Web Development

Mobile

DEUCENG
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BootStrap

- An open source toolkit
- The most popular HTML, CSS, and JavaScript framework for developing responsive, **mobile-first websites**

BootStrap 4

- The newest version of [Bootstrap](),

- Support the latest, stable releases of all major browsers and platforms

- Internet Explorer 9 and down is not supported

JQuery

- Lightweight, "write less, do more", JavaScript library

- The purpose is to make it much easier to use JavaScript on website

- Takes a lot of common tasks that

  - require many lines of JavaScript code to accomplish,

  - wraps them into methods that call with **a single line of code**

JQuery

- Simplifies a lot of the complicated things from JavaScript, like AJAX calls & DOM manipulation

- The jQuery library contains

  - HTML/DOM manipulation
  - CSS manipulation
  - HTML event methods
  - Effects and animations
  - AJAX
  - Utilities

JQuery

Many of the biggest companies on the Web use jQuery

- Google

- Microsoft

- IBM

- Netflix

HTTP Get Post

- get() and post() methods are used to request data from the server with an
  - HTTP GET

    or

  - POST request

- **GET** - Requests data from a specified resource
- **POST** - Submits data to be processed to a specified resource

- $.get("test.asp", function(data, status)

JQuery Mobile

HTML5 based user interface system designed to **make responsive web sites** and apps that are accessible on

- all smartphone,

- tablet

- desktop devices

Android Studio

- The official Integrated Development Environment (IDE) for Android app development, based on IntelliJ IDEA

- On top of IntelliJ's powerful code editor and developer tools

- Offers more features that enhance productivity when building Android apps
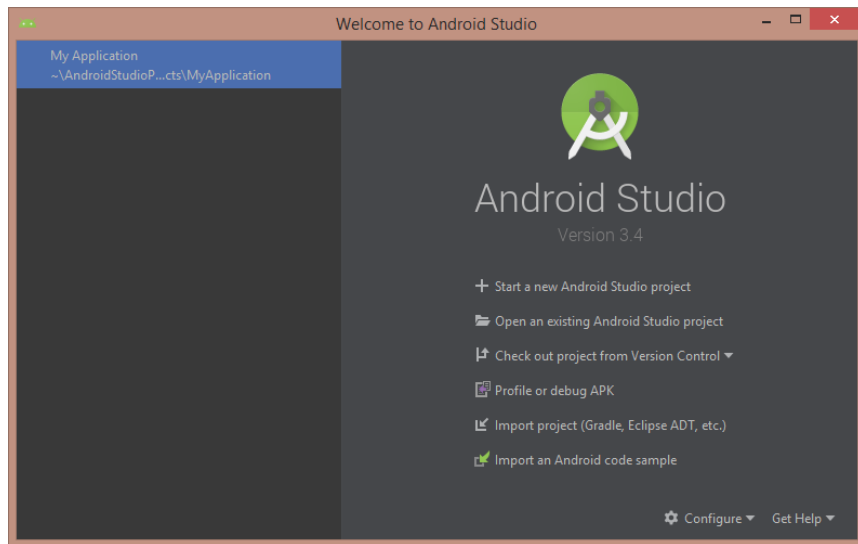
Android Studio

- A fast and feature-rich emulator

- A unified environment where you can develop for all Android devices

- A flexible Gradle-based build system

- Instant Run to push changes to your running app without building a new APK

Android Studio

- Code templates & GitHub integration to help build common app features & import sample code

- Extensive testing tools and frameworks

- Lint tools to catch performance, usability, version compatibility, and other problems

- C++ and NDK support

- Built-in support for Google Cloud Platform, (easy to integrate Google Cloud Messaging & App Engine)

Project

- Contains one or more modules with source code files & resource files

- Types of modules include

    - Android app modules

    - Library modules

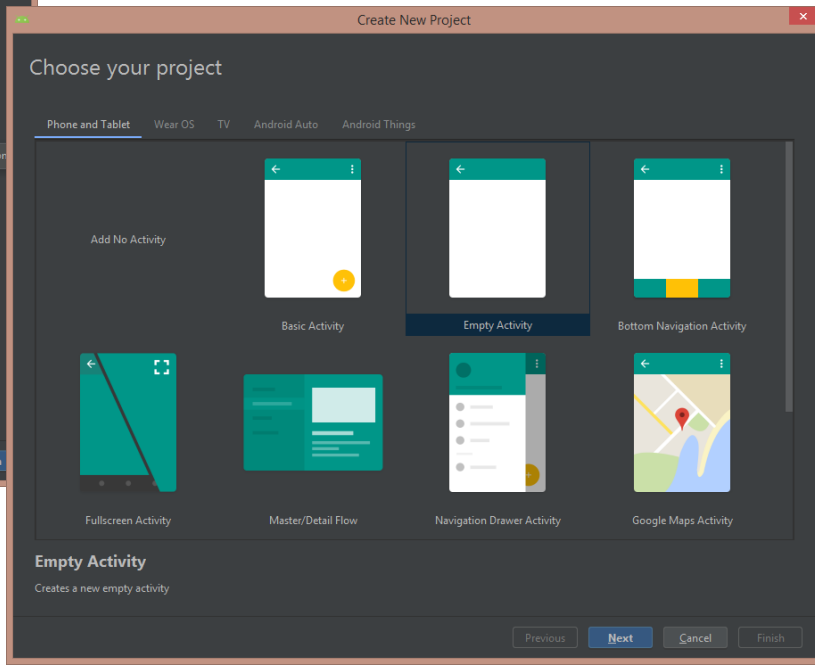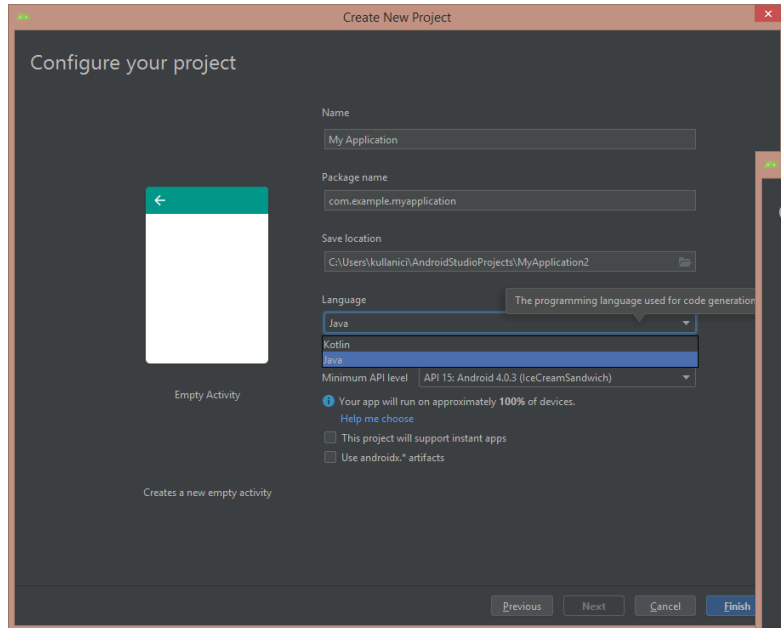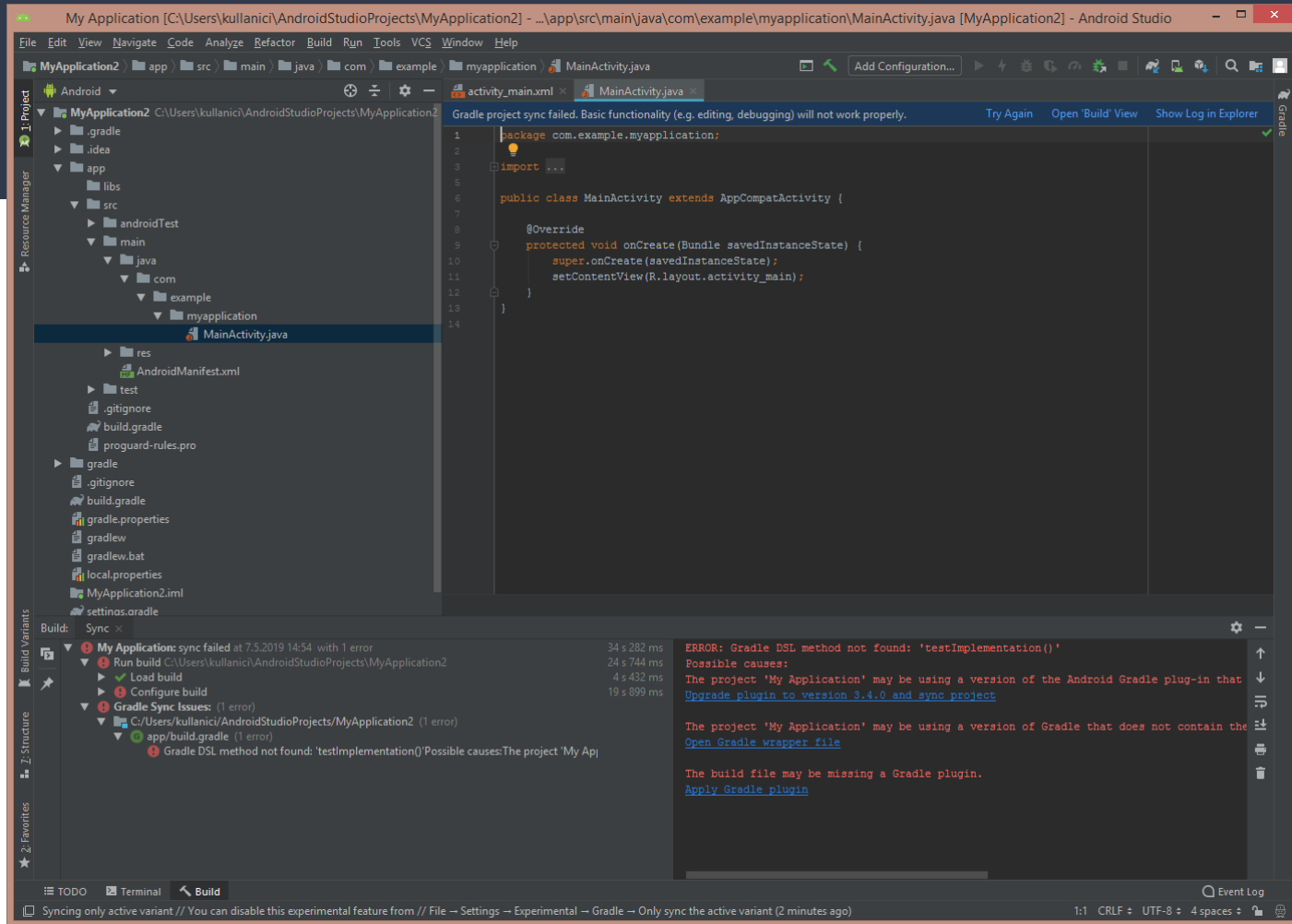   - Google App Engine modules

Module contains

- Manifests Folder

  - Contains the AndroidManifest.xml file

- Java Folder

  - Contains the Java source code files, including JUnit test code

- Res Folder

  - Contains all non-code resources, such as XML layouts, UI strings, and bitmap images

Android

- Language
- Min API Level

- MainActivity.java
- activity_main.xml

References

- https://getbootstrap.com/
- https://www.w3schools.com
- https://jquery.com/
- https://jquerymobile.com/
- https://developer.android.com/studio