


STP for DigitalLayers App

Introduction

This document describes the Software Test Planning - (STP) of DigitalLayers App which enables recording layers and adding them to songs.

Prerequisites
A good WiFi connection
iPhone 12 Pro MAX with iOS 17.0 version and 256GB
Samsung Galaxy S22 Ultra with Android 14 version and 256GB
 Drum roll sound effect
TunnelBear App
https://gs.statcounter.com/vendor-market-share/mobile
https://yesviz.com/viewport/
Genymotion
TestFlight

Part 1

Internationality Test

In this test we are checking if the app appears in the Google Play Store for Android mobiles and if it appears in the App Store for iOS mobiles both in Israel and US, to do so we need to use the TunnelBear app the change the network VPN so we can use the

stores in the US virtually.

Step	Test Type	Action
1	Internationality	Find the DigitalLayers app in the App Store - in Israel
2	Internationality	Find the DigitalLayers app in the Google Play Store - in Israel
3	Internationality	Find the DigitalLayers app in the App Store - in US
4	Internationality	Find the DigitalLayers app in the Google play Store - in US

Installation Test

In this test we are checking the downloading process of the DigitalLayers app, if we can download the app in Israel and in the US, how much time the app takes and how much space the app takes.

Step	Test Type	Action
1	Installation	Download the DigitalLayers app on the iPhone 12 Pro MAX from the App Store with Israeli VPN
2	Installation	Download the DigitalLayers app on the Galaxy S22 Ultra from the Google Play Store with Israeli VPN
3	Installation	Download the DigitalLayers app on the iPhone 12 Pro MAX from the App Store with US VPN
4	Installation	Download the DigitalLayers app on the Galaxy S22 Ultra from the Google Play Store with US VPN

Part 2

Testing the app on iOS mobile with Israeli VPN

In this part we are going to perform the testing process on iOS mobile, for this test we are going to use the iPhone 12 Pro MAX, the testing process will be divided into 4 parts - the

sanity test, suite 1, suite 2 and suite 3.



iPhone 12 Pro MAX



Description

The iPhone 12 Pro Max has a 6.7-inch screen (slightly larger than the 6.5" on the iPhone 11 Pro Max), and its base price is set at \$1,100. It arrives in the same choice of colors: silver, graphite, gold and the new blue option, and it is also offered in the same storage capacities: 128GB, 256GB, and 512GB. In this part **the iPhone that we are using is with 256GB capacity, the color blue and with the version iOS 17.0.**

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox

3	Enter “12345678” in the “Password” textbox
4	Click on the “Login” button
5	Download the song “Lazuz” on 5G mobile data
6	Click on the “Open” button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the “+” button
9	Move the “rec” button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the “rec” button to the left
12	Click on the “Stop” button to the stop the song
13	Click the “Play” button

Suite 1: The Login Web Page

In this suite we are going to perform all the needed tests on the login web page which opens on the Safari browser in the iOS mobile.

Step	Test Type	Action
1	Error Handling	Login without filling the textboxes
2	Error Handling	Login without filling the “Email” textbox
3	Error Handling	Login without filling the “Password” textbox
4	Error Handling	Login with the wrong password “1”
5	Error Handling	Login with the wrong password “123456789”
6	Error Handling	Login with the domain “#@gmail.com”
7	Error Handling	Login with the domain “1@gmail.com”

8	Error Handling	Login with the char “s” in the “Email” textbox
9	Error Handling	Login with the same account from the Galaxy S22 Ultra mobile
Suite 2: The Home Screen		
In this suite we are going to perform all the needed tests on the home screen in the iOS mobile.		
Step	Test Type	Action
1	Functionality	Search a song from the local location
2	Functionality	Search a song from a global location
3	Connectivity	Download a song on 2G mobile data
4	Connectivity	Download a song on 3G mobile data
5	Connectivity	Download a song on 4G mobile data
6	Connectivity	Download a song on WiFi
7	Connectivity	Download 2 songs on WiFi
8	Connectivity	Download 3 songs on WiFi
9	Connectivity	Download 4 songs on WiFi
10	Boundary Values	Download 5 songs on WiFi
11	Communication Interruption	Change the network connection from WiFi to mobile data while downloading a song
12	Communication Interruption	Change the network connection from mobile data to WiFi while downloading a song
13	Communication Interruption	Set the mobile on Airplane mode while downloading a song

14	Software Interruption	Call the mobile while downloading a song
15	Software Interruption	Send an SMS message to the mobile while downloading a song
16	Software Interruption	Send an app message to the mobile while downloading a song
17	Software Interruption	Cancel a call while downloading a song
18	Software Interruption	Cancel a call with SMS message while downloading a song
19	Software Interruption	Answer a call while downloading a song
20	Software Interruption	Set the alarm to start while downloading a song
21	Software Interruption	Lock the mobile screen while downloading a song
22	Software Interruption	Set the mobile to download a song when the battery low system notification pops up
23	Software Interruption	Send an AirDrop while downloading a song
24	Hardware Interruptions	Connect the mobile to the charger while downloading a song
25	Hardware Interruptions	Connect the mobile to Bluetooth device while downloading a song
26	Hardware Interruptions	Remove the sim card while downloading a song on mobile data

27	Hardware Interruptions	Remove the sim card while downloading a song on WiFi connection
28	Hardware Interruptions	Restart the mobile while downloading a song
29	Error Handling	Search the song “ “
30	Error Handling	Search the song “ش”
31	Error Handling	Search the song “@”
32	Error Handling	Download 2 songs on mobile data
33	Error Handling	Download 6 songs on WiFi connection

Suite 3: The Now Playing Screen

In this suite we are going to perform all the needed tests on the now playing screen in the iOS mobile.

Step	Test Type	Action
1	Functionality	Pause a song
2	Functionality	Click the “Off” button to cancel a layer
3	Functionality	Click the “On” button to add a layer
4	Functionality	Click the “Forward” button
5	Functionality	Click the “Backward” button
6	Functionality	Click on the roller
7	Functionality	Add 2 audios
8	Functionality	Add 3 audios
9	Functionality	Add 4 audios

10	Connectivity	Play a song with no WiFi connection or mobile data
11	Boundary Values	Add 5 audios
12	Software Interruption	Call the mobile while playing a song
13	Software Interruption	Send an SMS message to the mobile while playing a song
14	Software Interruption	Cancel a call while playing a song
15	Software Interruption	Cancel a call with a message while playing a song
16	Software Interruption	Answer a call while playing a song
17	Software Interruption	Send an app notification while playing a song
18	Software Interruption	Lock the mobile screen while playing a song
19	Software Interruption	Set the mobile to play a song on a low battery mode to get the low battery system notification
20	Software Interruption	Set an alarm while playing a song
21	Software Interruption	Send an AirDrop while playing a song
22	Hardware Interruption	Connect the charger while playing a song
23	Hardware Interruption	Connect to a Bluetooth device while playing a song

24	Hardware Interruption	Remove the sim card while playing a song
25	Hardware Interruption	Restart the mobile while playing a song
26	Hardware Interruption	Play a song on low battery mode
27	Hardware Interruption	Mute the mobile while playing a song
28	Error Handling	Add 6 audios

Part 3

Testing the app on Android mobile with Israeli VPN

In this part we are going to perform the testing process on Android mobile, for this test we are going to use the Samsung Galaxy S22 Ultra, the testing process will be divided into 4 parts - the sanity test, suite 1, suite 2 and suite 3.



Samsung Galaxy S22 Ultra



Description

The Samsung Galaxy S22 Ultra is the headliner of the S22 series. It's the first S series phone to include Samsung's S Pen. Specifications are top-notch including 6.8-inch Dynamic AMOLED display with 120Hz refresh rate, Snapdragon 8 Gen 1 processor, 5000mAh battery, up to 12 gigs of RAM, and 1TB of storage. In the camera department, a quad-camera setup is presented with two telephoto sensors.

In this part **the Galaxy that we are using is with 256GB capacity, 8 gigs of RAM, the color black and with the version Android 14.0.**

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left

12	Click on the “Stop” button to the stop the song	
13	Click the “Play” button	
Suite 1: The Login Web Page		
In this suite we are going to perform all the needed tests on the login web page which opens on the Samsung Internet browser in the Android mobile.		
Step	Test Type	Action
1	Error Handling	Login without filling the textboxes
2	Error Handling	Login without filling the “Email” textbox
3	Error Handling	Login without feline the “Password” textbox
4	Error Handling	Login with the wrong password “1”
5	Error Handling	Login with the wrong password “123456789”
6	Error Handling	Login with the domain “#@gmail.com”
7	Error Handling	Login with the domain “1@gmail.com”
8	Error Handling	Login with the char “s” in the “Email” textbox
9	Error Handling	Login with the same account from the Galaxy S22 Ultra mobile
Suite 2: The Home Screen		
In this suite we are going to perform all the needed tests on the home screen in the iAndroid mobile.		
Step	Test Type	Action
1	Functionality	Search a song from the local location
2	Functionality	Search a song from a global location

3	Connectivity	Download a song on 2G mobile data
4	Connectivity	Download a song on 3G mobile data
5	Connectivity	Download a song on 4G mobile data
6	Connectivity	Download a song on WiFi
7	Connectivity	Download 2 songs on WiFi
8	Connectivity	Download 3 songs on WiFi
9	Connectivity	Download 4 songs on WiFi
10	Boundary Values	Download 5 songs on WiFi
11	Communication Interruption	Change the network connection from WiFi to mobile data while downloading a song
12	Communication Interruption	Change the network connection from mobile data to WiFi while downloading a song
13	Communication Interruption	Set the mobile on Airplane mode while downloading a song
14	Software Interruption	Call the mobile while downloading a song
15	Software Interruption	Send an SMS message to the mobile while downloading a song
16	Software Interruption	Send an app message to the mobile while downloading a song
17	Software Interruption	Cancel a call while downloading a song
18	Software Interruption	Cancel a call with SMS message while downloading a song

19	Software Interruption	Answer a call while downloading a song
20	Software Interruption	Set the alarm to start while downloading a song
21	Software Interruption	Lock the mobile screen while downloading a song
22	Software Interruption	Set the mobile to download a song when the battery low system notification pops up
23	Hardware Interruption	Remove the memory card while downloading a song
24	Hardware Interruptions	Connect the mobile to the charger while downloading a song
25	Hardware Interruptions	Connect the mobile to Bluetooth device while downloading a song
26	Hardware Interruptions	Remove the sim card while downloading a song on mobile data
27	Hardware Interruptions	Remove the sim card while downloading a song on WiFi connection
28	Hardware Interruptions	Restart the mobile while downloading a song
29	Error Handling	Search the song “ “
30	Error Handling	Search the song “ش”
31	Error Handling	Search the song “@”
32	Error Handling	Download 2 songs on mobile data
33	Error Handling	Download 6 songs on WiFi connection

Suite 3: The Now Playing Screen

In this suite we are going to perform all the needed tests on the now playing screen in the Android mobile.

Step	Test Type	Action
1	Functionality	Pause a song
2	Functionality	Click the “Off” button to cancel a layer
3	Functionality	Click the “On” button to add a layer
4	Functionality	Click the “Forward” button
5	Functionality	Click the “Backward” button
6	Functionality	Click on the roller
7	Functionality	Add 2 audios
8	Functionality	Add 3 audios
9	Functionality	Add 4 audios
10	Connectivity	Play a song with no WiFi connection or mobile data
11	Boundary Values	Add 5 audios
12	Software Interruption	Call the mobile while playing a song
13	Software Interruption	Send an SMS message to the mobile while playing a song
14	Software Interruption	Cancel a call while playing a song
15	Software Interruption	Cancel a call with a message while playing a song

16	Software Interruption	Answer a call while playing a song
17	Software Interruption	Send an app notification while playing a song
18	Software Interruption	Lock the mobile screen while playing a song
19	Software Interruption	Set the mobile to play a song on a low battery mode to get the low battery system notification
20	Software Interruption	Set an alarm while playing a song
21	Hardware Interruption	Connect the charger while playing a song
22	Hardware Interruption	Connect to a Bluetooth device while playing a song
23	Hardware Interruption	Remove the sim card while playing a song
24	Hardware Interruption	Restart the mobile while playing a song
25	Hardware Interruption	Play a song on low battery mode
26	Hardware Interruption	Mute the mobile while playing a song
27	Hardware Interruption	Remove the memory card while playing a song
28	Error Handling	Add 6 audios

Part 4

Testing the app on iOS mobile with US VPN

In this part we are going to perform the testing process on iOS mobile, for this test we are going to use the iPhone 12 Pro MAX, the testing process will be divided into 4 parts - the sanity test, suite 1, suite 2 and suite 3.

To perform this process we need to change the VPN with the TunnelBear app to the US virtual network.



iPhone 12 Pro MAX



Description

The iPhone 12 Pro Max has a 6.7-inch screen (slightly larger than the 6.5" on the iPhone 11 Pro Max), and its base price is set at \$1,100. It arrives in the same choice of colors: silver, graphite, gold and the new blue option, and it is also offered in the same storage capacities: 128GB, 256GB, and 512GB.

In this part **the iPhone that we are using is with 256GB capacity, the color blue and with the version iOS 17.0.**

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to stop the song
13	Click the "Play" button

Suite 1: The Login Web Page

In this suite we are going to perform all the needed tests on the login web page which opens on the Safari browser in the iOS mobile.

Step	Test Type	Action
1	Error Handling	Login without filling the textboxes
2	Error Handling	Login without filling the "Email" textbox
3	Error Handling	Login without filling the "Password" textbox
4	Error Handling	Login with the wrong password "1"

5	Error Handling	Login with the wrong password "123456789"
6	Error Handling	Login with the domain "#@gmail.com"
7	Error Handling	Login with the domain "1@gmail.com"
8	Error Handling	Login with the char "s" in the "Email" textbox
9	Error Handling	Login with the same account from the Galaxy S22 Ultra mobile

Suite 2: The Home Screen

In this suite we are going to perform all the needed tests on the home screen in the iOS mobile.

Step	Test Type	Action
1	Functionality	Search a song from the local location
2	Functionality	Search a song from a global location
3	Connectivity	Download a song on 2G mobile data
4	Connectivity	Download a song on 3G mobile data
5	Connectivity	Download a song on 4G mobile data
6	Connectivity	Download a song on WiFi
7	Connectivity	Download 2 songs on WiFi
8	Connectivity	Download 3 songs on WiFi
9	Connectivity	Download 4 songs on WiFi
10	Boundary Values	Download 5 songs on WiFi
11	Communication Interruption	Change the network connection from WiFi to mobile data while downloading a song

12	Communication Interruption	Change the network connection from mobile data to WiFi while downloading a song
13	Communication Interruption	Set the mobile on Airplane mode while downloading a song
14	Software Interruption	Call the mobile while downloading a song
15	Software Interruption	Send an SMS message to the mobile while downloading a song
16	Software Interruption	Send an app message to the mobile while downloading a song
17	Software Interruption	Cancel a call while downloading a song
18	Software Interruption	Cancel a call with SMS message while downloading a song
19	Software Interruption	Answer a call while downloading a song
20	Software Interruption	Set the alarm to start while downloading a song
21	Software Interruption	Lock the mobile screen while downloading a song
22	Software Interruption	Set the mobile to download a song when the battery low system notification pops up
23	Software Interruption	Send an AirDrop while downloading a song
24	Hardware Interruptions	Connect the mobile to the charger while downloading a song

25	Hardware Interruptions	Connect the mobile to Bluetooth device while downloading a song
26	Hardware Interruptions	Remove the sim card while downloading a song on mobile data
27	Hardware Interruptions	Remove the sim card while downloading a song on WiFi connection
28	Hardware Interruptions	Restart the mobile while downloading a song
29	Error Handling	Search the song “ “
30	Error Handling	Search the song “ش”
31	Error Handling	Search the song “@”
32	Error Handling	Download 2 songs on mobile data
33	Error Handling	Download 6 songs on WiFi connection

Suite 3: The Now Playing Screen

In this suite we are going to perform all the needed tests on the now playing screen in the iOS mobile.

Step	Test Type	Action
1	Functionality	Pause a song
2	Functionality	Click the “Off” button to cancel a layer
3	Functionality	Click the “On” button to add a layer
4	Functionality	Click the “Forward” button
5	Functionality	Click the “Backward” button
6	Functionality	Click on the roller

7	Functionality	Add 2 audios
8	Functionality	Add 3 audios
9	Functionality	Add 4 audios
10	Connectivity	Play a song with no WiFi connection or mobile data
11	Boundary Values	Add 5 audios
12	Software Interruption	Call the mobile while playing a song
13	Software Interruption	Send an SMS message to the mobile while playing a song
14	Software Interruption	Cancel a call while playing a song
15	Software Interruption	Cancel a call with a message while playing a song
16	Software Interruption	Answer a call while playing a song
17	Software Interruption	Send an app notification while playing a song
18	Software Interruption	Lock the mobile screen while playing a song
19	Software Interruption	Set the mobile to play a song on a low battery mode to get the low battery system notification
20	Software Interruption	Set an alarm while playing a song
21	Software Interruption	Send an AirDrop while playing a song

22	Hardware Interruption	Connect the charger while playing a song
23	Hardware Interruption	Connect to a Bluetooth device while playing a song
24	Hardware Interruption	Remove the sim card while playing a song
25	Hardware Interruption	Restart the mobile while playing a song
26	Hardware Interruption	Play a song on low battery mode
27	Hardware Interruption	Mute the mobile while playing a song
28	Error Handling	Add 6 audios

Part 5

Testing the app on Android mobile with US VPN

In this part we are going to perform the testing process on Android mobile, for this test we are going to use the Samsung Galaxy S22 Ultra, the testing process will be divided into 4 parts - the sanity test, suite 1, suite 2 and suite 3.
To perform this process we need to change the VPN with the TunnelBear app to the US virtual network.



Samsung Galaxy S22 Ultra

Description



The Samsung Galaxy S22 Ultra is the headliner of the S22 series. It's the first S series phone to include Samsung's S Pen. Specifications are top-notch including 6.8-inch Dynamic AMOLED display with 120Hz refresh rate, Snapdragon 8 Gen 1 processor, 5000mAh battery, up to 12 gigs of RAM, and 1TB of storage. In the camera department, a quad-camera setup is presented with two telephoto sensors.

In this part **the Galaxy that we are using is with 256GB capacity, 8 gigs of RAM, the color black and with the version Android 14.0.**

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox

3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button

Suite 1: The Login Web Page

In this suite we are going to perform all the needed tests on the login web page which opens on the Samsung Internet browser in the Android mobile.

Step	Test Type	Action
1	Error Handling	Login without filling the textboxes
2	Error Handling	Login without filling the "Email" textbox
3	Error Handling	Login without filling the "Password" textbox
4	Error Handling	Login with the wrong password "1"
5	Error Handling	Login with the wrong password "123456789"
6	Error Handling	Login with the domain "#@gmail.com"
7	Error Handling	Login with the domain "1@gmail.com"

8	Error Handling	Login with the char “s” in the “Email” textbox
9	Error Handling	Login with the same account from the Galaxy S22 Ultra mobile
Suite 2: The Home Screen		
In this suite we are going to perform all the needed tests on the home screen in the iAndroid mobile.		
Step	Test Type	Action
1	Functionality	Search a song from the local location
2	Functionality	Search a song from a global location
3	Connectivity	Download a song on 2G mobile data
4	Connectivity	Download a song on 3G mobile data
5	Connectivity	Download a song on 4G mobile data
6	Connectivity	Download a song on WiFi
7	Connectivity	Download 2 songs on WiFi
8	Connectivity	Download 3 songs on WiFi
9	Connectivity	Download 4 songs on WiFi
10	Boundary Values	Download 5 songs on WiFi
11	Communication Interruption	Change the network connection from WiFi to mobile data while downloading a song
12	Communication Interruption	Change the network connection from mobile data to WiFi while downloading a song
13	Communication Interruption	Set the mobile on Airplane mode while downloading a song

14	Software Interruption	Call the mobile while downloading a song
15	Software Interruption	Send an SMS message to the mobile while downloading a song
16	Software Interruption	Send an app message to the mobile while downloading a song
17	Software Interruption	Cancel a call while downloading a song
18	Software Interruption	Cancel a call with SMS message while downloading a song
19	Software Interruption	Answer a call while downloading a song
20	Software Interruption	Set the alarm to start while downloading a song
21	Software Interruption	Lock the mobile screen while downloading a song
22	Software Interruption	Set the mobile to download a song when the battery low system notification pops up
23	Hardware Interruption	Remove the memory card while downloading a song
24	Hardware Interruptions	Connect the mobile to the charger while downloading a song
25	Hardware Interruptions	Connect the mobile to Bluetooth device while downloading a song
26	Hardware Interruptions	Remove the sim card while downloading a song on mobile data

27	Hardware Interruptions	Remove the sim card while downloading a song on WiFi connection
28	Hardware Interruptions	Restart the mobile while downloading a song
29	Error Handling	Search the song “ “
30	Error Handling	Search the song “ش”
31	Error Handling	Search the song “@”
32	Error Handling	Download 2 songs on mobile data
33	Error Handling	Download 6 songs on WiFi connection

Suite 3: The Now Playing Screen

In this suite we are going to perform all the needed tests on the now playing screen in the Android mobile.

Step	Test Type	Action
1	Functionality	Pause a song
2	Functionality	Click the “Off” button to cancel a layer
3	Functionality	Click the “On” button to add a layer
4	Functionality	Click the “Forward” button
5	Functionality	Click the “Backward” button
6	Functionality	Click on the roller
7	Functionality	Add 2 audios
8	Functionality	Add 3 audios
9	Functionality	Add 4 audios

10	Connectivity	Play a song with no WiFi connection or mobile data
11	Boundary Values	Add 5 audios
12	Software Interruption	Call the mobile while playing a song
13	Software Interruption	Send an SMS message to the mobile while playing a song
14	Software Interruption	Cancel a call while playing a song
15	Software Interruption	Cancel a call with a message while playing a song
16	Software Interruption	Answer a call while playing a song
17	Software Interruption	Send an app notification while playing a song
18	Software Interruption	Lock the mobile screen while playing a song
19	Software Interruption	Set the mobile to play a song on a low battery mode to get the low battery system notification
20	Software Interruption	Set an alarm while playing a song
21	Hardware Interruption	Connect the charger while playing a song
22	Hardware Interruption	Connect to a Bluetooth device while playing a song
23	Hardware Interruption	Remove the sim card while playing a song

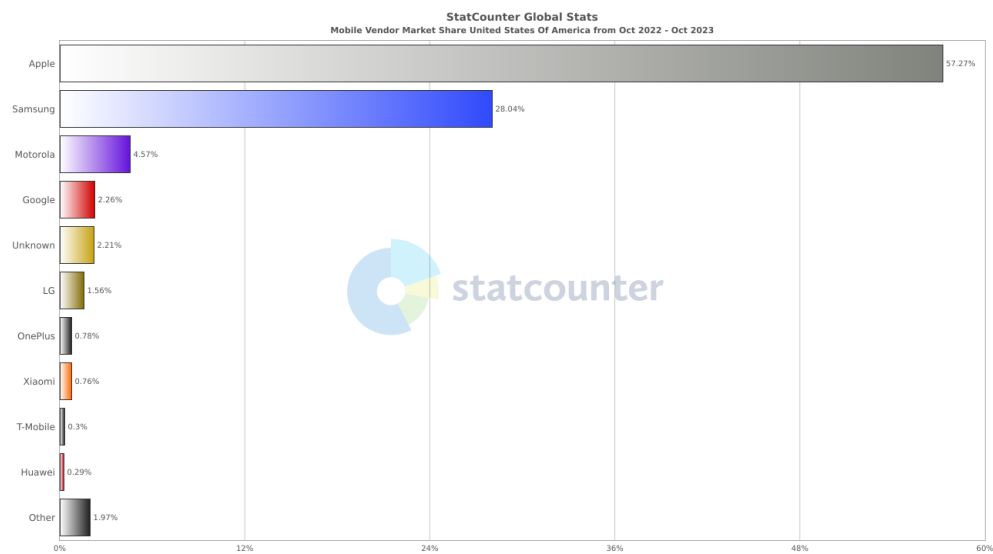
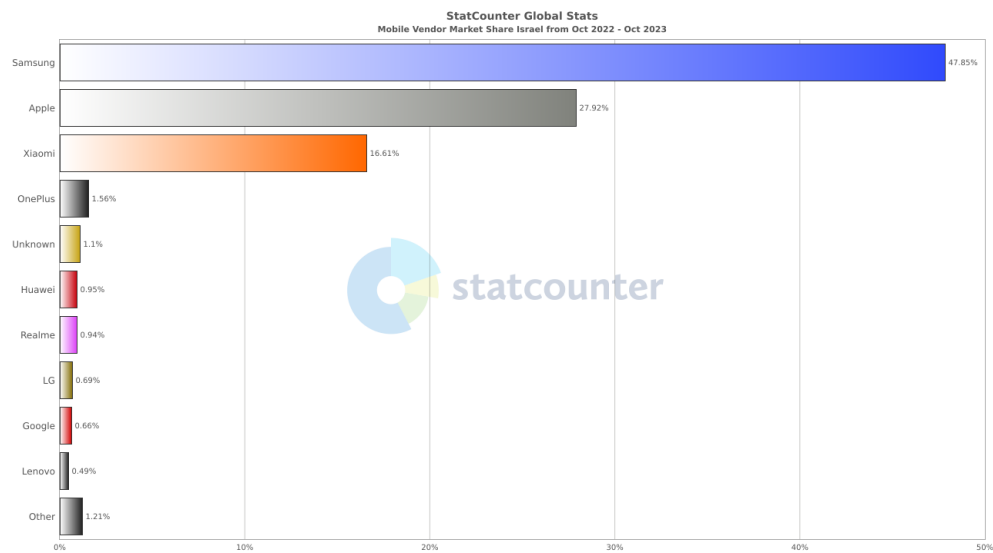
24	Hardware Interruption	Restart the mobile while playing a song
25	Hardware Interruption	Play a song on low battery mode
26	Hardware Interruption	Mute the mobile while playing a song
27	Hardware Interruption	Remove the memory card while playing a song
28	Error Handling	Add 6 audios

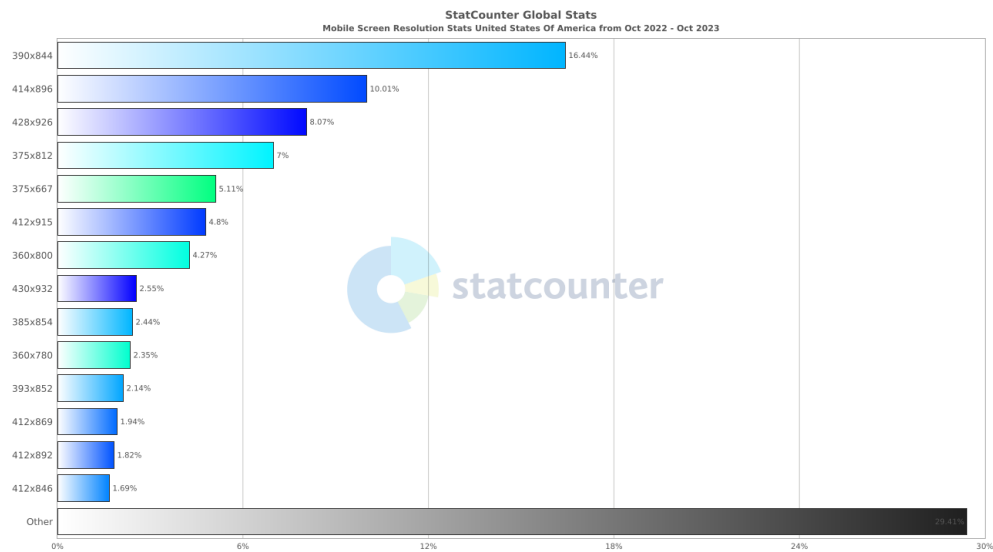
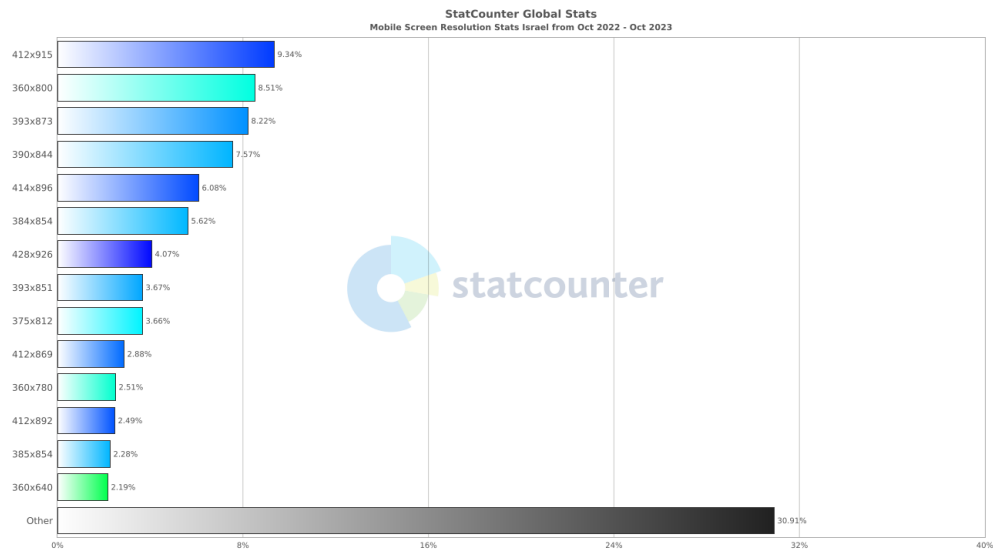
Part 6

Compatibility Test

In this test we searched the most popular mobile devices types in use in both Israel and US and also we searched the most popular screen resolutions in use in both Israel and US.

To do so we used the Statcounter website which displays a chart of the most popular devices and resolutions, we searched the most popular devices and resolutions in the last year and to pick the phones we used the YesViz website which helped us to find the mobile types by the resolution.





Usability Test

Usability testing is one of the UX research techniques that allows us to verify how users react to the DigitalLayers app, whether they can use it, what problems they may encounter, and what they may think about a given solution.

To perform this test we need to use the Genymotion which is an online emulator designed to help businesses test Android applications, and we need to use TestFlight which is an online service for over-the-air installation and testing apps on iOS mobiles. We need to perform the sanity test on the device that we selected which fits the charts from the compatibility test.

Part 7.1 - Usability test on Samsung Galaxy Note 20 in Israel's VPN



Samsung Galaxy Note 20



Description

The Samsung Galaxy Note 20 specs include Snapdragon 865 chipset and an Exynos one to match in all non-US regions accompanied by 8GB of RAM and up to 256GB storage, and 4300mAh battery. At the back is situated the triple-camera setup from the Galaxy S20. A 6.7-inch sAMOLED display with a

60Hz refresh rate is at the front. S Pen and 5G come off as standard. The Galaxy Note 20 is available for a starting price of \$1000.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button

Part 7.2 - Usability test on Samsung Galaxy S20 Ultra in Israel's VPN



Samsung Galaxy S20 Ultra



Description

The Samsung Galaxy S20 Ultra is the biggest handset of the Galaxy S20 trio. It has a 6.9-inch display that supports 120Hz but only at 1080p resolution. At the back is situated a huge camera module, housing a grand total of four cameras. The main sensor is 108MP while the periscope sensor can go up to 100x zoom. The phone is powered by Snapdragon 865/Exynos 990 chipset with 12/16GB RAM and up to 512GB storage. Additionally, you get 5000mAh battery and Android 10 out of the box. The Galaxy S20 Ultra supports 5G and costs \$1400 (for the 12GB/128GB variant).

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app

2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button
Part 7.3 - Usability test on Xiaomi Mi 11T in Israel's VPN	



Xiaomi Mi 11T

Description

Xiaomi Mi 11 is a high-end device with its main features being a triple camera with a 108MP main one, 13MP ultra wide angle secondary camera and a 5MP sensor optimized to capture both macro and tele shots. The phone has a 6.81" AMOLED quad-curve DotDisplay capable of working at 120Hz. All this hardware is powered by a Qualcomm Snapdragon 888 chipset.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox

4	Click on the “Login” button
5	Download the song “Lazuz” on 5G mobile data
6	Click on the “Open” button
7	Open the 📺 Drum roll sound effect and move the video to the 0.02 minute
8	Click on the “+” button
9	Move the “rec” button to the right
10	Click the play button in the 📺 Drum roll sound effect video
11	After 0.10 minutes of recording move back the “rec” button to the left
12	Click on the “Stop” button to the stop the song
13	Click the “Play” button

Part 7.4 - Usability test on Xiaomi Redmi Note 9 Pro in Israel's VPN





Xiaomi Redmi Note 9 Pro

Description

The Xiaomi Redmi Note 9 Pro specifications include a 6.67-inch FHD display, Snapdragon 720G processor, coupled with 6GB of RAM and up to 128GB of storage, and 5,020mAh battery. There is a quad-camera setup with a 64 MP primary sensor on the back, while a 16MP selfie camera housed within a hole punch is at the front. The Redmi Note 9 Pro runs Android 10 out of the box.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button

Part 7.5 - Usability test on iPhone 13 in Israel's VPN



iPhone 13



Description

The iPhone 13 is the successor to Apple's best selling iPhone 12, and it improves upon a successful formula: \$800 price for a flagship processor and a 6.1-inch screen size that is not too large, nor too small. The iPhone 13 brings a new Apple A15 Bionic chip and improvements to the dual camera setup consisting of a wide and ultra-wide camera.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app

2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button
Part 7.6 - Usability test on iPhone 12 Pro in US VPN	





iPhone 12 Pro

Description

The iPhone 12 Pro features a 6.1-inch display (a bit bigger than the 5.8" on the iPhone 11 Pro) and starts at a price of \$1,000, and arrives in Apple's three signature colors: silver, graphite, and gold, as well as a fourth, brand new color option, a blue model. Storage for the base model is 128GB, and you can also buy a 256GB and a 512GB versions.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter “ dlayers@gmail.com ” in the “Email” textbox
3	Enter “12345678” in the “Password” textbox
4	Click on the “Login” button
5	Download the song “Lazuz” on 5G mobile data
6	Click on the “Open” button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the “+” button
9	Move the “rec” button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the “rec” button to the left
12	Click on the “Stop” button to the stop the song
13	Click the “Play” button
Part 7.7 - Usability test on iPhone 14 Pro MAX in US VPN	



iPhone 14 Pro MAX



Description

The iPhone 14 Pro Max comes with a 6.7-inch OLED display with 120Hz refresh rate and Apple's improved Bionic A16 processor. On the back there is a Triple camera setup with 48MP main camera. Prices start from 1099\$.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
------	--------

1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button
Part 7.8 - Usability test on iPhone 8 Plus in US VPN	



iPhone 8 Plus



Description

Just like the iPhone 8, the Apple iPhone 8 Plus sticks to a familiar form factor, with water resistance and built-in stereo speakers, but replaces the metal housing with a glass back to enable wireless charging. It brings along a new, faster Apple A11 Bionic system chip and a display supporting Apple's True Tone display technology. The dual camera at the back now shoots 4K video at up to 60fps and takes portraits with studio lighting effects. The addition of optical image stabilization to the 2X zoom Telephoto camera should translate to clearer images and portraits. iOS 11 runs on it out of the box, introducing augmented reality applications, a redesigned App Store, a new Control Center layout, and a number of UI refinements.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a

layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter “ dlayers@gmail.com ” in the “Email” textbox
3	Enter “12345678” in the “Password” textbox
4	Click on the “Login” button
5	Download the song “Lazuz” on 5G mobile data
6	Click on the “Open” button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the “+” button
9	Move the “rec” button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the “rec” button to the left
12	Click on the “Stop” button to the stop the song
13	Click the “Play” button
Part 7.9 - Usability test on Samsung Galaxy Z Fold 5 in US VPN	





Samsung Galaxy Z Fold 5

Description

The Samsung Galaxy Z Fold 5 comes with 7.6-inch Dynamic AMOLED display and with 6.2-inch cover screen. Specs also include Qualcomm Snapdragon 8 Gen 2 processor, 4400mAh battery and Triple camera setup on the back.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app
2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button
Part 7.10 - Usability test on Google Pixel 8a in US VPN	



Google Pixel 8a



Description

The Google Pixel 8a is rumored to come with a 6.1-inch OLED display and Google Tensor G3 processor. Specs are also rumored to include 8GB RAM and Dual camera setup on the back.

Sanity Test

In this test we are checking the main purpose of the DigitalLayer app which is adding a layer to a song, we are performing this main test to check the usability on this mobile type.

Step	Action
1	Open the DigitalLayers app

2	Enter " dlayers@gmail.com " in the "Email" textbox
3	Enter "12345678" in the "Password" textbox
4	Click on the "Login" button
5	Download the song "Lazuz" on 5G mobile data
6	Click on the "Open" button
7	Open the  Drum roll sound effect and move the video to the 0.02 minute
8	Click on the "+" button
9	Move the "rec" button to the right
10	Click the play button in the  Drum roll sound effect video
11	After 0.10 minutes of recording move back the "rec" button to the left
12	Click on the "Stop" button to the stop the song
13	Click the "Play" button