

# UNHACK | DESIGN DOCUMENT

# DESIGN DOCUMENT

VERSION 1.0  
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# Problem Statement

## Introduction

The total number of devices connected to the internet is more than twice the population of the world. From TV to spectacles, anything **smart** is potentially monitoring your behaviour for someone. Companies cooperate with many agencies to monitor activities on the internet and mobile network to collect data, contributing to a system of mass surveillance. Imagine, every conversation of every form in the world is accessible to someone. They can track your identity, whom you contact, channel of communication and even your behavioural patterns. All these information could be fatal in the wrong hands.

## Taking guard

First step is to find the current level of security. It is found that some of the applications installed in the smartphone often communicates to other servers without the user's concern. They also gain access to multiple resources to collect data that benefits its publishers. This channel of hidden communication has to be blocked.

## Goals

- (a) Analyze and categorize applications according to their communication intents.
- (b) Prevent any suspicious applications from making any hidden communication.
- (c) Ensure complete removal of sensitive data.
- (d) Monitor and optimize load on the resources available.



## Brand identity

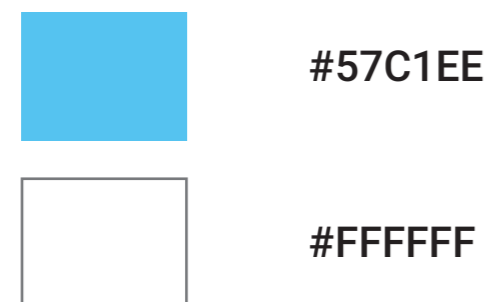
### Logo

The logo is inspired from the Pendulum swings. The shape is a silhouette representing the simplicity of the application. The knobs are animated to show the transfer of energy between the knobs. The energy in the system is never conducted to the outside. Everything that is in the system, stays there. Since there is no loss in energy, its always in balance.

### Primary fonts

Roboto Regular

### Primary color palette



### Color philosophy

Light blue stands for the vertical - as height and depth. The sky above and sea below. It symbolizes trust, faith, harmony, wisdom, intelligence and loyalty.

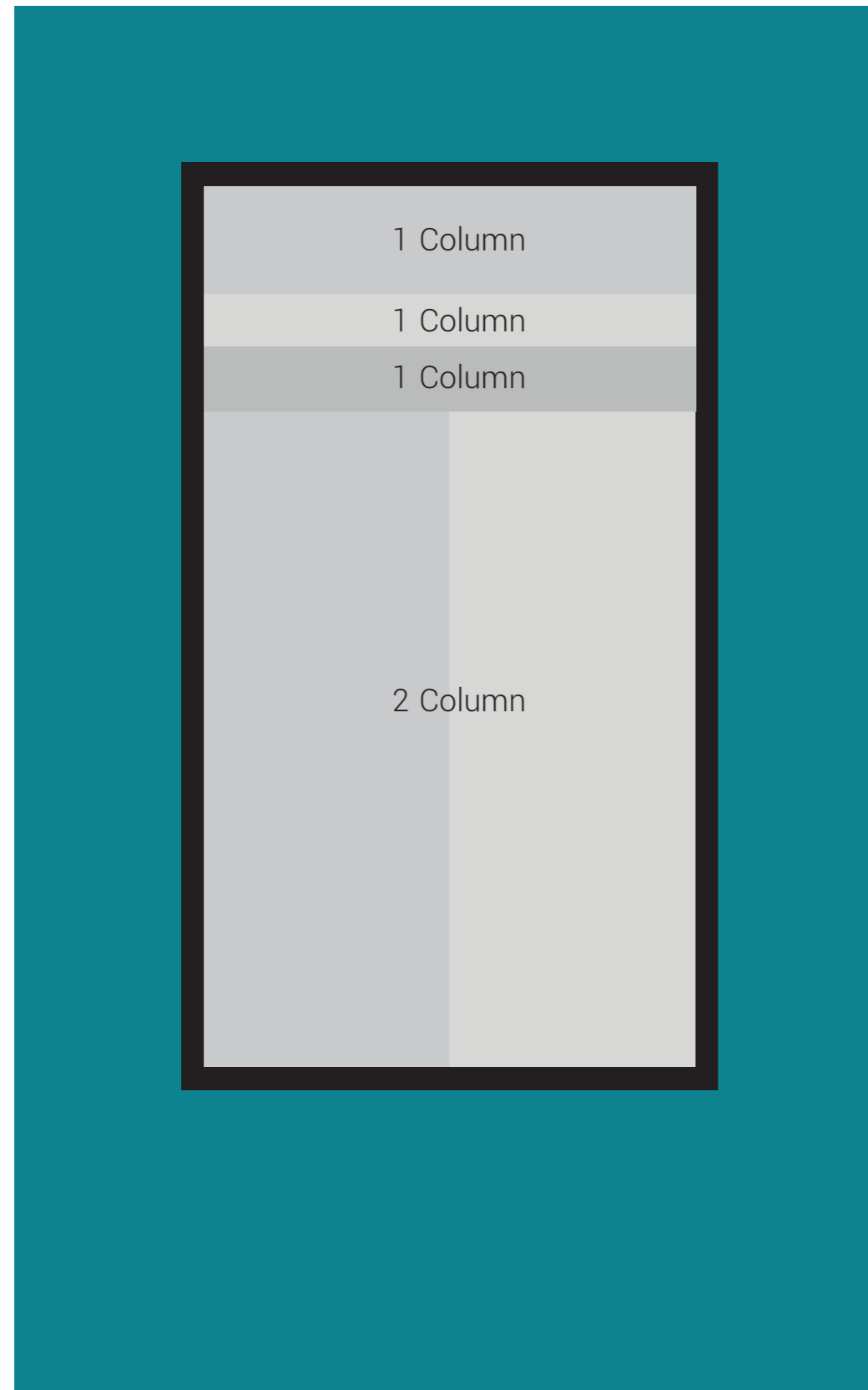
The color white stands for completion, wholeness - perfection.

### Secondary color palette

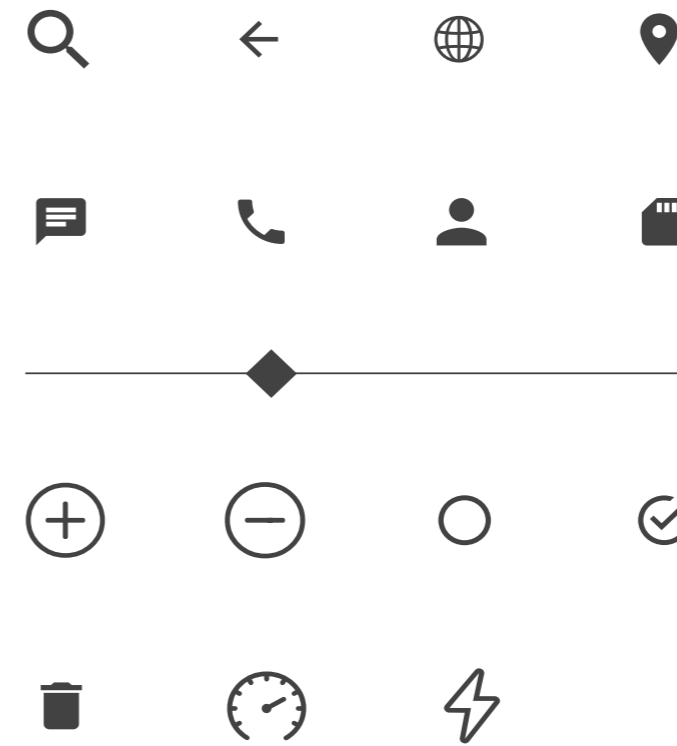


# Layout

## Grid



## Icons

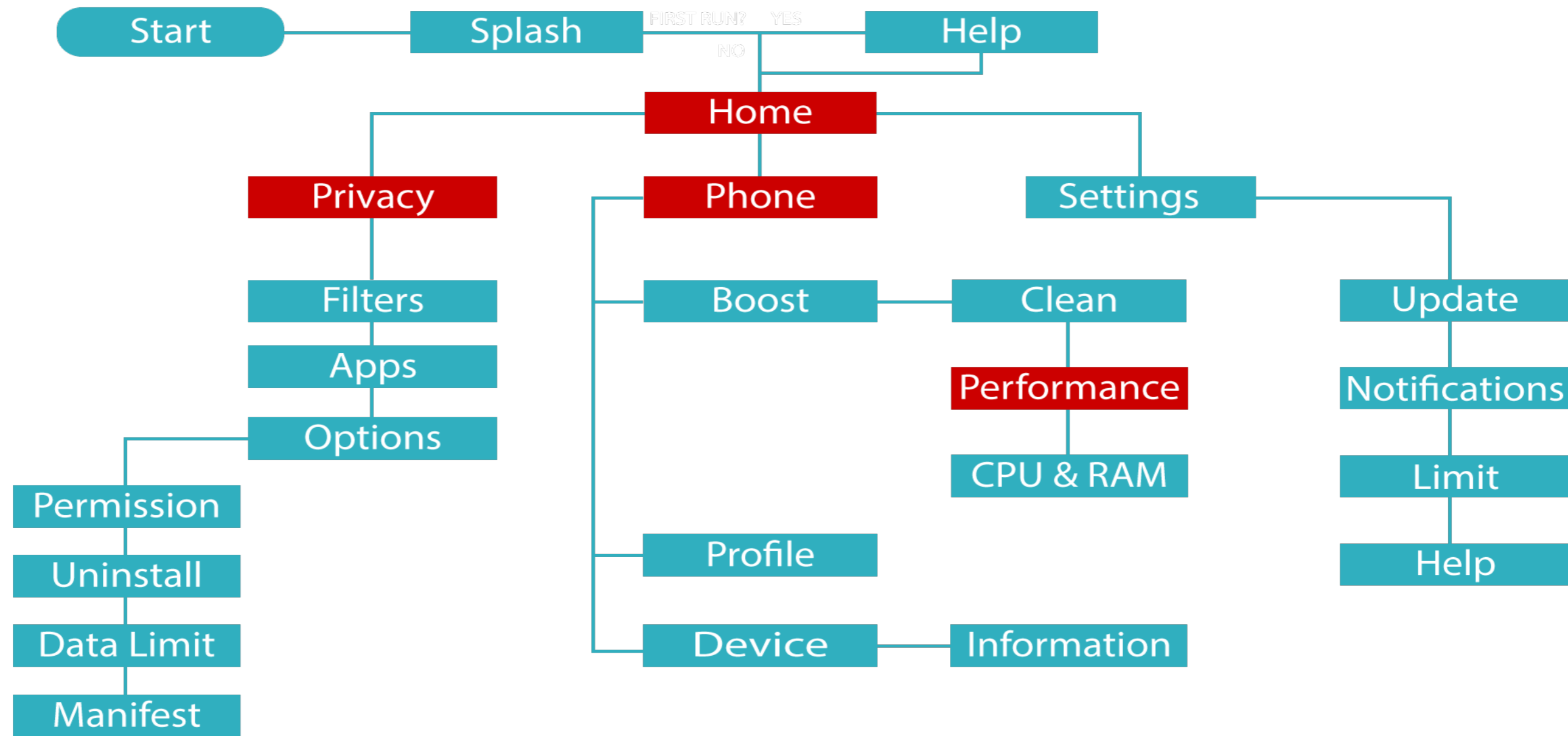


## Hierarchy



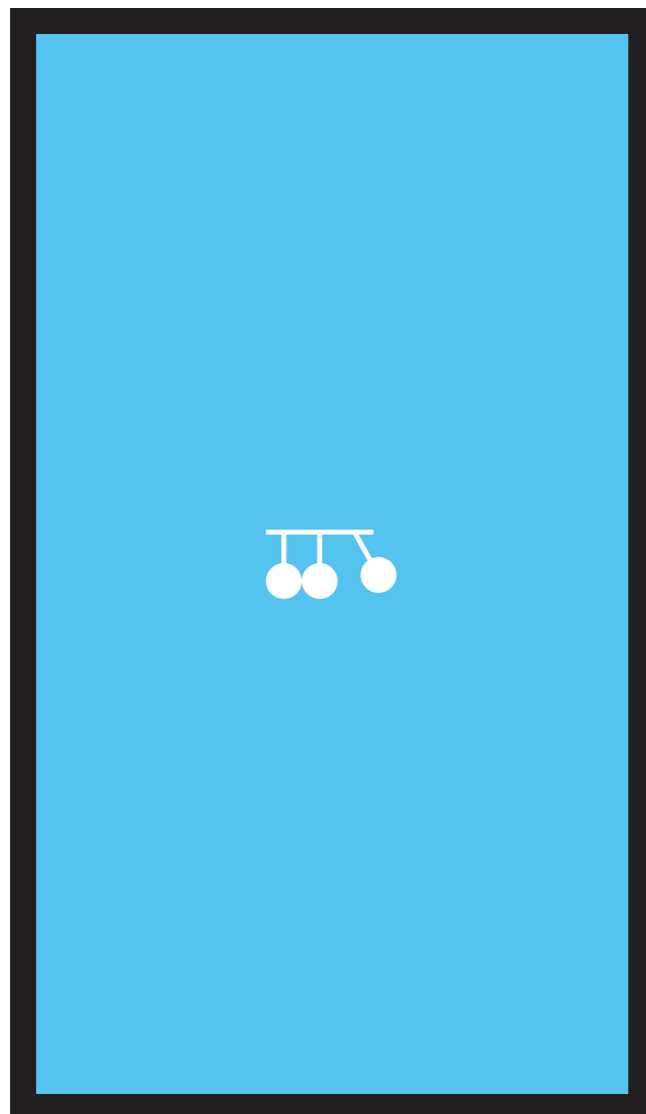
# Implementation Details

Flow chart



# Implementation Details

## Walkthrough



### Loading

The loading screen, which has the knobs animated.



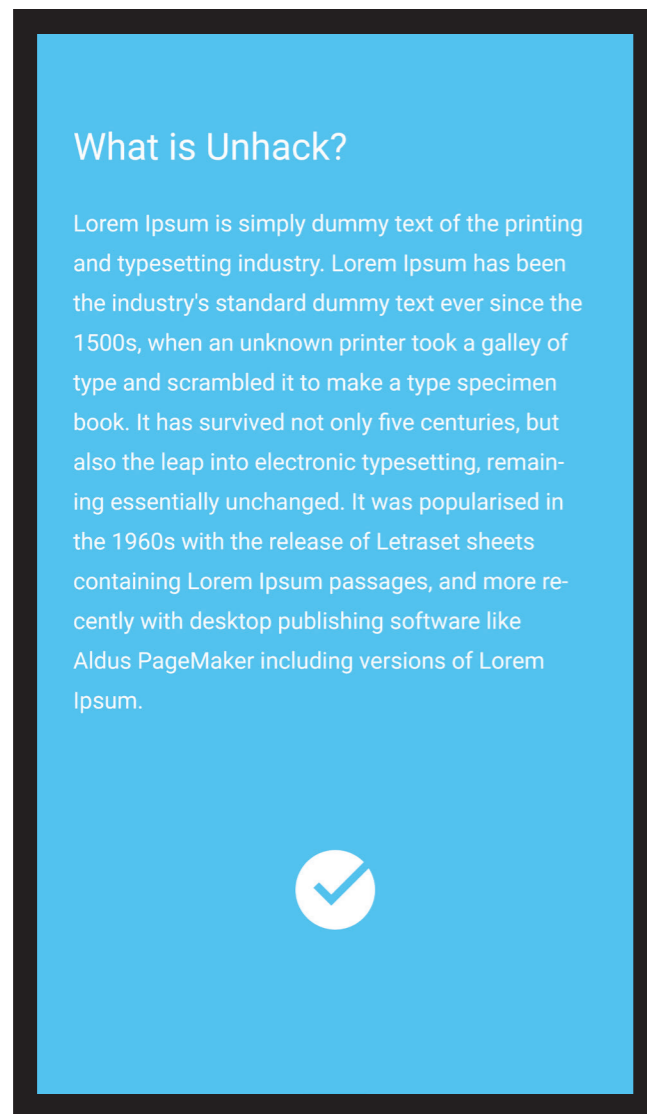
### Splash screen

Application splash screen after the pre-loading is completed.



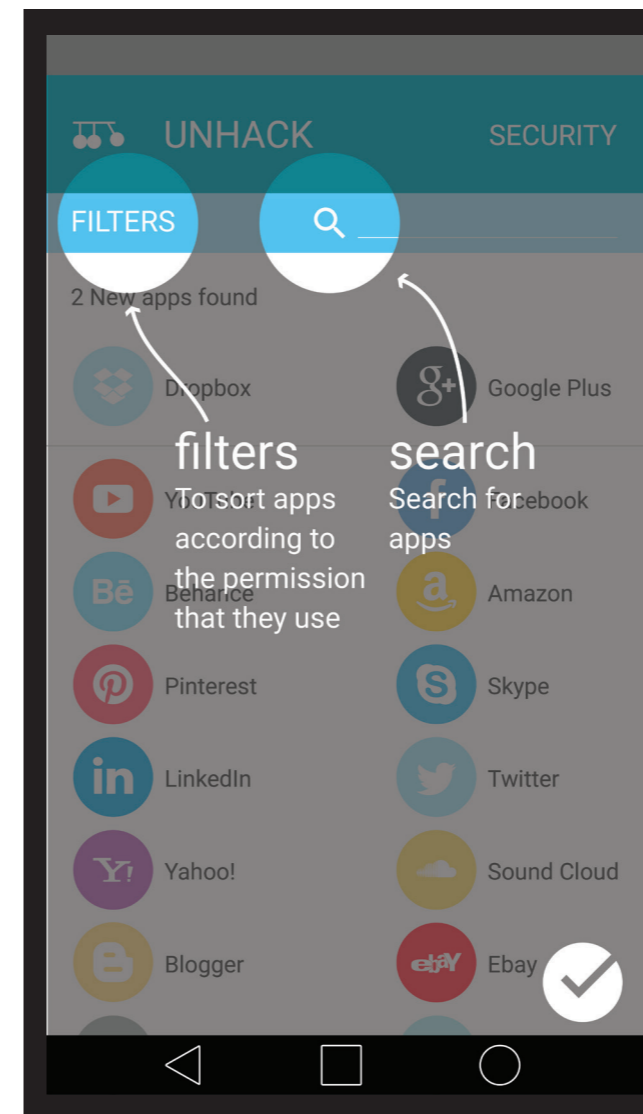
# Implementation Details

## Walkthrough



### Introduction

A brief introduction about the application and what can it do.



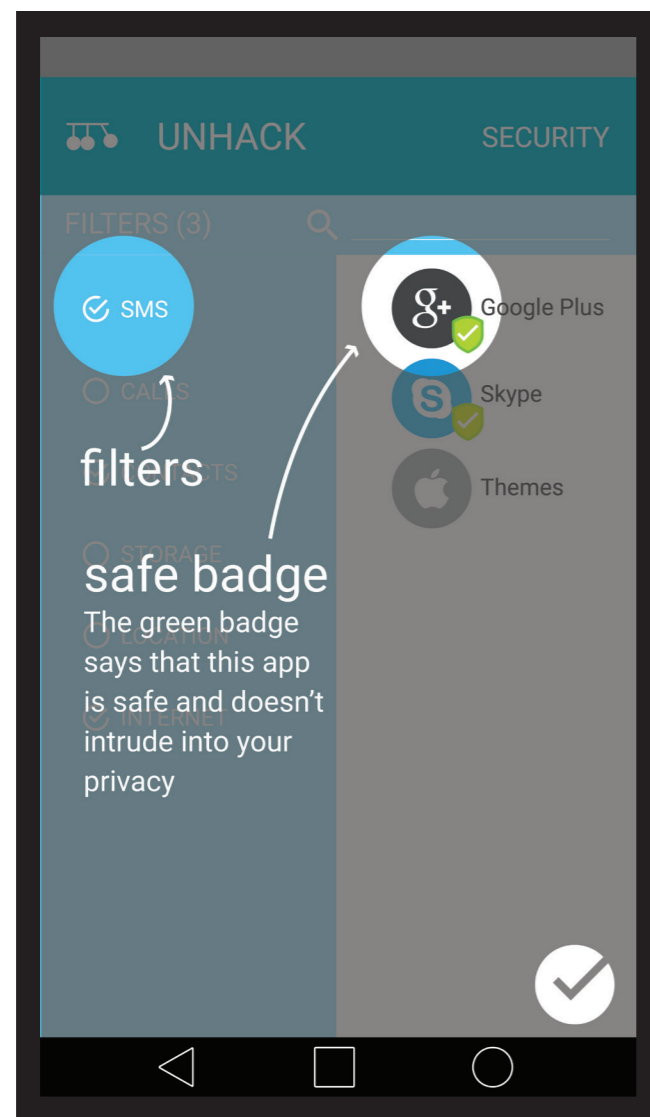
### Tutorial - Step 1

A series of screens explaining what all functions are available for the user.

Here filters and search function is explained.

# Implementation Details

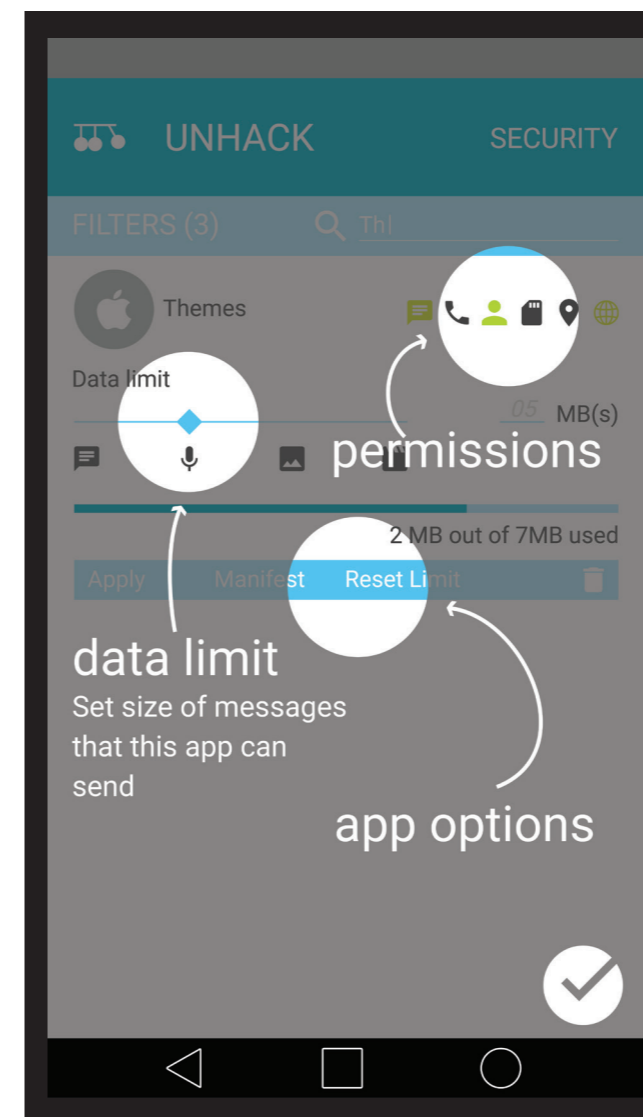
## Walkthrough



### Step 2

#### Filters

Steps to apply filters and the meaning of icons used in the application.



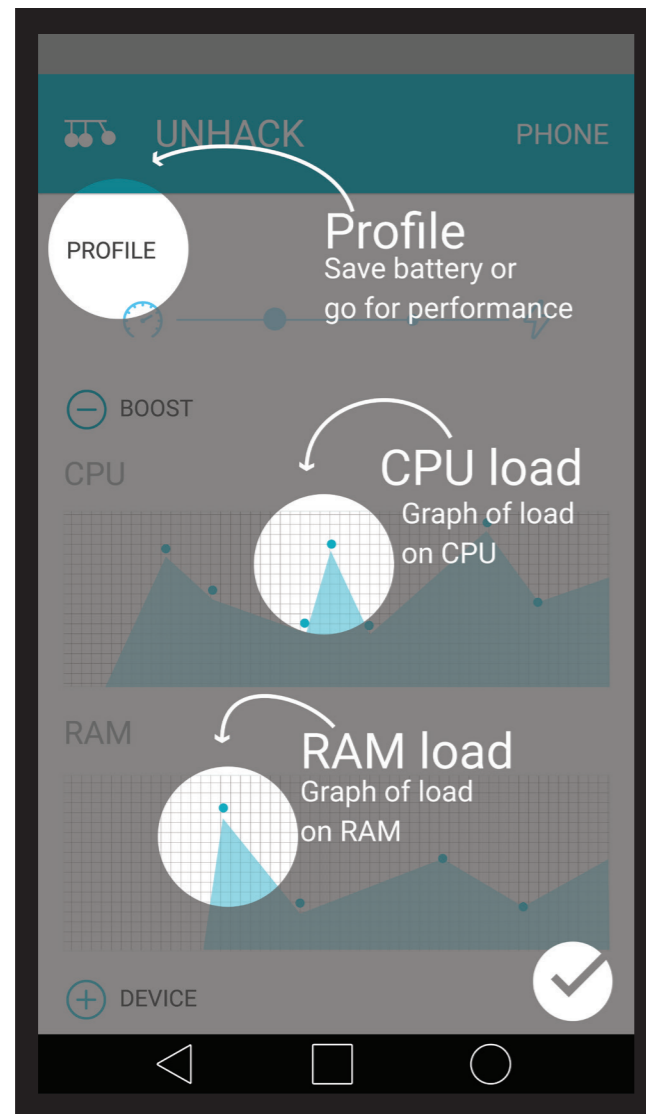
### Step 3

#### Application details

Details of a particular application and what are the controls that the user gets and how to adjust them.

# Implementation Details

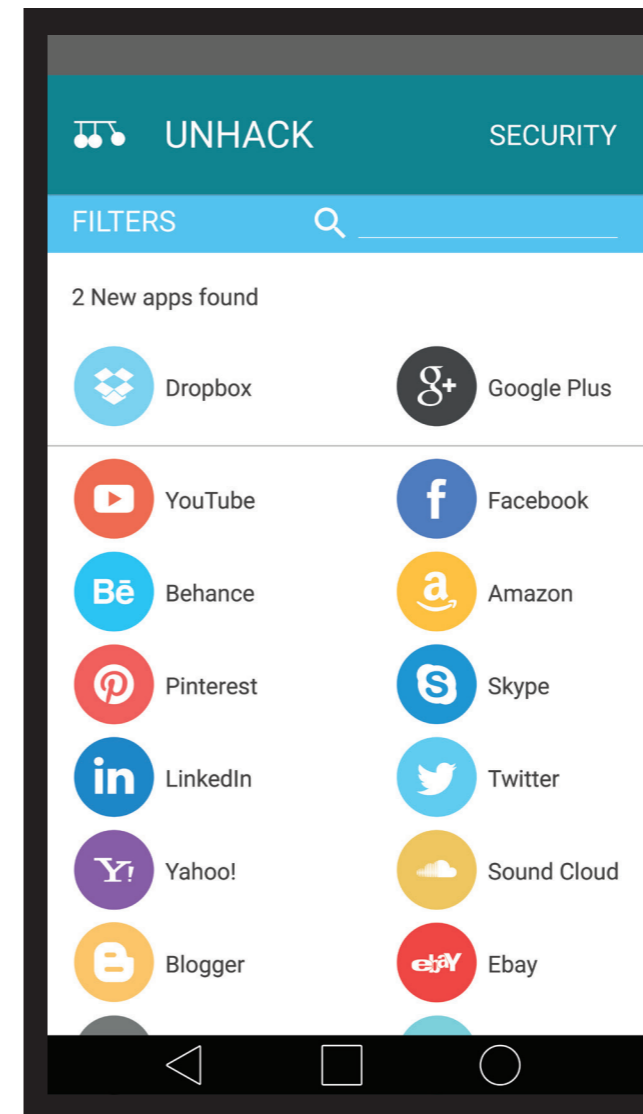
## Walkthrough



### Step 4

#### Phone management

Controls that helps you tweak your phone. This screen explains how to interpret the visuals to understand what is happening in your phone.



### Home screen

Search and filters

New applications

Applications are ordered according to the frequency of usage.

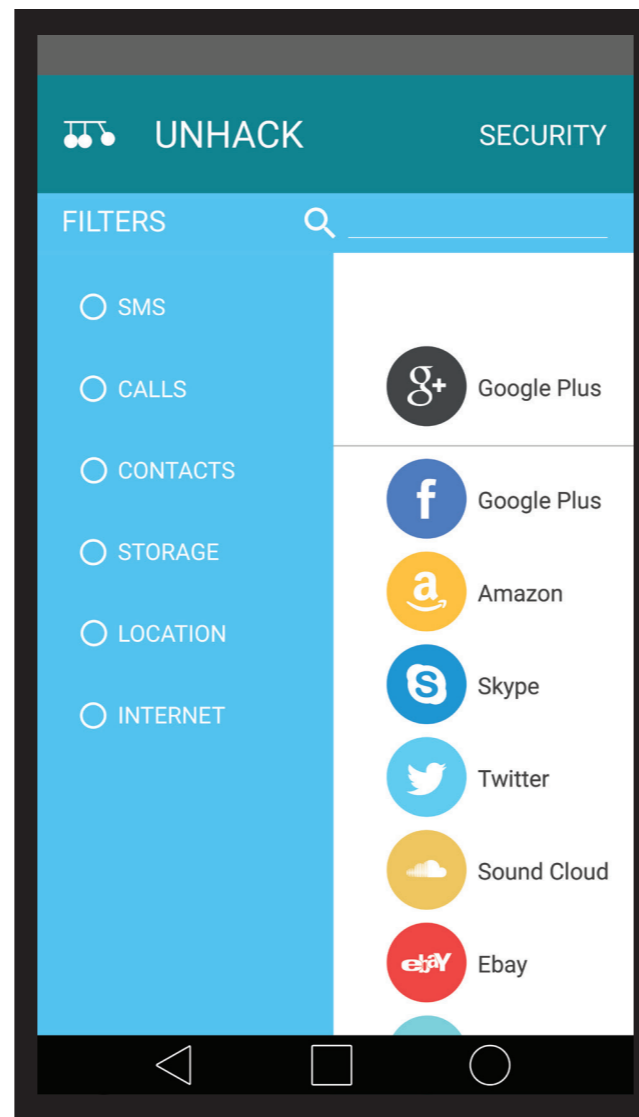
# Implementation Details

## Walkthrough

### Home screen

#### *Filters*

The filters are available from the left side bar menu. They are categorized from offline to online resources that can be accessed by an application.



#### *Home*



The home screen is about privacy security. User can switch to phone settings by swiping to the left.

#### *Applications list*



The applications installed in the phone are arranged according to the frequency of its usage by the user.

# Implementation Details

## Walkthrough

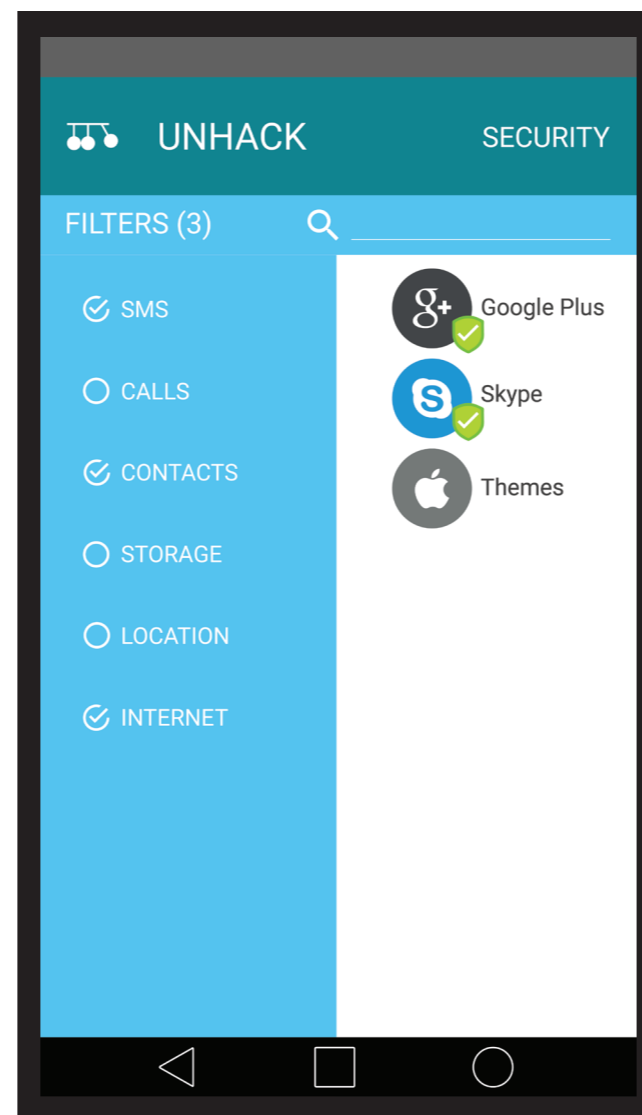
### Home screen

#### Filters

The applications are sorted as soon as each filter is applied. The number of filters applied is also displayed so that the user gets an idea even if the filters menu is in collapsed state.

#### Safe badge

The green symbol on the icons of applications shows that the application has been verified as safe to use by the Unhack team.



#### Filtered result

The filtered results are also ordered according to the frequency of usage.

# Implementation Details

## Walkthrough

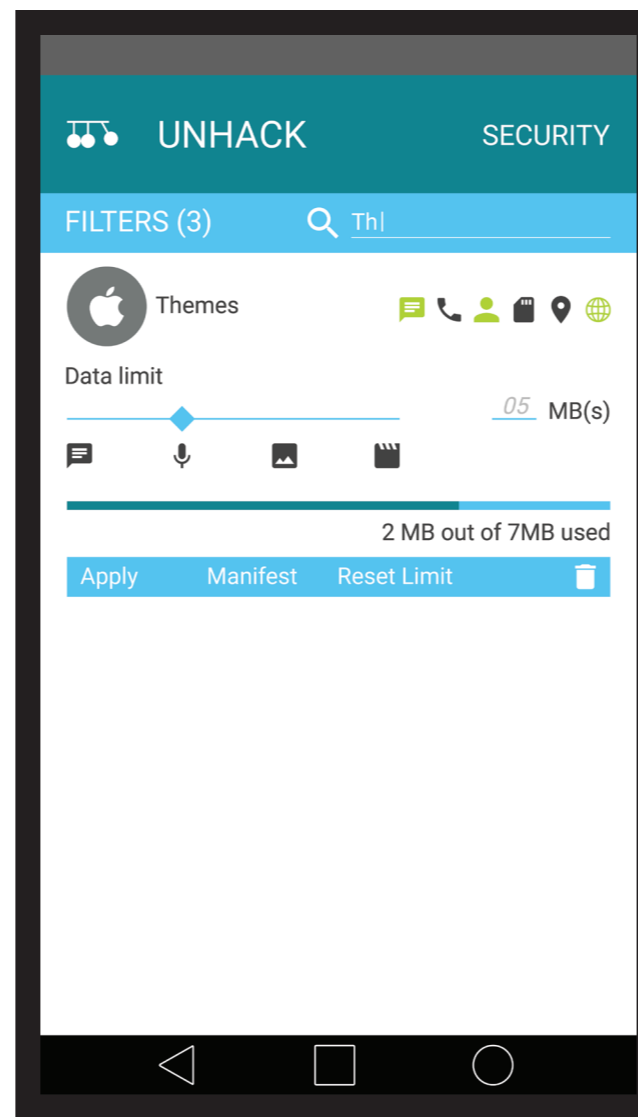
### Application information

#### **Data limit**

Set the data limit for communication through the internet. User can limit in terms of size, which is simplified by using media icons - message, audio, image and video. Corresponding size in MB(s) is displayed, which the user can overried. The amount of data used is also available.

#### **Manifest**

User can access the manifest of the application.



#### **Direct search**

User can search an application using its name.

#### **Permissions**

Which all persmission are granted to the application selected.

# Implementation Details

## Walkthrough

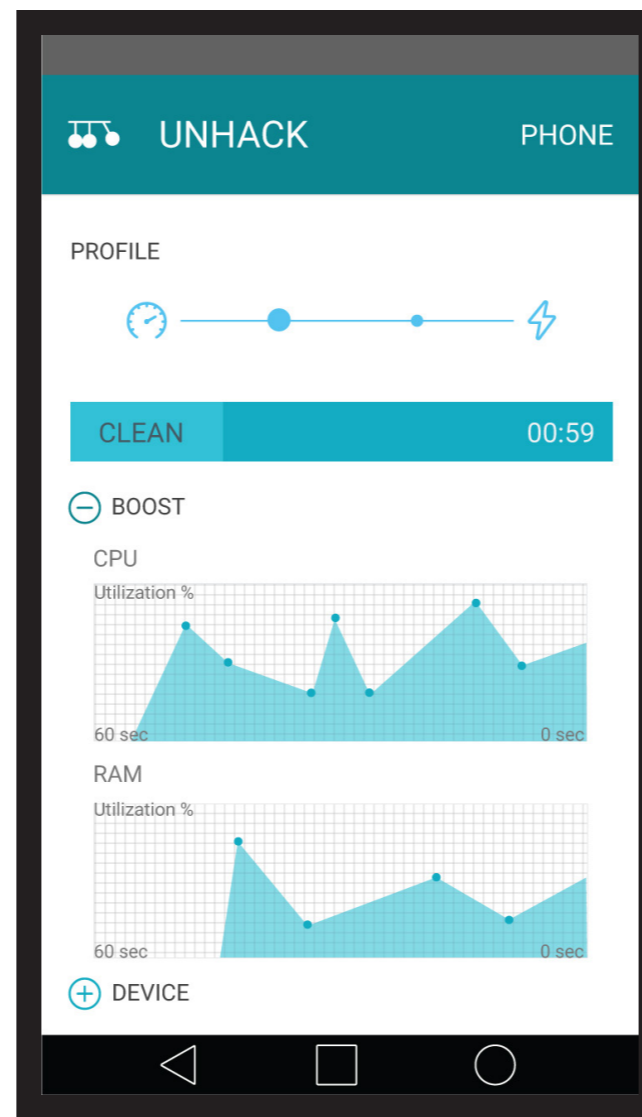
### Phone management

#### Profile

Various profiles allows the user to set the phone to function in battery saver mode or performance mode. User can use the slider for fine adjustment and balancing these modes.

#### Clean traces

Function to clean all traces of internet history from the Android browser and kills unwanted processes to reduce load on CPU and RAM.



#### Performance graph

Visual graphical feedback to the user about the load on CPU and RAM. Utilization percentage is plotted along Y-axis and time in seconds along the X-axis.

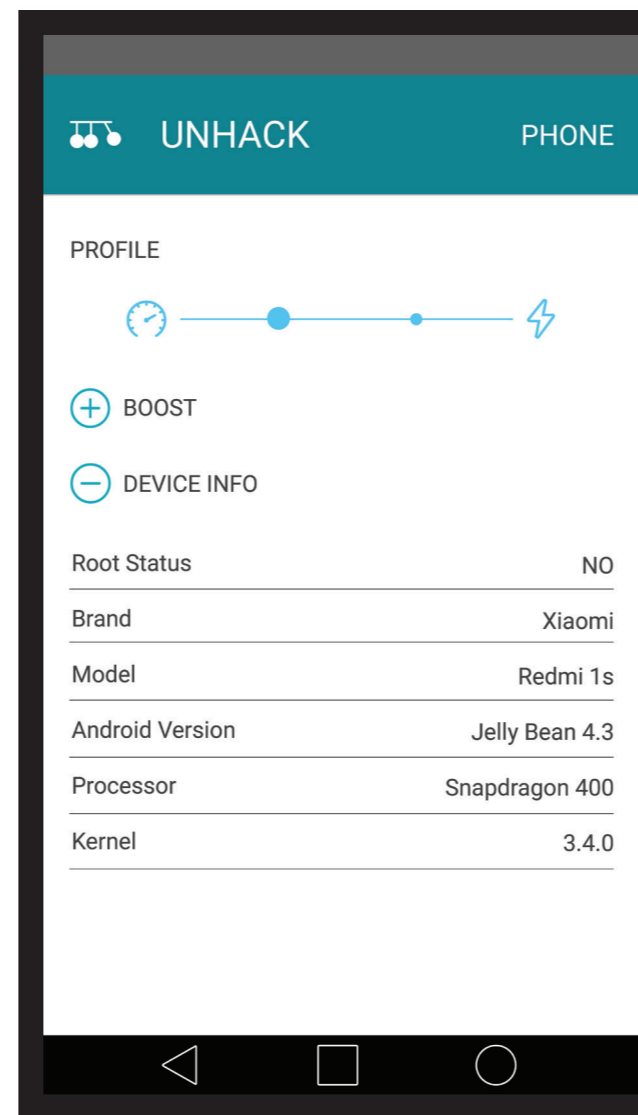
#### Device information

All information regarding software and hardware of the phone is available under this tab.

# Implementation Details

Walkthrough

Phone management



## *Device information*

Information regarding the root status, manufacturer brand, model, Android OS version, processor model and the kernel version is available to the user.



# Implementation Details

## Walkthrough

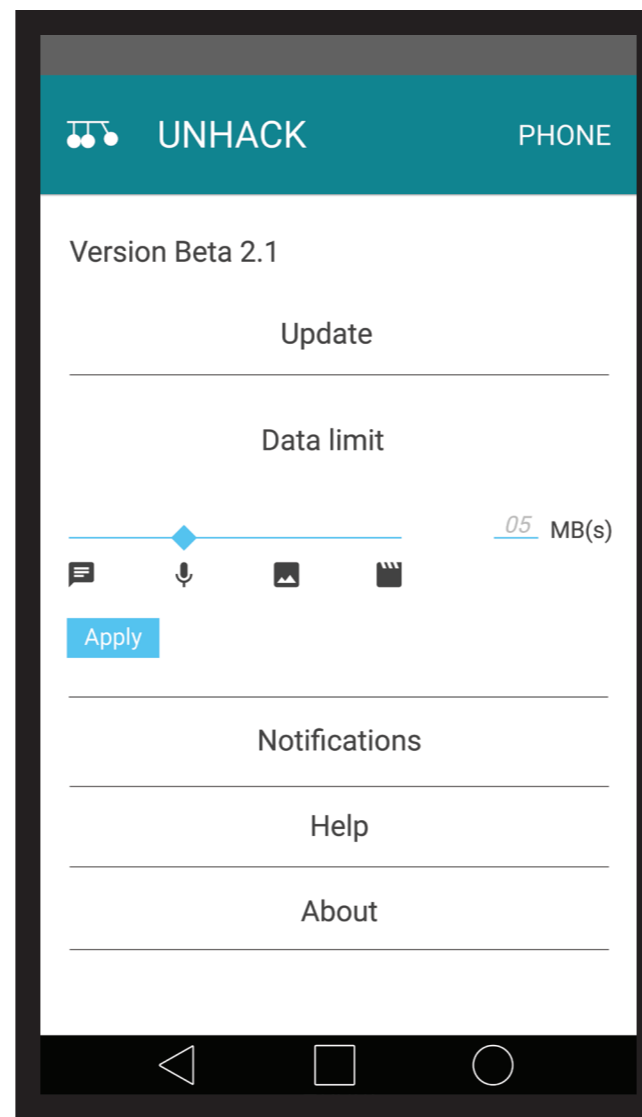
### Settings

#### **Application version**

The version of Unhack application currently installed in the phone. Manual update is also available.

#### **Set global data limit**

Set a global data limit which will affect all the applications installed in the phone than setting one by one.



#### **Notifications**

Turn On or Off notifications from Unhack application regarding data limit and battery charging.

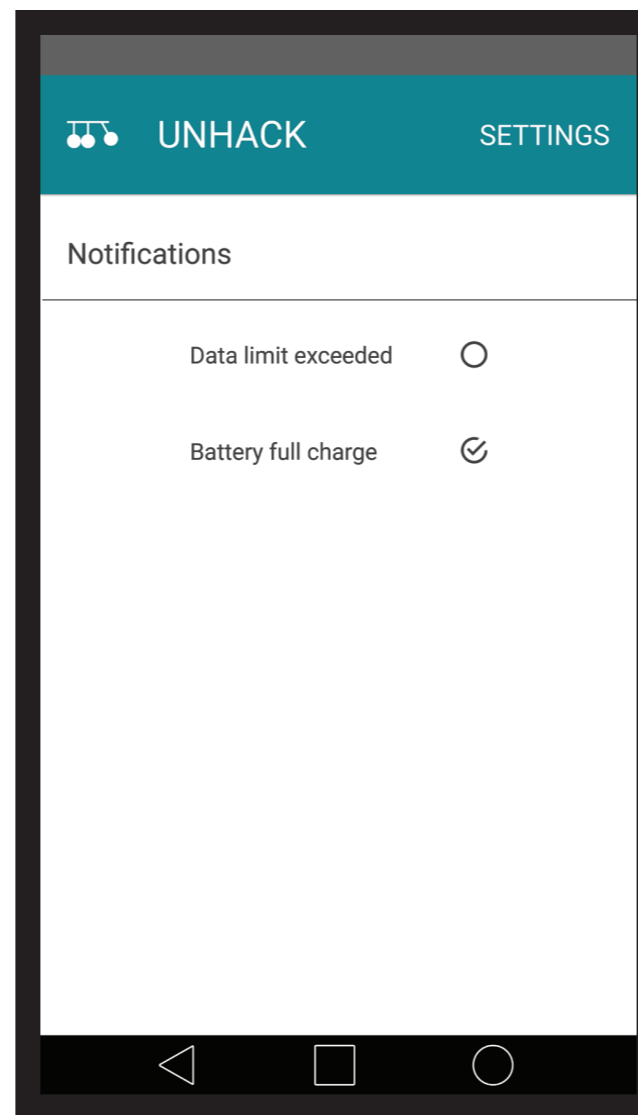
#### **Help and about**

Users can read about the application and can revisit the tutorial whenever required.

# Implementation Details

Walkthrough

Notifications



## ***Notifications***

Turn On or Off push notifications regarding data limit of the applications installed or battery charge status

## For queries

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