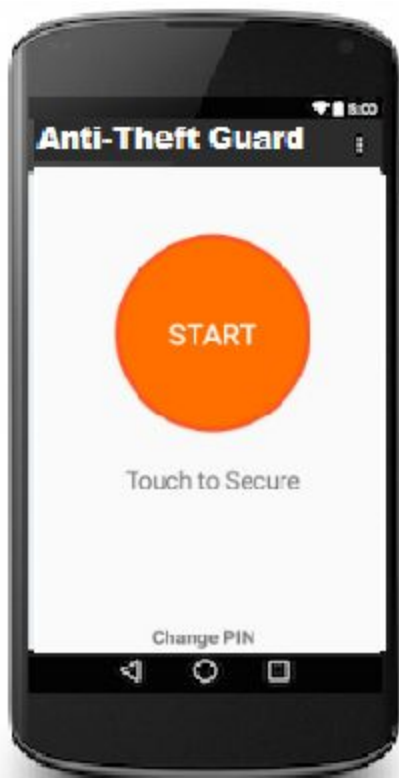
Security Question and Answer to reset the password in case the user forgets it.

Screen 3



Email Id (will be confirmed by a confirmation mail) to send intruder pictures

Screen 4



Start Protection(Main Screen); It would also have a settings menu to change alarm audio, number of intruder pictures to take, set app active time.

Key Considerations

How will your app handle data persistence?

Only a few data values will need to be stored so SharedPreferences would be a used.

Describe any corner cases in the UX.

Around 5 sec time to keep the phone in the pocket/bag after pressing the Start Button.

Required Tasks

Task 1: Project Setup

- Implement Login system into the application along with basic UI.

Task 2: Implement Services and AsyncTasks

- Task to send confirmation mail
- Task to send Intruder pictures to email
- Service to listen for sensor reading changes
- Service to prevent Shutdown

Task 3: Implement Proper Hierarchy between Activities

- Link activities and services together.

Task 4: Implement Settings Menu

- Settings activity UI and it's backend logic.

Task 5 : Improve UI/Testing/Bug-fixes/Clean Code