

---

*Date 14/4/2023*

*CSM3103*

*Front-End Development*

*DR RABIEI B MAMAT MAMAT*

*OMAR ISMAIL ABDJALEEL ALOMORY*

*LAB 2*

---

## Task 1

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1413]
(c) Microsoft Corporation. All rights reserved.

C:\Users\komar>npm -v
9.5.0

C:\Users\komar>npm install -g cordova
npm notice
npm notice New minor version of npm available! 9.5.0 -> 9.6.4
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.4
npm notice Run npm install -g npm@9.6.4 to update!
npm notice
npm ERR! code E404
npm ERR! 404 Not Found - GET https://registry.npmjs.org/cordova - Not found
npm ERR! 404
npm ERR! 404 'cordova@*' is not in this registry.
npm ERR! 404
npm ERR! 404 Note that you can also install from a
npm ERR! 404 tarball, folder, http url, or git url.

npm ERR! A complete log of this run can be found in:
npm ERR! C:\Users\komar\AppData\Local\npm-cache\_logs\2023-04-12T02_30_49_692Z-debug-0.log

C:\Users\komar>Run npm install -g npm@9.6.4
'Run' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\komar>npm install -g npm@9.6.4

added 1 package in 3s
```

```
Command Prompt
npm ERR! A complete log of this run can be found in: C:\Users\komar\AppData\Local\npm-cache\_logs\2023-04-12T02_30_49_692Z-debug-0.log

C:\Users\komar>npm install -g cordova
npm ERR! code E404
npm ERR! 404 Not Found - GET https://registry.npmjs.org/cordova - Not found
npm ERR! 404
npm ERR! 404 'cordova@*' is not in this registry.
npm ERR! 404
npm ERR! 404 Note that you can also install from a
npm ERR! 404 tarball, folder, http url, or git url.

npm ERR! A complete log of this run can be found in: C:\Users\komar\AppData\Local\npm-cache\_logs\2023-04-12T02_30_49_692Z-debug-0.log

C:\Users\komar>npm install -g cordova
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain
circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated stringify-package@1.0.1: This module is not used anymore, and has been replaced by @npmcli/package-json
son

added 489 packages in 15s

52 packages are looking for funding
  run `npm fund` for details

C:\Users\komar>
```

## Task 2

A,b

```
C:\WINDOWS\system32\cmd. X + v
Example: "COLOR fc" produces light red on bright white
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution>color 6
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution>mkdir cordovaProject
A subdirectory or file cordovaProject already exists.
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 9256-C63D

Directory of C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution

04/12/2023 10:47 AM <DIR> .
04/06/2023 01:48 PM <DIR> ..
04/12/2023 10:47 AM <DIR> cordovaProject
04/11/2023 11:52 PM <DIR> CSM3103
04/10/2023 06:47 PM <DIR> CSM3103_Omar
04/11/2023 11:44 PM <DIR> 31,614,604 CSM3103_S63955_Lab1.zip
04/12/2023 10:37 AM <DIR> Lab reports
1 File(s) 31,614,604 bytes
6 Dir(s) 82,776,031,232 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution>cd cordovaProject
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 9256-C63D

Directory of C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject

04/12/2023 10:47 AM <DIR> .
04/12/2023 10:47 AM <DIR> ..
0 File(s) 0 bytes
2 Dir(s) 82,774,708,224 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cordova create Task2Hello io.csm3103.Lab2 Task2
? May Cordova anonymously report usage statistics to improve the tool over time? No

You have been opted out of telemetry. To change this, run: cordova telemetry on.
Creating a new cordova project.

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>dir
OneDrive - umt.edu.my
Up to date
```

c- 1 &2

```
C:\WINDOWS\system32\cmd. X + v
04/12/2023 10:47 AM <DIR> .
04/12/2023 10:47 AM <DIR> ..
0 File(s) 0 bytes
2 Dir(s) 82,774,708,224 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cordova create Task2Hello io.csm3103.Lab2 Task2
? May Cordova anonymously report usage statistics to improve the tool over time? No

You have been opted out of telemetry. To change this, run: cordova telemetry on.
Creating a new cordova project.

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 9256-C63D

Directory of C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject

04/12/2023 10:49 AM <DIR> .
04/12/2023 10:47 AM <DIR> ..
04/12/2023 10:49 AM <DIR> Task2Hello
0 File(s) 0 bytes
3 Dir(s) 82,777,235,456 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cd Task2Hello
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 9256-C63D

Directory of C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello

04/12/2023 10:49 AM <DIR> .
04/12/2023 10:49 AM <DIR> ..
04/12/2023 10:34 AM 889 .gitignore
04/12/2023 10:49 AM 489 config.xml
04/12/2023 10:49 AM 383 package.json
04/12/2023 10:49 AM <DIR> www
3 File(s) 1,761 bytes
3 Dir(s) 82,776,408,064 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>cordova platform add browser
Using cordova-fetch for cordova-browser@6.0.0
```

D

```
C:\WINDOWS\system32\cmd. x + v - □ x

cordova platform add android
Using cordova-fetch for cordova-android@^10.1.1
Adding android project...
Creating Cordova project for the Android platform:
  Path: platforms\android
  Package: io.csm3103.lab2
  Name: Task2
  Activity: MainActivity
  Android target: android-30
Subproject Path: CordovaLib
Subproject Path: app
Android project created with cordova-android@10.1.2
|
```

E

```
C:\WINDOWS\system32\cmd. x + v - □ x

0 File(s) 0 bytes
3 Dir(s) 82,777,235,456 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cd Task2Hello
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 9256-C63D

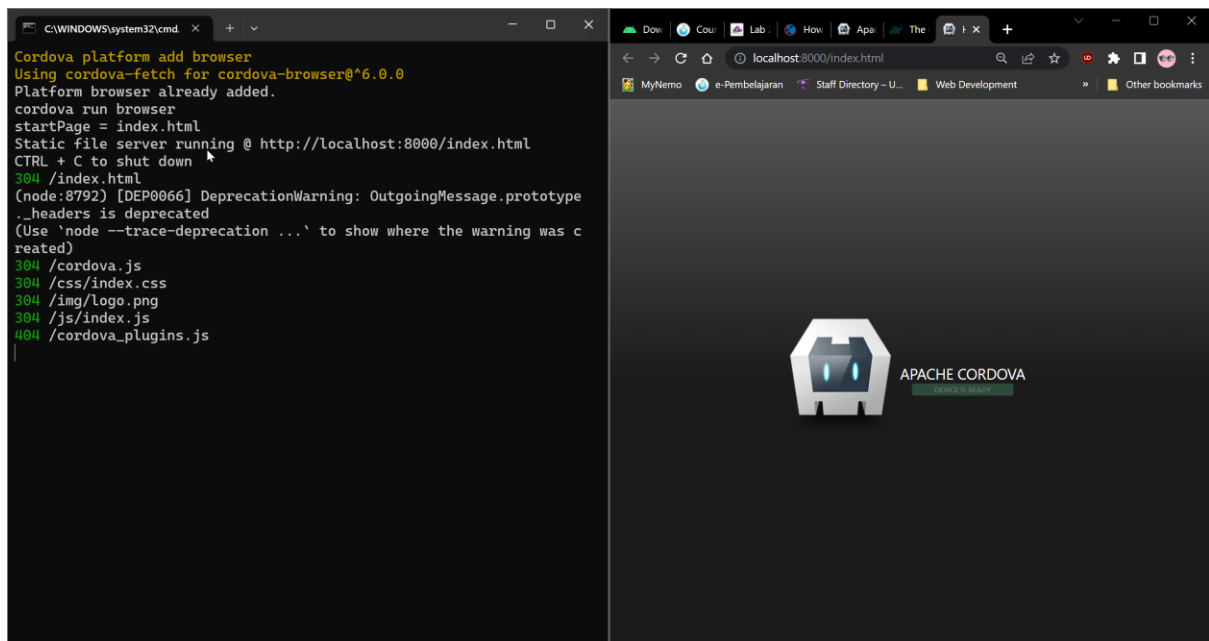
Directory of C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello

04/12/2023 10:49 AM <DIR>      .
04/12/2023 10:49 AM <DIR>      ..
04/12/2023 10:34 AM      889 .gitignore
04/12/2023 10:49 AM      489 config.xml
04/12/2023 10:49 AM      383 package.json
04/12/2023 10:49 AM <DIR>      www
          3 File(s)      1,761 bytes
          3 Dir(s) 82,776,408,064 bytes free

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>cordova platform add browser
Using cordova-fetch for cordova-browser@6.0.0
Adding browser project...
Creating Cordova project for cordova-browser:
  Path: C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello\platforms\browser
  Name: Task2

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>color 6
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task2Hello>|
```

F



```
C:\WINDOWS\system32\cmd.exe - emulator -c Galaxy Nexus API_30
INFO | Setting display: 0 configuration to 720x1280, dpi: 320x320
INFO | wait for emulator (pid 15480) 30 seconds to shutdown gracefully before kill;you ca
set environment variable ANDROID_EMULATOR_WAIT_TIME_BEFORE_KILL(in seconds) to change the
default value (20 seconds)
INFO | wait for emulator (pid 15480) 30 seconds to shutdown gracefully before kill;you ca
set environment variable ANDROID_EMULATOR_WAIT_TIME_BEFORE_KILL(in seconds) to change the
default value (20 seconds)
INFO | Critical: Failed to load https://maps.googleapis.com/maps/api/mapsjs/gen_004?csp-t
est=true: The 'Access-Control-Allow-Origin' header has a value 'qrc:///' that is not equal to
the supplied origin. Origin 'qrc:///' is therefore not allowed access. (qrc://html/js/commo
n.js:0, (null))
C:\Users\komar\OneDrive - unt.edu.my\Semester 4\CSN3103 FRONT-END PROGRAMMING by RABIEE B MAMAT MAMAT\Lab Solution\cordova
Project\Task2\Helloemulator\Task2Helloemulator -avd Galaxy Nexus API_30
INFO | Android emulator version 32.1.12.0 (build_id 9751063) (CL/N/A)
INFO | Found systemPath C:\Users\komar\AppData\Local\AndroidSdk\system-images\android-30
\googleapi_x86_64
INFO | Storing crashdata in C:\Users\komar\AppData\Local\Temp\SystemEmulator\emu-crash
.log, detection is enabled
INFO | Duplicate loglines will be removed, if you wish to see each individual line launch
with the -log-roller flag.
WARNING | Please update the emulator to one that supports the feature(s): Vulkan
INFO | IPV4 server address: 8.8.8.8
INFO | added library vulkan-1.dll
WARNING | Windows 10 0.22621 detected.
WARNING | Windows Hypervisor Platform accelerator is operational
WARNING | *** No GPC protection active, consider launching with the -grpc-use-jwt flag.***
INFO | Started GPC server at 127.0.0.1:8554, security: Local, auth: none
INFO | Advertising in C:\Users\komar\AppData\Local\Temp\avd\running_pid284.ini
INFO | Extensive logging: 0 configuration to 720x1280, dpi: 320x320
WARNING | restoring GLES1 context from snapshot. App may need reloading.
INFO | Root completed
INFO | Increasing screen off timeout, logcat buffer size to 2M.
WARNING | Revoking microphone permission for Google Play tasks: 48 up-to-date
INFO | Critical: Failed to load https://maps.googleapis.com/maps/api/mapsjs/gen_004?csp-t
est=true: The 'Access-Control-Allow-Origin' header has a value 'qrc:///' that is not equal to
the supplied origin. Origin 'qrc:///' is therefore not allowed access. (qrc://html/js/commo
n-mock-web-channel.js:0, (null))
INFO | Critical: Failed to load https://maps.googleapis.com/maps/api/mapsjs/gen_004?csp-t
est=true: The 'Access-Control-Allow-Origin' header has a value 'qrc:///' that is not equal to
the supplied origin. Origin 'qrc:///' is therefore not allowed access. (qrc://html/js/location
-mock-web-channel.js:0, (null))
INFO | Critical: Failed to load https://maps.googleapis.com/maps_api.js_slo/log/masHasTest
true: The 'Access-Control-Allow-Origin' header has a value 'qrc:///' that is not equal to
the supplied origin. Origin 'qrc:///' is therefore not allowed access. (qrc://html/js/location-mo
ck-web-channel.js:0, (null))

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.22621.1413]
(c) Microsoft Corporation. All rights reserved.

C:\Users\komar\OneDrive - unt.edu.my\Semester 4\CSN3103 FRONT-END PROGRAMMING by RABIEE B MAMAT MAMAT\Lab Solution\cordova
Project\Task2\Helloemulator> run android
Checking Java JDK and Android SDK versions
ANDROID_SDK_ROOT=undefined (recommended setting)
ANDROID_HOME=undefined (DEPRECATED)
Using Android SDK: C:\Users\komar\AppData\Local\AndroidSdk
Subproject Path: CordovaLib
Subproject Path: app
Starting a Gradle Daemon, 2 incompatible Daemons could not be reused, use --status for details
Warning: Mapping new ns http://schemas.android.com/repository/android/common/02 to old ns http://schemas.android.com/repos
itory/android/common/01
Warning: Mapping new ns http://schemas.android.com/repository/android/generic/02 to old ns http://schemas.android.com/repo
sitary/android/generic/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/addon2/02 to old ns http://schemas.android.com/sdks/an
droid/repo/addon2/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/addon2/03 to old ns http://schemas.android.com/sdks/an
droid/repo/addon2/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/repository2/02 to old ns http://schemas.android.com/sd
k/android/repo/repository2/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/repository2/03 to old ns http://schemas.android.com/sd
k/android/repo/repository2/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/sys-img2/03 to old ns http://schemas.android.com/sdks/a
ndroid/repo/sys-img2/01
Warning: Mapping new ns http://schemas.android.com/sdks/android/repo/sys-img2/02 to old ns http://schemas.android.com/sdks/a
ndroid/repo/sys-img2/01

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own scri
pts or plugins.

See https://docs.gradle.org/7.1.1/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 12s
10 actionable tasks: 48 up-to-date
The following apk(s):
C:\Users\komar\OneDrive - unt.edu.my\Semester 4\CSN3103 FRONT-END PROGRAMMING by RABIEE B MAMAT MAMAT\Lab Solution
\cordova\project\Task2\Helloemulator\build\outputs\apk\debug\app-debug.apk
Checking Java JDK and Android SDK versions
ANDROID_SDK_ROOT=C:\Users\komar\AppData\Local\AndroidSdk (recommended setting)
ANDROID_HOME=undefined (DEPRECATED)
Using Android SDK: C:\Users\komar\AppData\Local\AndroidSdk
Deploying to emulator emulator-5554
Using apk: C:\Users\komar\OneDrive - unt.edu.my\Semester 4\CSN3103 FRONT-END PROGRAMMING by RABIEE B MAMAT MAMAT\Lab Solu
tion\cordova\project\Task2\Helloemulator\build\outputs\apk\debug\app-debug.apk
Package name: io.csn3103.Lab2
INSTALL SUCCESS
LAUNCH SUCCESS

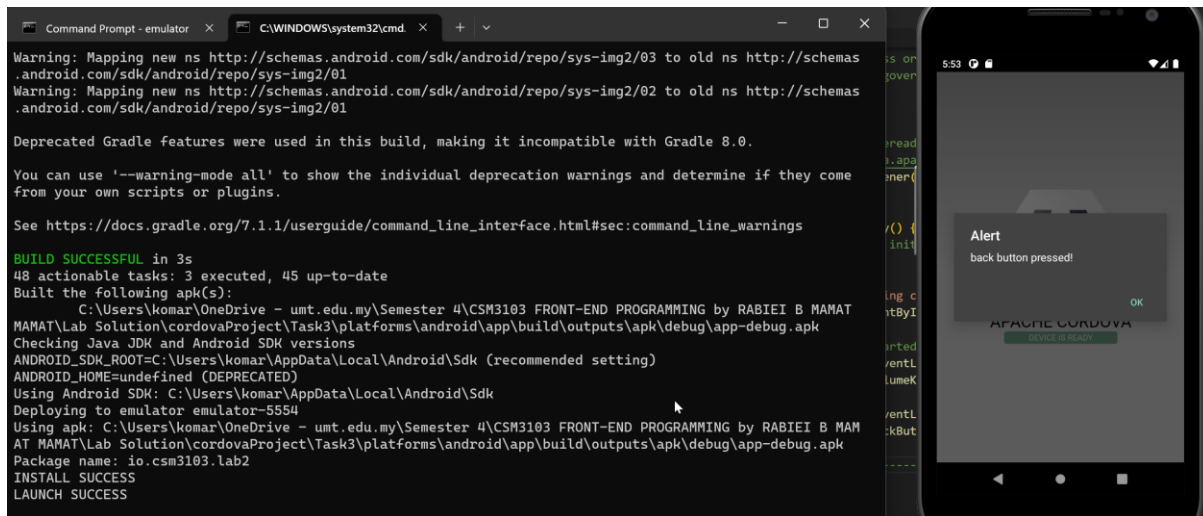
C:\Users\komar\OneDrive - unt.edu.my\Semester 4\CSN3103 FRONT-END PROGRAMMING by RABIEE B MAMAT MAMAT\Lab Solution\cordova
Project\Task2\Hello
```



### Task 3

4&5&6

Run the app, back button pressed, volume down pressed.

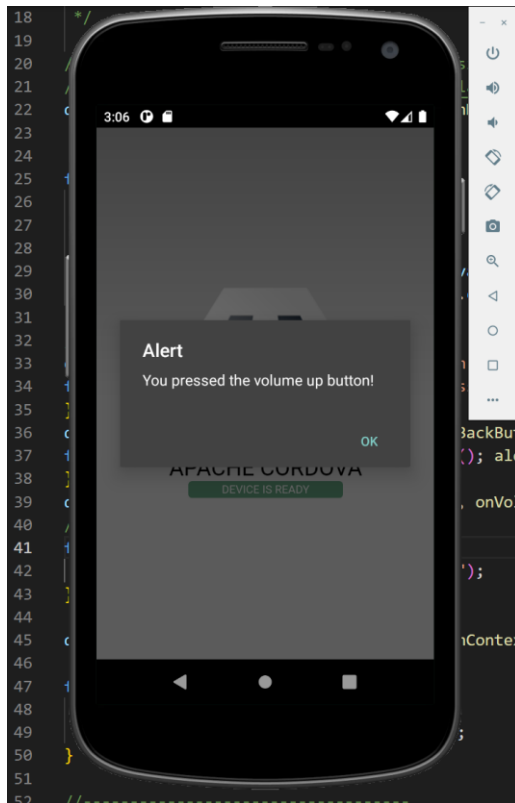


### 7. What is the purpose of e.preventDefault()?

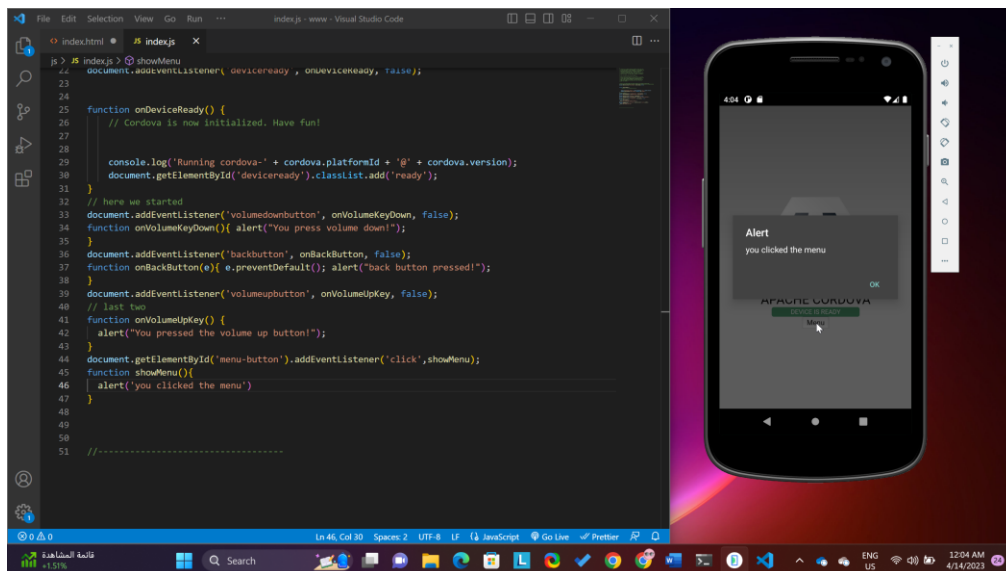
The `e.preventDefault()` function in Cordova JavaScript is used to prevent the default action of an event from occurring. When an event is triggered, such as a click or a volume button down, the emulator automatically performs a default action associated with that event (such as Alert or any other action).



## 8.a Handle volume up button.



## 8.b b. Handle menu button





## Task 4

1 & 2.

```
C:\Windows\System32\cmd.exe x C:\WINDOWS\system32\cmd. x + v
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cordova create Task4 io.csm3103.lab2 Task4
Creating a new cordova project.

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cordova add platform android
Cordova does not know add; try 'cordova help' for a list of all the available commands.

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cordova platform add android
Current working directory is not a Cordova-based project.

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject>cd Task4

C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task4>cordova platform add android
Using cordova-fetch for cordova-android@^10.1.1
Adding android project...
Creating Cordova project for the Android platform:
  Path: platforms\android
  Package: io.csm3103.lab2
  Name: Task4
  Activity: MainActivity
  Android target: android-30
Subproject Path: CordovaLib
Subproject Path: app
Android project created with cordova-android@10.1.2

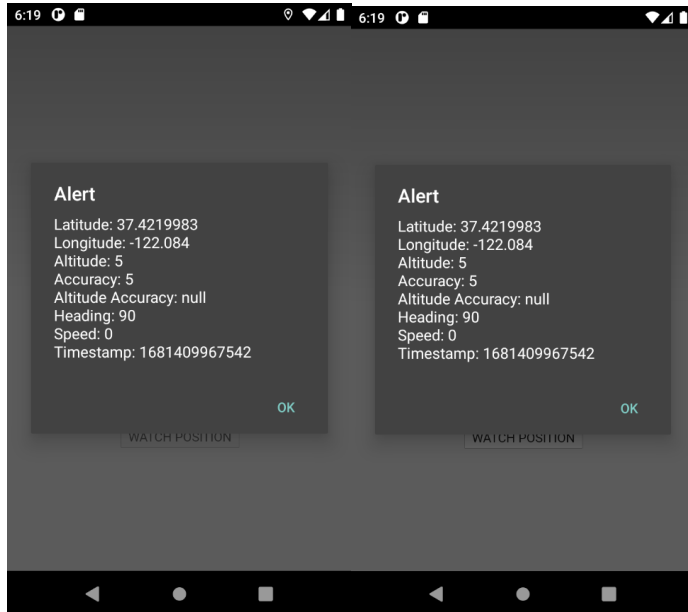
C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3103 FRONT-END PROGRAMMING by RABIEI B MAMAT MAMAT\Lab Solution\cordovaProject\Task4>
```

3.

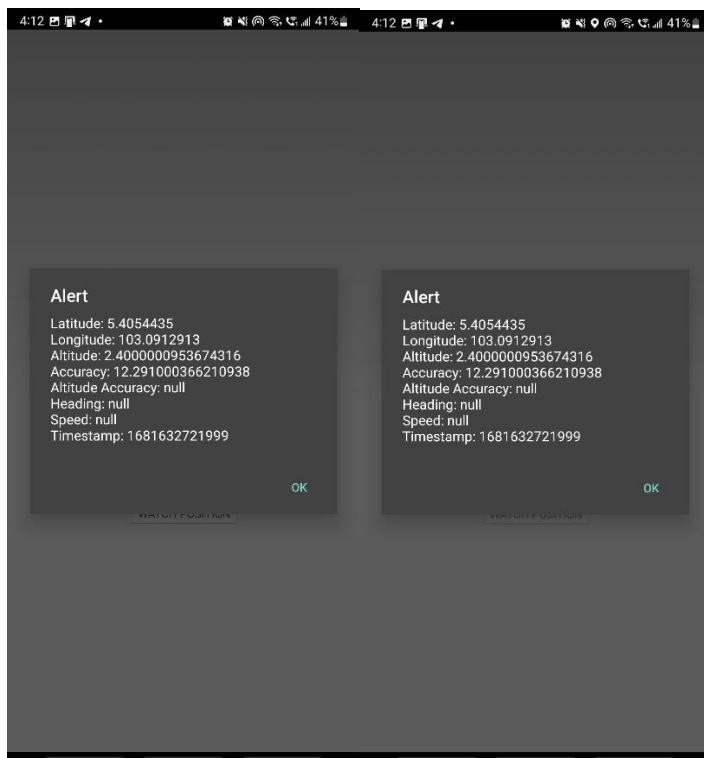
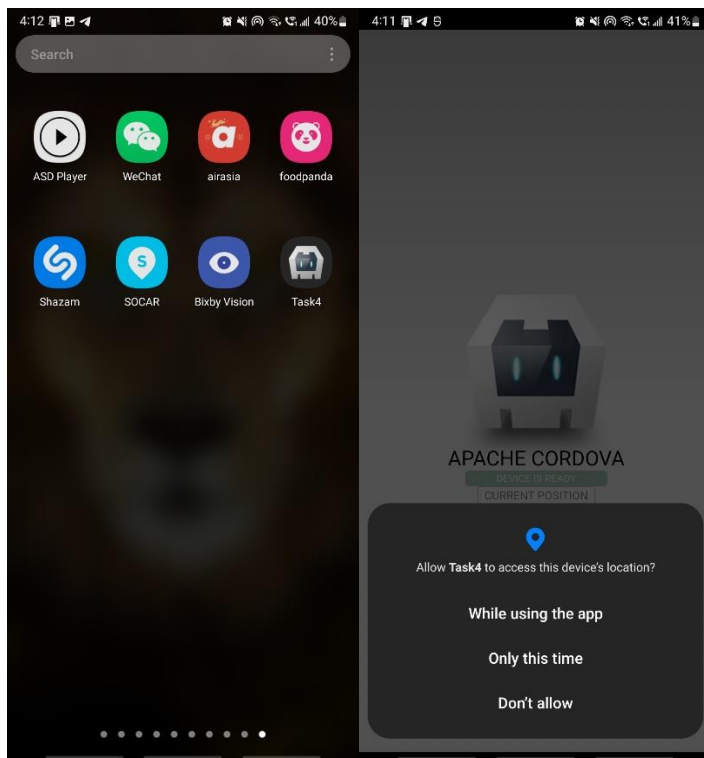
```
<body>
  <div class="app">
    <h1>Apache Cordova</h1>
    <div id="deviceready" class="blink">
      <p class="event listening">Connecting to Device</p>
      <p class="event received">Device is Ready</p>
      <button class="getPosition">Current Position</button>
      <button class="watchPosition">Watch Position</button>
    </div>
  </div>
  <script src="cordova.js"></script>
  <script src="js/index.js"></script>
</body>
```

## Step 5 to 10

Testing it with the virtual phone first



Physical device(mine)



---

**Github Link**

<https://github.com/Alomory/CSM3103/tree/main/Lab2>