sencha build -› android build

Mobile Hybrid App - using IBM Worklight

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intro...

The development of mobile applications that run on many smartphones was considered a very difficult concern for mobile developers. Mobiles are different: multi-OS, multi-devices, multi-sizes, etc.,

Native execution is considered one of the best solutions to this concern.

Many companies have chosen hybrid mobile apps as a solution to this diversity in the mobile world.

advantages ...

> Hybrid mobile apps combine the benefits of native and web mobile apps, so we can develop one time using HTML5, JavaScript and CSS3, and deploy for all devices.

> Hybrid apps can access the mobile native features: Camera, Compass, Files, etc., cutting the development life cycle complexity, time and cost, and gaining the advantages of native apps.

IBM Worklight

> open, complete and advanced mobile enterprise application platform for HTML5, hybrid and native mobile applications.

> It lets developers use JavaScript, HTML5 and CSS3 to develop applications for different mobile devices.

> it also gives enterprises a set of features: version management, application center, direct update, push notification, connectivity to databases, web services and an enterprise information system.

consists of...

IBM Worklight Studio is an Eclipse based IDE, allowing developers to perform all coding, testing and integration tasks for web, hybrid or native mobile applications.

setting up

install IBM Worklight ...

> get help here ...
https://www-01.ibm.com/support/knowledgecenter/SSZH4A_6.1.0/com.ibm.worklight.installconfig.doc/devenv/t_installing_ibm_worklight_studi.html

install ADT ...

> get help here ...

http://askubuntu.com/questions/107192/how-can-i-install-eclipse-with-the-adt-android-development-tool-on-ubuntu-11-1

start new project in eclipse...

Open **Eclipse** and right click on **MobileFirst Development Server**, select **New**, choose **Project** and select **MobileFirst Project** from the list and click **Next**.

Enter name of project in the **Name** field and click **Next.** (here let it be , **BuildTest**)

Enter name of app in the **Application name:** field and click **Finish.** (here let it be , **BuildTest**)

Now your new project will be visible among the others and within the eclipse workspace created (let eclipse workspace be **Workspace**)among the folders in your files.

import the sencha project...

in sencha CMD, change directory to your already created sencha app location.(let app name be **BuildNow**), use command

:~/BuildNow $ sencha app build --destination ../Workspace/BuildTest/apps/BuildTest/common/ package

:~/BuildNow $ sencha app build --destination ../Workspace/BuildTest/apps/BuildTest/common/ testing

test app in test device...

before getting into that you have to make some changes to your newly created BuildNow app, for that

> open index.html in Workspace/BuildNow/apps/BuildNow/common/index.html

> add the following script to its <body> and save it,

```
<script src="js/initOptions.js"></script>

<script src="js/main.js"></script>

<script src="js/messages.js"></script>
```

now in eclipse in **BuildNow**, open **apps**, then select **BuildNow**(App), then right click on **application-descriptor.xml** and select open , click on **Add** button select **Android Phones and Tablets**.

this will generate the android build as **BuildNowBuildNowAndroid**.

To run this, right click on it and select **RunAs** > **Android Application.**

If you have connected a test device with its **Developer options** on , and with **USB debugging** enabled, then the app will start to run on your device :)