<u>Antivirus Mobile Application</u>

Application Name: AntiViro (Antivirus)
Platform: Android and IOS (Cross platform)

Sr no.	Index
1	Business Requirement
2	Technical Requirement
3	Application Features
4	Application Flow

1. Business Requirement:

● Antivirus should be developed for Android and Ios mobile platforms.

● The Antivirus needs to have all the features of a basic antivirus.

● Application need not to be large in size(no more than 20mb).

● Ram Consumption should be less by the application.

● Application should be able to update itself automatically for new threats.

● Anti Virus will have a basic free version for all the users.

● App should also have a premium feature section which will allow them to get access to various threat protection services.

2. Technical Requirement:

Android application development requirement:

- Operating System: Windows,Linux or Mac
- Ram: 12 GB
- Hard Disk capacity: 100 GB
- IDE: Android Studio 3.0 or higher
- External devices : Android devices running on Kitkat or higher

IOS application development requirement:

- Operating System: Mac
- Ram: 12 GB
- Hard Disk capacity: 100 GB
- IDE: Xcode 8.0 or higher
- External devices : Android devices running on Kitkat or higher

3. Application Features

AntiViro is an antivirus mobile application loaded with all the features of a modern antivirus available for both Android and IOS.

Auto Scan Scheduling feature of the app provides the user with facility to scan the device at the time when the devices is being less used. This feature is only available to premium feature.

Daily update scheduling allow the app to get all the latest virus, spyware and malware definitions to keep with all kinds of threat.

App has the feature to clean the cache to free up the memory.

Storing the virus, spyware and malware definitions to the local storage with md5 encryption, it makes the scanning offline as well with efficiency.

Uses minimum resources in the background, AntiViro is capable of running for longer without affecting the device battery.

Support for all Android devices with Android 4.4(kitkat) or higher and Iphone devices with IOS 7 or higher.

4. User Manual

1. Application starts with a welcome message on screen.
2. Next activity downloads all the virus definition into the local storage in md5 file format for later use.
3. After downloading all the components user is being asked to whether he/she wants to upgrade to ad free version.
4. Allowing to upgrade to ad free version will take you to the payment gateway for the payment and your need to add your credentials to submit to your Bank payment API.
5. Once the payment gateway successfully respond for the payment the app marks the user as the premium user by disabling the ads and launching the homescreen.
6. If the user disallow the upgrade to ad free version he/she will be taken to the homescreen.
7. HomeScreen provides the option for following options:
    a) Scan devices
    b) Submit Virus Definition(upload virus definition manually)
    c) Update Virus Definition.

1. Choosing the Scan Devices will start the scan and notify about the threats to the user.
2. If threat is not found the app will send a notification to the user.
3. If the threat is found the app will alert the user with a notification to take action.
4. If internet connectivity is available the report is also send to server for the analysis of new threat.
5. If the internet is not available a job will be scheduled for the later time to send the report.

1. Update Virus Definition option will check the server for the new virus malware definition.

2. This process is by default automatic. But user can also check for manual update as well.
3. The app will connect to the server if the internet is available and download the updates.