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MATRIC NO: S63762

PROGRAMME: BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)

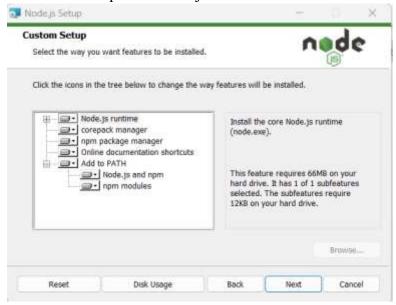
LECTURER : DR RABIEI B MAMAT

Task 1

1. Install the node.js



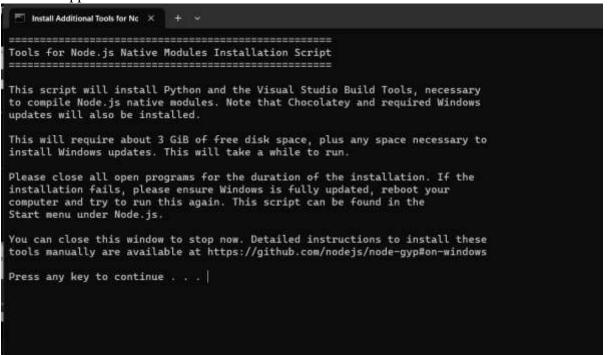
2. Make sure the npm and node.js is under the Add to PATH icon.:



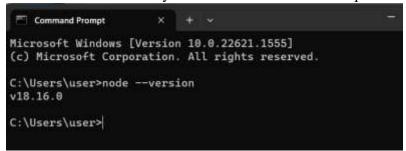
3. Click install



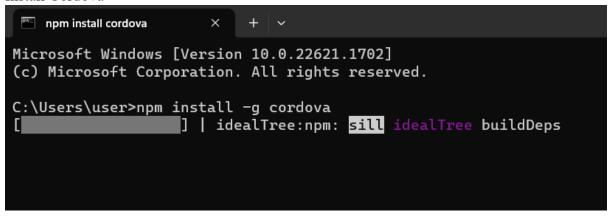
4. This will appear.



5. Check if it is successfully installed in Command Prompt.



- 6. Install GIT at git-scm.com
- 7. Install Cordova



-g mean to install it globally.

8. Cordova is successfully installed.

```
Command Prompt
                                                        - reify:fs-extra: http://etch GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-reify:fs-extra: http://etch GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-
                                                                                                                                       GET 208 https://registry.npmjs.org//s-extra/-/fs-extra-
GET 208 https://registry.npmjs.org/fs-extra/-/fs-extra-
GET 208 https://registry.npmjs.org/fs-extra/-/fs-extra-
GET 208 https://registry.npmjs.org/fs-extra/-/fs-extra-
                                                         - reify:fs-extra: http:/
                                                         - reify:fs-extra: http
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                                                                                                                                       GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-
GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-
                                                         - reify:fs-extra: http
                                                         - reify:fs-extra: http
                                                         - reify:fs-extra: http fetch GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-
                                                         - reify:fs-extra: http fetch GET 200 https://registry.npmjs.org/fs-extra/-/fs-extra-

reify:rxjs: http fetch GET 200 https://registry.npmjs.org/rxjs/-/rxjs-6.6.7.tgz 93
                                                             reify:rxjs: http Fatch GET 260 https://registry.npmjs.org/rxjs/-/rxjs-6.6.7.tgz 93
added 490 packages in 1m
53 packages are looking for funding
run 'npm fund' for details
npm notice
npm notice New minor version of npm available! 9.5.1 -> 9.6.6
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.6
npm notice Run npm install -g npm@9.6.6 to update!
C:\Users\user>
    \Description=cordova
May Cordova anonymously report usage statistics to improve the tool over time? Yes
       cordeve command [options]
                                                                       Create a project
Set heip for a command
Turn telemetry collection on or off
Set, get, deleta, edit, and list global cordeva options
 Project Commands
Anfo
                                                                       Generate project information
Checks and print out all the requirements
for platforms specified
       requirements
        platform
plugin
                                                                        Manage project platfores
Manage project plugins
                                                                       Copy files into platform(s) for building
Build platform(s)
Cleanup project from build artifacts
               Sun project
(including propers SK compile)

Bun project with a local sebserver
(including propers)
 tearn more about command options using 'cordova help <command>
Aliases
build - cordeva prepare AA cordeva compile
smulate -> cordeva ruc --smulater
       ions

-y -wersion prints but this utility's version

-d, -verbose debug mode produces verbose log output for all activity,
-no-update-notifier disables chack for CLI updates
-nehooks severating hooks

(taking RegExp hook patterns as parameters)
```

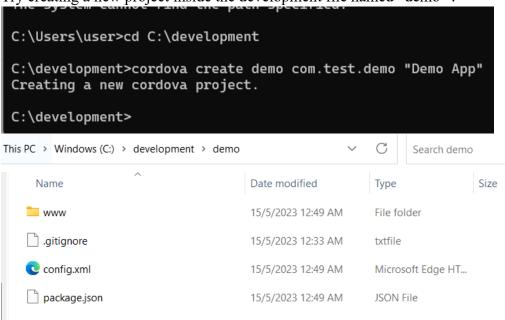
This is the cordova version that I've installed:

ns run audroid na halid addroid —zeleasa — —koystore=". \andreid koystoro" —store@assmord:android —elizs=mybby na cenfig la

```
C:\Users\user>cordova -v
11.1.0
```

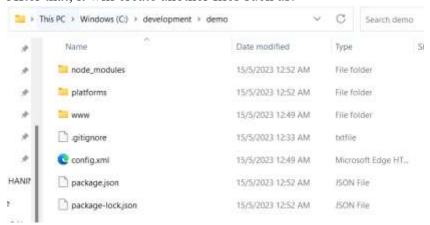
9. Create/ setting the environment in the Local Disk C named "development"

10. Try creating a new project inside the development file named "demo".



11. Tell the cordova to create an app which the platform is Android by typing 'cordova platform add android'.

After that, it will create another files such as:-



And in the platform folder there will be android folder.

12. Install Java Development Kit(JDK) version 11.0.19 to the computer.

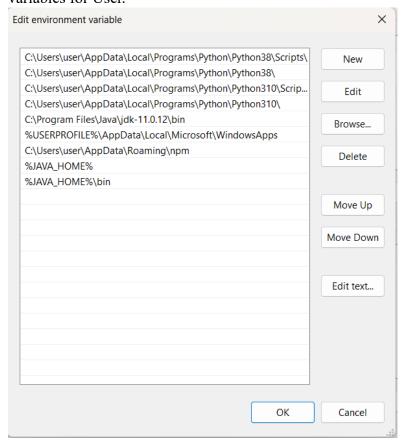


13. Do some setting for the JDK.

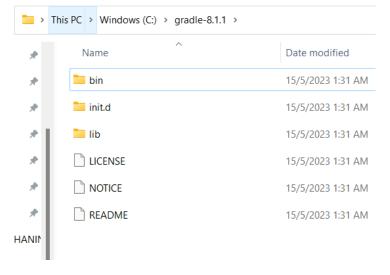
Add JAVA_HOME and the java file for the value at System variables.

| Variable | Value |
|----------------------|-----------------------------------------------------------|
| DriverData | C:\Windows\System32\Drivers\DriverData |
| JAVA_HOME | C:\Program Files\Java\jdk-11 |
| NUMBER_OF_PROCESSORS | 8 |
| OnlineServices | Online Services |
| OS | Windows_NT |
| Path | C:\Program Files\Common Files\Oracle\Java\javapath;C:\WIN |
| PATHEXT | .COM;,EXE;,BAT;,CMD;,VBS;,VBE;,JS;,JSE;,WSF;,WSH;,MSC |
| 1.16 | 10.7 |

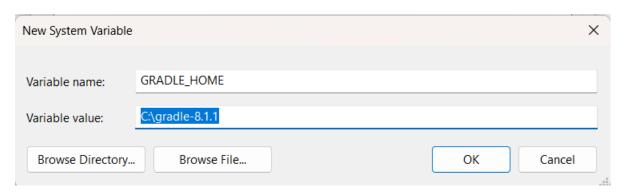
Then, add %JAVA_HOME% and %JAVA_HOME% \bin in the Path for the User variables for User.

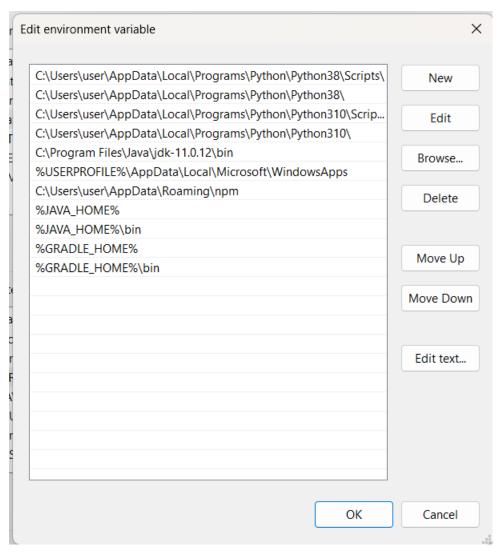


14. Install Gradle

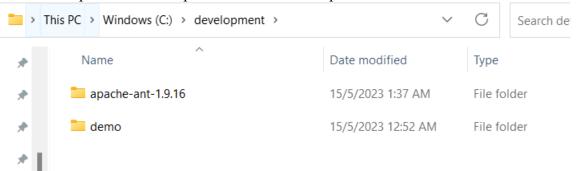


Next, setup the setting for the Gradle.



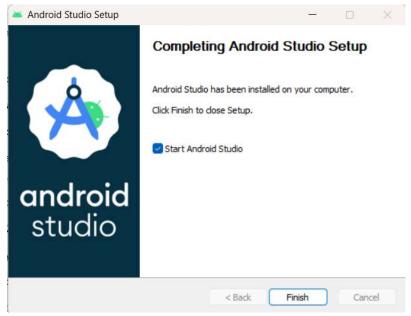


15. Download Apache ANT and put it inside the development file.

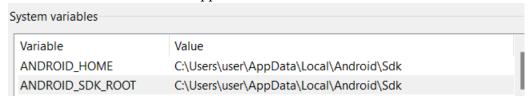


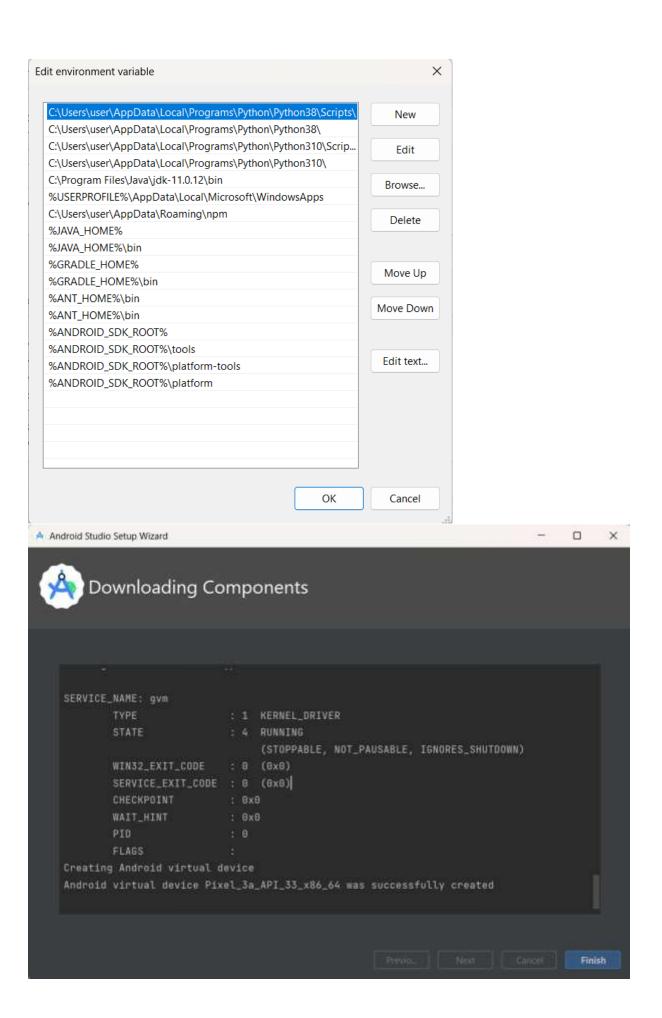
Next, setup the environment variable as usual.

16. Install the Android SDK or Android Studio



SDK Folder: C:\Users\user\AppData\Local\Android\Sdk





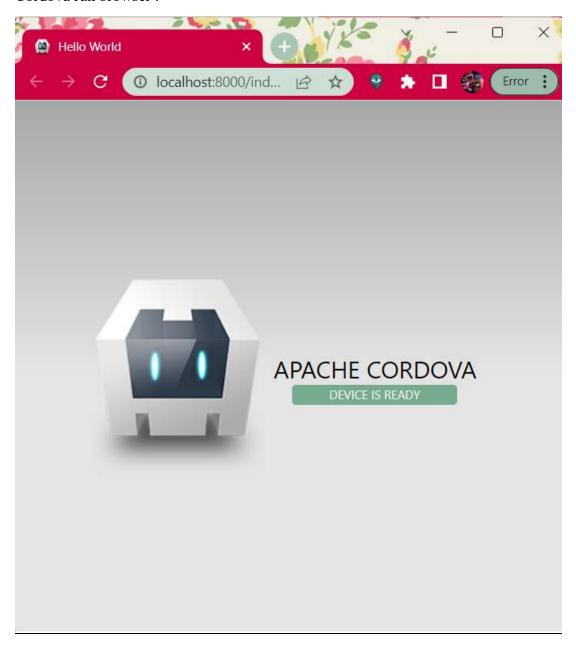
17. Install Emulator

Nox Player is installed.





Cordova run browser :-



First cordova project on android



Task 3

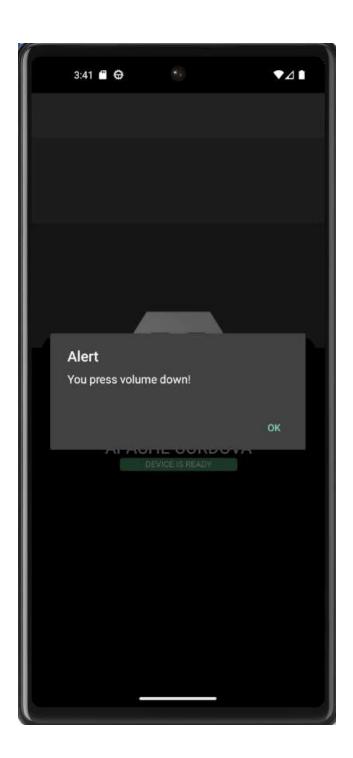
```
document.addEventListener('volumedownbutton', onVolumeKeyDown, false);

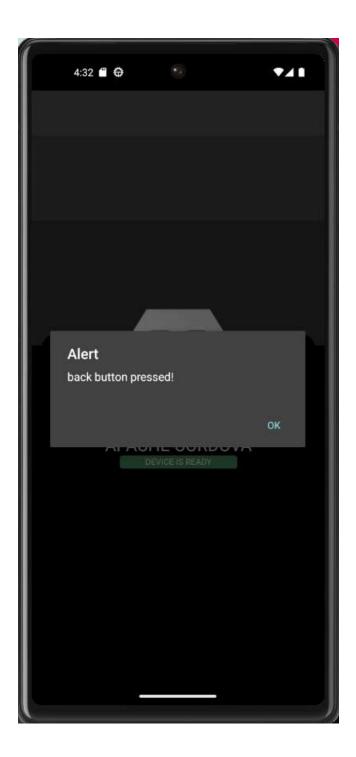
function onVolumeKeyDown() {
    alert("You press volume down!");
}

function onBackButton(e) {
    e.preventDefault();
    alert("back button pressed!");
}
```

4.







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

The preventDefault() method cancels the event if it is cancelable, meaning that the default action that belongs to the event will not occur. For example, this can be useful when: Clicking on a "Submit" button, prevent it from submitting a form. Clicking on a link, prevent the link from following the URL.

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

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

document.addEventListener("menubutton", onMenuKeyDown, false);

function onMenuKeyDown() {
    alert("You press menu button!");
}

alert("You press menu button!");
}
```

```
<body>
40
            <div class="app">
               <h1>Apache Cordova</h1>
41
               <div id="deviceready" class="blink">
42
43
                   Connecting to Device
44
                   Device is Ready
45
               </div>
46
               <button id="getPosition">Current Position</button>
               <button id="watchPosition">Watch Position</button>
47
48
            </div>
            <script src="cordova.js"></script>
            <script src="js/index.js"></script>
50
        </body>
     </html>
52
```

3. Add the given code on line 46 and 46 to index.html

```
<button id="getPosition">Current Position</button>
<button id="watchPosition">Watch Position</button>
```

4. Open index.js and add the following code inside the ready function

6. Enable developer mode.



10. Run cordova

```
C:\Users\user\Desktop\Sem 4\Pengaturcaraan Front-End\Task4>cd Task4

C:\Users\user\Desktop\Sem 4\Pengaturcaraan Front-End\Task4\Task4>cordova run andro id

Checking Java JDK and Android SDK versions

ANDROID_SDK_ROOT=C:\Users\user\AppData\Local\Android\Sdk (recommended setting)

ANDROID_HOME=C:\Users\user\AppData\Local\Android\Sdk (DEPRECATED)

Using Android SDK: C:\Users\user\AppData\Local\Android\Sdk

Subproject Path: CordovaLib

Subproject Path: app

Starting a Gradle Daemon, 1 incompatible and 1 stopped Daemons could not be reused, use --status for details

Warning: Mapping new ns http://schemas.android.com/repository/android/common/01

Warning: Mapping new ns http://schemas.android.com/repository/android/generic/02 to old ns http://schemas.android.com/repository/android/generic/01

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/03

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/03

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/03

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/01

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/03

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/01

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/01

Warning: Mapping new ns http://schemas.android.com/sdk/android/repo/addon2/01
```



Link GitHub for the lab: https://github.com/ilhamhanina/Code-Lab-CSM3103-S63762.git