



**UNIVERSITI MALAYSIA TERENGGANU**

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**CSM3103 FRONT-END PROGRAMMING (K1)**

**BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH  
HONORS**

**LAB 2**

**SEMESTER II 2023/2024**

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**Prepared for:**

DR. RABIEI B MAMAT

**Prepared by:**

MUHAMMAD HARITH BIN ZULKIFLI

(S67335)

## Task 1 – Setup and configure Apache cordova on your desktop/laptop

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.3447]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ACER>npm install -g cordova
npm WARN deprecated @npmcli/move-file@2.0.1: This functionality has been moved to @npmcli/fs
npm WARN deprecated stringify-package@1.0.1: This module is not used anymore, and has been replaced by @npmcli/package-json
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
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

changed 547 packages in 34s

62 packages are looking for funding
  run 'npm fund' for details

C:\Users\ACER>cordova --version
12.0.0 (cordova-lib@12.0.1)

C:\Users\ACER>cordova helloworld com.helloworld.io HelloWorld
Cordova does not know helloworld; try 'cordova help' for a list of all the available commands.

C:\Users\ACER>cordova create helloworld com.helloworld.io HelloWorld
Path already exists and is not empty: C:\Users\ACER\helloworld

C:\Users\ACER>cd helloworld

C:\Users\ACER\helloworld>dir
Volume in drive C is Acer
Volume Serial Number is 7E35-65A5
```

```
Directory of C:\Users\ACER\helloworld

04/15/2024  02:44 PM    <DIR>          .
04/22/2024  12:27 AM    <DIR>          ..
04/15/2024  02:31 PM             889 .gitignore
04/15/2024  02:42 PM             496 config.xml
04/15/2024  02:44 PM    <DIR>          node_modules
04/15/2024  02:44 PM        63,946 package-lock.json
04/15/2024  02:44 PM        510 package.json
04/15/2024  02:44 PM    <DIR>          platforms
04/15/2024  02:42 PM    <DIR>          www
           4 File(s)        65,841 bytes
           5 Dir(s)   130,889,150,464 bytes free

C:\Users\ACER\helloworld>cordova platform add browser
Using cordova-fetch for cordova-browser@^7.0.0
Platform browser already added.

C:\Users\ACER\helloworld>cordova run browser
startPage = index.html
Static file server running @ http://localhost:8000/index.html
CTRL + C to shut down
304 /index.html
304 /css/index.css
304 /img/logo.png
200 /cordova.js (gzip)
404 /cordova_plugins.js
200 /js/index.js (gzip)
304 /favicon.ico
|
```

## Task 2 – Your First Apache Cordova Application

```
Windows PowerShell
C:\Users\ACER>cd cordovaProject
C:\Users\ACER\cordovaProject>cordova create Task2Hello io.csm3103.lab2 Task2
Creating a new cordova project.
C:\Users\ACER\cordovaProject>cd Task2Hello
C:\Users\ACER\cordovaProject\Task2Hello>cordova platform add browser
Using cordova-fetch for cordova-browser
Adding browser project...
Creating Cordova project for cordova-browser:
  Path: C:\Users\ACER\cordovaProject\Task2Hello\platforms\browser
  Name: Task2
C:\Users\ACER\cordovaProject\Task2Hello>Cordova platform add browser
Using cordova-fetch for cordova-browser@7.0.0
Platform browser already added.
C:\Users\ACER\cordovaProject\Task2Hello>cordova run browser
startPage = index.html
Static file server running @ http://localhost:8000/index.html
CTRL + C to shut down
304 /index.html
304 /css/index.css
304 /img/logo.png
200 /cordova.js (gzip)
304 /js/index.js
404 /cordova_plugins.js
```



APACHE CORDOVA  
DEVICE IS READY

### Task3 – Simple eventListener in Cordova Project

```
Windows PowerShell
Microsoft Windows [Version 10.0.22621.3447]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ACER>cd Desktop
The system cannot find the path specified.

C:\Users\ACER>mkdir cordovaProject
A subdirectory or file cordovaProject already exists.

C:\Users\ACER>cd cordovaProject

C:\Users\ACER\cordovaProject>cordova create Task3EventListener io.csm3103.lab2 Task3
Creating a new cordova project.

C:\Users\ACER\cordovaProject>cd Task3EventListener

C:\Users\ACER\cordovaProject\Task3EventListener>cordova platform add browser
Using cordova-fetch for cordova-browser
Adding browser project...
Creating Cordova project for cordova-browser:

    Path: C:\Users\ACER\cordovaProject\Task3EventListener\platforms\browser
    Name: Task3

C:\Users\ACER\cordovaProject\Task3EventListener>cordova run browser
startPage = index.html
Static file server running @ http://localhost:8000/index.html
CTRL + C to shut down
304 /index.html
304 /css/index.css
304 /img/logo.png
200 /cordova.js (gzip)
304 /js/index.js
404 /cordova_plugins.js
```

Do some research on how to add two controls to you index.js to do the following:

- a. Handle volume up button

```
document.addEventListener('volumeupbutton', onVolumekeyUp, false);

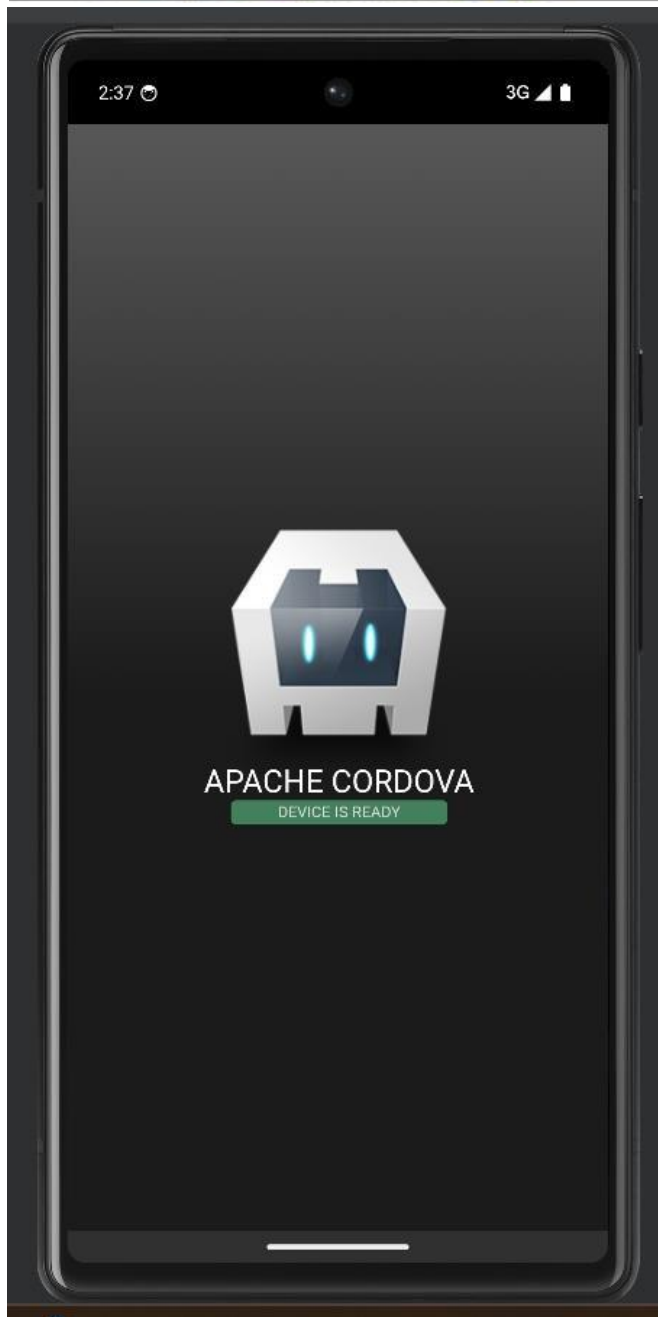
function onVolumekeyUp(){
    alert("You press volume up!");
}

document.addEventListener('upbutton', onUpButton, false);

function onUpButton(e){
    e.preventDefault();
    alert("Up button pressed!");
}
}
```

b. Handle menu button

```
28 document.addEventListener('backbutton',onBackButton,false);  
29  
30 function onBackButton(e){
```



## Task 4 – Cordova Plugin use case (Simple Geolocation)

```
Windows PowerShell
The system cannot find the path specified.

C:\Users\ACER>mkdir cordovaProject
A subdirectory or file cordovaProject already exists.

C:\Users\ACER>cd cordovaProject

C:\Users\ACER\cordovaProject>cordova create Task4Geolocation io.csm3103.lab2 Task4
Creating a new cordova project.

C:\Users\ACER\cordovaProject>cd Task3Geolocation
The system cannot find the path specified.

C:\Users\ACER\cordovaProject>Cordova platform add browser
Current working directory is not a Cordova-based project.

C:\Users\ACER\cordovaProject>cordova run browser
Current working directory is not a Cordova-based project.

C:\Users\ACER\cordovaProject>cd Task4Geolocation

C:\Users\ACER\cordovaProject\Task4Geolocation>cordova platform add browser
Using cordova-fetch for cordova-browser
Adding browser project...
Creating Cordova project for cordova-browser:
  Path: C:\Users\ACER\cordovaProject\Task4Geolocation\platforms\browser
  Name: Task4

C:\Users\ACER\cordovaProject\Task4Geolocation>cordova run browser
startPage = index.html
Static file server running @ http://localhost:8000/index.html
CTRL + C to shut down
304 /index.html
304 /css/index.css
304 /img/logo.png
200 /cordova.js (gzip)
304 /js/index.js
404 /cordova_plugins.js
```



```

document.getElementById("watchPosition").addEventListener("click", watchPosition);

function watchPosition(){
    var options = {
        maximumAge: 3600000,
        timeout: 3000,
        enableHighAccuracy: true,
    }

    var watchID = navigator.geolocation.watchPosition(onSuccess, onError, options);

    function onSuccess(position){
        alert('Latitude: ' + position.coords.latitude + '\n' +
            'Longitude: ' + position.coords.longitude + '\n' +
            'Altitude: ' + position.coords.altitude + '\n' +
            'Accuracy: ' + position.coords.accuracy + '\n' +
            'Altitude Accuracy: ' + position.coords.altitudeaccuracy + '\n' +
            'Heading: ' + position.coords.heading + '\n' +
            'Speed: ' + position.coords.speed + '\n' +
            'Timestamp: ' + position.coords.timestamp + '\n');
    }

    function onError(error){
        alert('code: ' + error.code + '\n' + 'message: ' + error.message + '\n');
    }
}

```



APACHE CORDOVA

Current Position Watch Position

DEVICE IS READY



Github Repository

<https://github.com/riezuuuu/CSM3103-Lab2>