

#### UNIVERSITI MALAYSIA TERENGGANU

## CSM3103 FRONT-END PROGRAMMING (K1)

# BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

LAB 2

### **SEMESTER II 2023/2024**

Prepared for:

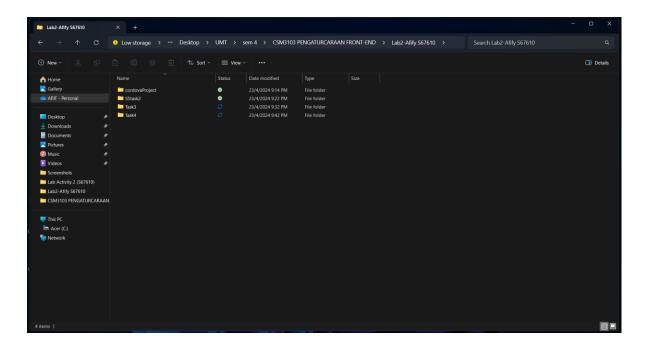
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Prepared by:

ARIF AFIFY BIN SULAIMAN

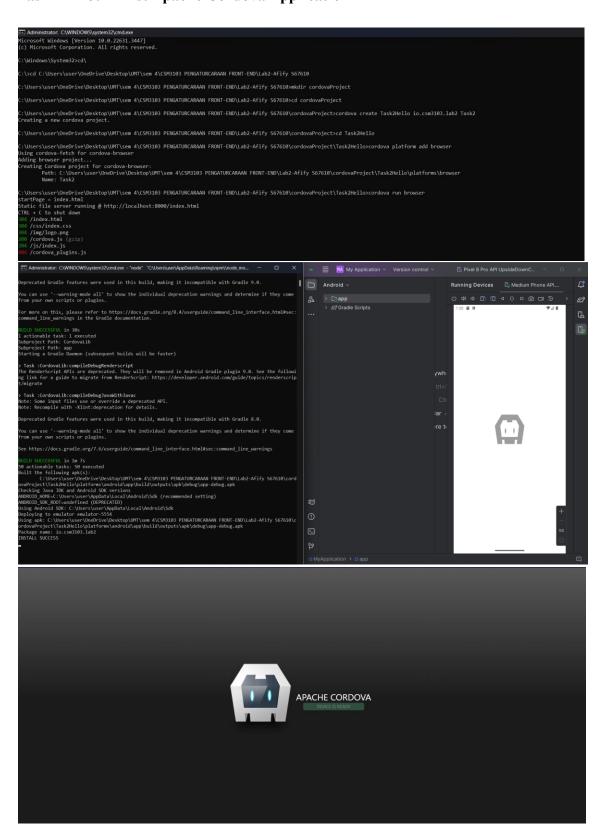
(S67610)

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

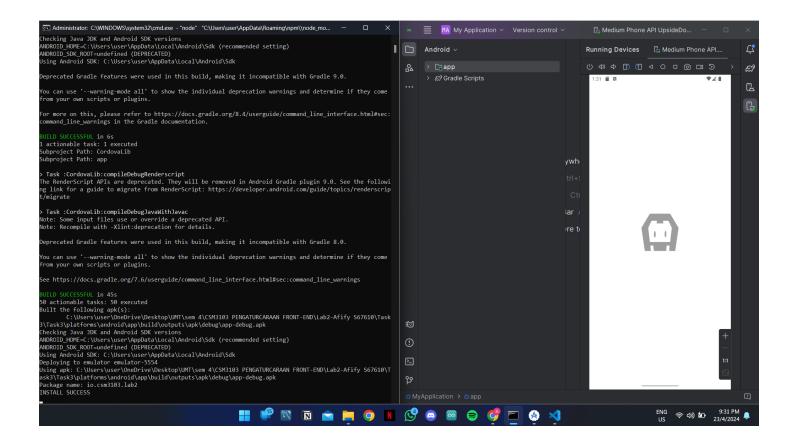


```
15/04/2024
           04:45 PM
                        <DIR>
21/04/2024
           12:44 PM
                        <DIR>
                                   889 .gitignore
15/04/2024
           02:47 PM
15/04/2024
           04:45 PM
                        <DIR>
                                       .idea
15/04/2024
           02:58 PM
                                   496 config.xml
15/04/2024
           03:02 PM
                        <DIR>
                                       node_modules
15/04/2024
           03:02 PM
                                63,946 package-lock.json
15/04/2024
           03:02 PM
                                   510 package.json
                                       platforms
15/04/2024
           03:02 PM
                        <DIR>
15/04/2024 02:58 PM
                        <DIR>
                                       WWW
               4 File(s)
                                 65,841 bytes
               6 Dir(s)
                          7,203,487,744 bytes free
C:\Users\
               \helloworld>cordova platform add browser
Using cordova-Fetch for cordova-browser@^7.0.0
Platform browser already added.
C:\Users\
               \helloworld>cordova run browser
startPage = index.html
Static file server running @ http://localhost:8000/index.html
CTRL + C to shut down
 00 /index.html (gzip)
 00 /css/index.css (gzip)
 00 /img/logo.png
 00 /cordova.js (gzip)
   /cordova_plugins.js
 00 /js/index.js (gzip)
```

### Task 2 – Your First Apache Cordova Application



#### Task3 – Simple eventListener in Cordova Project



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!");
}
```

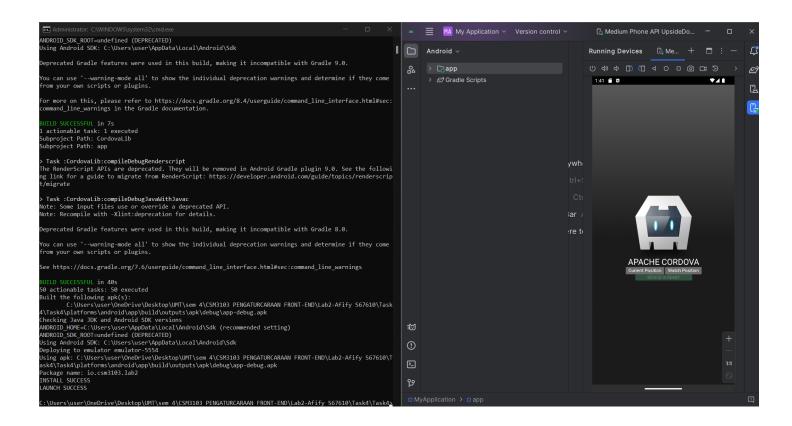
# b. Handle menu button

```
document.addEventListener('backbutton',onBackButton,false);

function onBackButton(e){
```



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



```
<meta charset="utf-8">
            https://cordova.apache.org/docs/en/latest/
        <meta http-equiv="Content-Security-Policy" content="default-src 'self' data: https://ssl.gstatic.com 'unsa</pre>
        <meta name="format-detection" content="telephone=no">
        <meta name="msapplication-tap-highlight" content="no">
        <meta name="viewport" content="initial-scale=1, width=device-width, viewport-fit=cover">
        <meta name="color-scheme" content="light dark">
        <link rel="stylesheet" href="css/index.css">
        <title>Hello World</title>
        <div class="app">
            <h1>Apache Cordova</h1>
            <button id="getPosition">Current Position
            <button id="watchPosition">Watch Position/button>
            <div id="deviceready" class="blink">
                Connecting to Device
                Device is Ready
        <script src="cordova.js"></script>
        <script src="js/index.js"></script>
document.addEventListener('deviceready', onDeviceReady, false);
function onDeviceReady() {
   console.log('Running cordova-' + cordova.platformId + '@' + cordova.version);
   document.getElementById('deviceready').classList.add('ready');
document.getElementById("getPosition").addEventListener("click", getPosition);
function getPosition(){
   var options = {
      enableHighAccuracy: true,
      maximumAge: 3600000
   var watchID = navigator.geolocation.getCurrentPosition(onSuccess, onError, options);
   function onSuccess(position){
      alert('Latitude: '
                               + position.coords.latitude
                              + position.coords.longtitude
                                                                  + '\n' +
                              + position.coords.latitude
                              + position.coords.accuracy
                              + position.coords.altitudeAccuracy
                              + position.coords.heading
           'Speed:
                              + position.coords.speed
                                                                  + '\n');
                              + position.coords.timestamp
   function onError(error){
      alert('code: ' + error.code + '\n' + 'message: ' + error.message + '\n');
```

```
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.longtitude
'Longtitude: ' + position.coords.longtitude
'Longtitude: ' + position.coords.longtitude
                                                                                          + '\n' +
                                                                                        + '\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');
```



Github Repository https://github.com/MatReppo/CSM3103-Lab2-S67610