

Researching Project IoT Platform using Laravel and Mobile App

‘ Week7 Report ’

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2019-2020

Returning Visitor



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Outline

- ❖ Planning for First Month
- ❖ Planning for Second Month
- ❖ Download and install Flutter sdk Setup on Android Studio
- ❖ Download, install Android Studio and create plugin for flutter sdk.
- ❖ Create project, install SDK and AVD Manager
- ❖ Run flutter and AVD Manager
- ❖ View sample E-Commerce project with Emulator of Android
- ❖ Coding for sample E-Commerce App

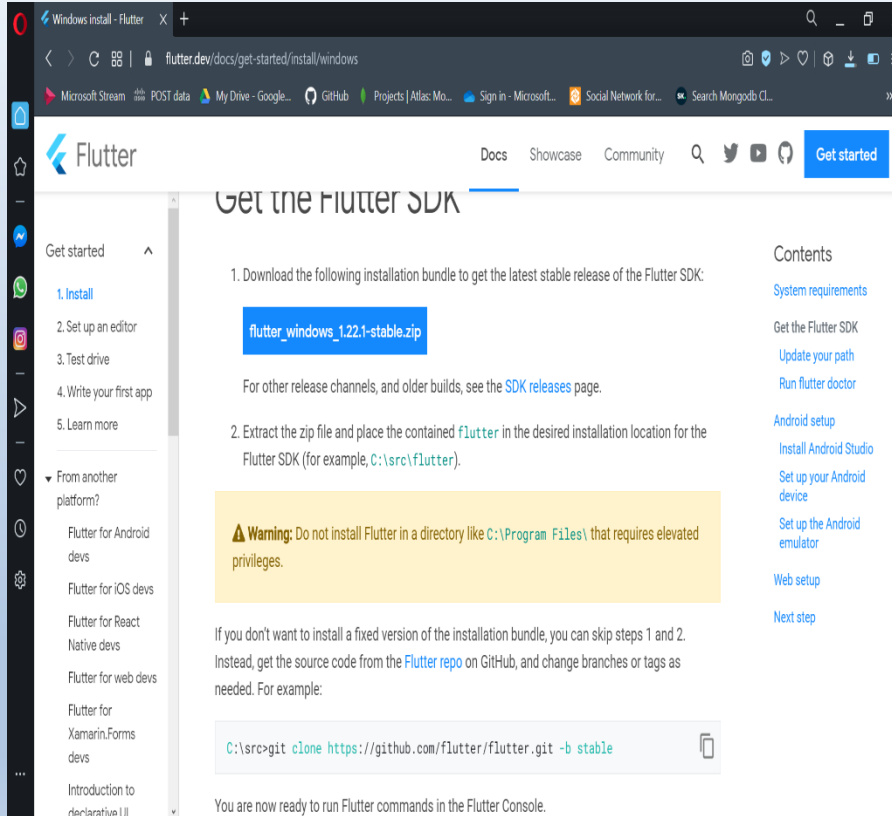
❖ Planning for First Month

Activity (Start on 06.08.2020)	Thursday (Presentation day)	Friday	Monday	Tuesday	Wednesday (Meeting day)
Week 1	Installation MongoDB (Shell and Compass) and connect localhost between Shell and Compass.(Locally)	Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.	Creating MongoDB Atlas account and connect it to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)	Installation Visual Studio Code and connect driver to MongoDB Atlas.(Cloud)	Connecting sample Backend to MongoDB Cluster and storing Products in the Database.
Week 2	Connecting driver to Mongo Shell.(Locally)	Starting to build sample backend connect with or without MongoDB Atlas.	Build creating, editing and deleting Products on server.	Transmitting and fetching data to/from the Database.	Creating Login and Signup. (Email and password)
Week 3	Learning template Bootstrap 4	Install wampserver and Laravel	Run Laravel server with MySQL(Database)	Choose free template Bootstrap for Front-End & Backend	Installation Laravel Module for Backend and Front-End
Week 4	Starting to build backend for project. & Creating Login and Signup.	User management: <ul style="list-style-type: none"> • Create new user • Reset user password • Delete and edit user 	Manage Info: <ul style="list-style-type: none"> • Logo • Name • Contact info • Map • Social 	Manage new category: <ul style="list-style-type: none"> • Create new category • Edit and delete exiting categories. 	Manage news: <ul style="list-style-type: none"> • Post news • Edit news • Delete news

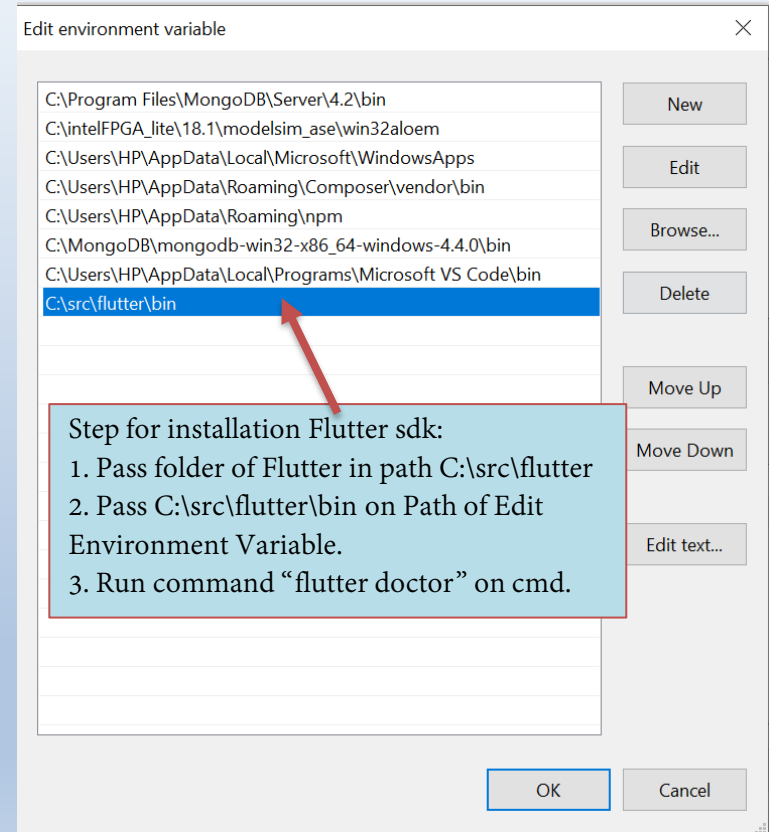
❖ Planning for Second Month

Activity (Start on 06.08.2020)	Thursday (Presentation day)	Friday	Monday	Tuesday	Wednesday (Meeting day)
Week 5	Create Dashboard	Create Dashboard	Manage Calculate: <ul style="list-style-type: none"> • Addition • Subtraction • Multiplication • Division 	Write API & Read API	Write API & Read API
Week 6	Connect to ESP8266 or NodeMcu & fetch data from Arduino	Get data from Sensors and Calculate.	Show data on Dashboard	Connect Backend to Front-End	Front-End fetch data from Backend
Week 7	Choose Flutter or React Native for build Mobile App.	Learning Flutter or React native	Start build sample project	Create Horizontal list view & build recent products grid view.	Manage Info: <ul style="list-style-type: none"> • Product details • Home page Ui modification • Shopping cart & list page • User login & Register • Contact info
Week 8	Creating Users, brand and category on database & Adding products to the database.	Auto complete search for categories and brands & Uploading Images to firebase.	Login and signup screen redesign & Google sign in for IOS and Android .	Firebase Auth using provider package & Dashboard UI/UX and Database product modeling.	Load products from firebase part & loading products from database.

❖ Download and install Flutter sdk Setup on Android Studio



The screenshot shows the Flutter website's 'Get the Flutter SDK' page. The page is divided into two main sections: 'Get started' and 'Contents'. The 'Get started' section contains a list of steps: 1. Install, 2. Set up an editor, 3. Test drive, 4. Write your first app, and 5. Learn more. The 'Contents' section lists various topics: System requirements, Get the Flutter SDK, Update your path, Run flutter doctor, Android setup, Install Android Studio, Set up your Android device, Set up the Android emulator, Web setup, and Next step. The 'Get started' section also includes a warning: 'Warning: Do not install Flutter in a directory like C:\Program Files\ that requires elevated privileges.' and a code block showing the command to clone the Flutter repository: `C:\src>git clone https://github.com/flutter/flutter.git -b stable`.

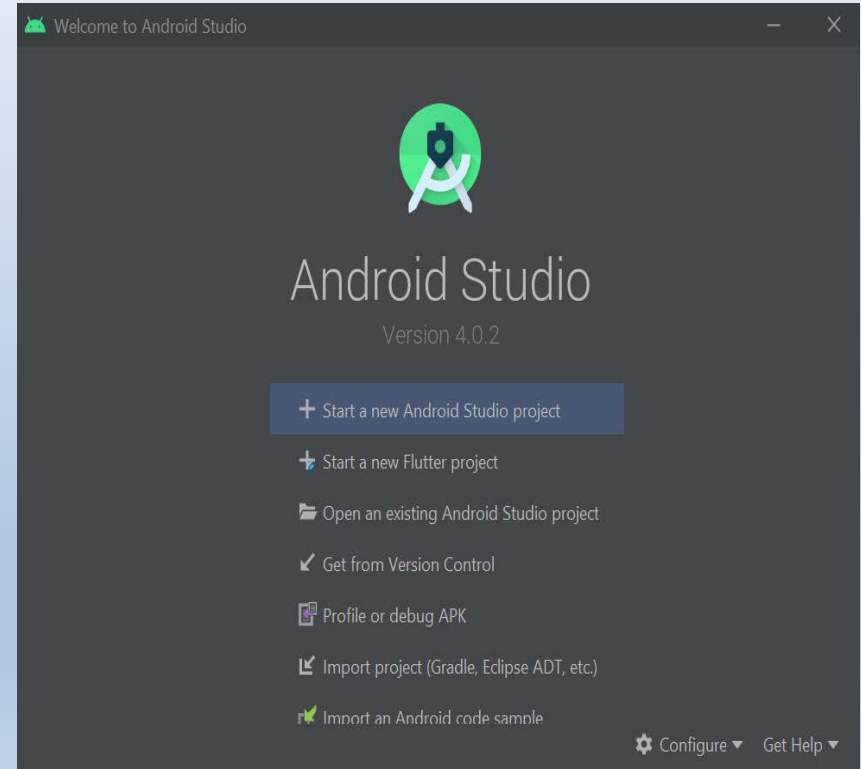
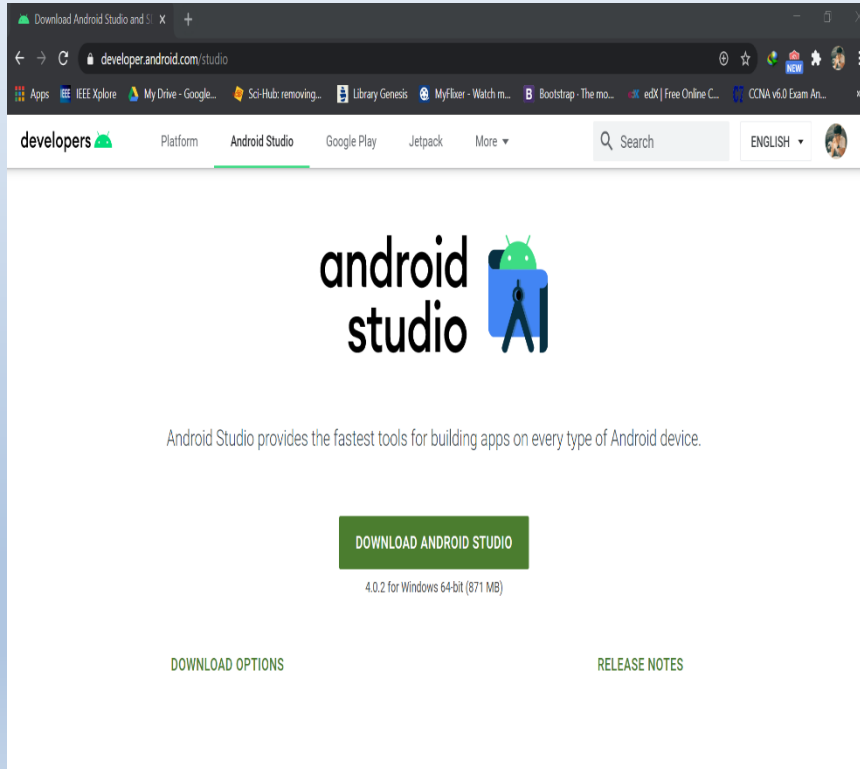


The screenshot shows the 'Edit environment variable' dialog box. The 'Path' variable is selected, and the list of paths includes: C:\Program Files\MongoDB\Server\4.2\bin, C:\intelFPGA_lite\18.1\modelsim_ase\win32aloem, C:\Users\HP\AppData\Local\Microsoft\WindowsApps, C:\Users\HP\AppData\Roaming\Composer\vendor\bin, C:\Users\HP\AppData\Roaming\npm, C:\MongoDB\mongodb-win32-x86_64-windows-4.4.0\bin, C:\Users\HP\AppData\Local\Programs\Microsoft VS Code\bin, and C:\src\flutter\bin. A red arrow points to the 'C:\src\flutter\bin' path. A text box overlay on the right side of the dialog box contains the following instructions: 'Step for installation Flutter sdk: 1. Pass folder of Flutter in path C:\src\flutter 2. Pass C:\src\flutter\bin on Path of Edit Environment Variable. 3. Run command "flutter doctor" on cmd.'

❖ Download, install Android Studio and create plugin for flutter sdk.

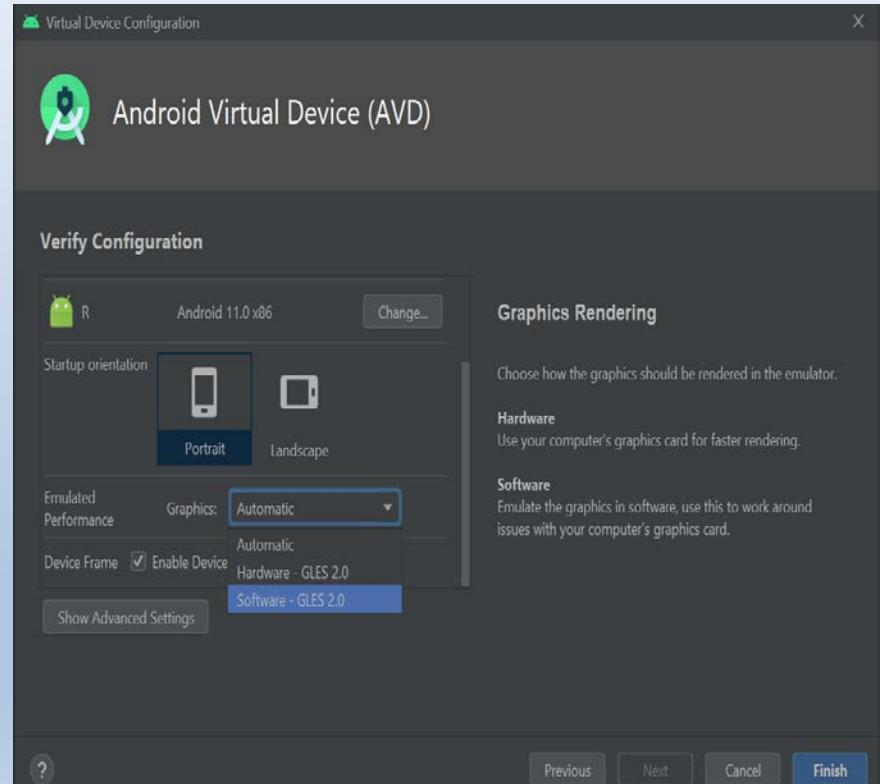
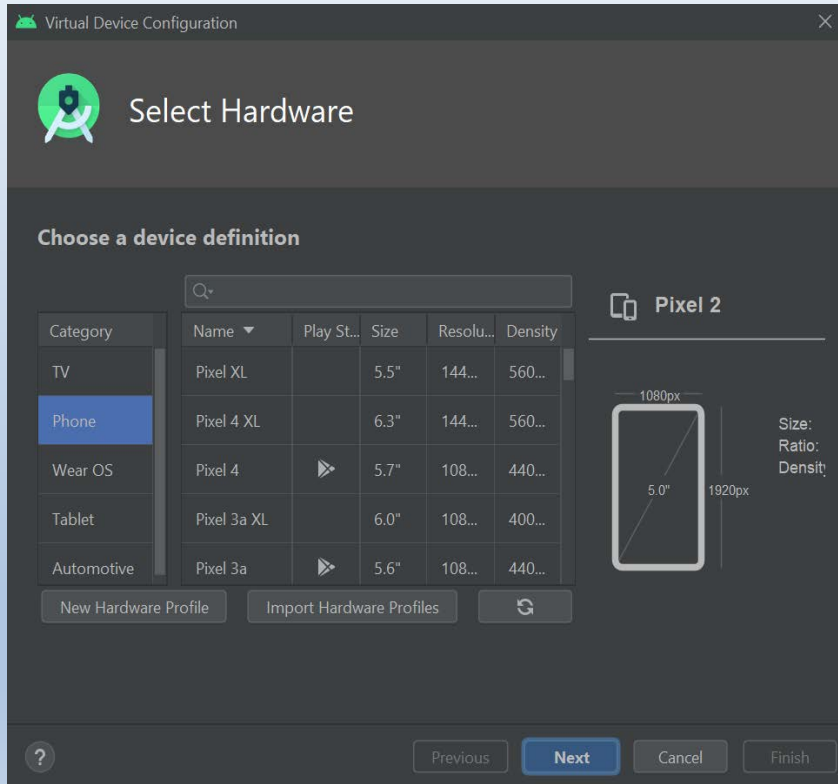
Step for create plugin flutter :

➤ click on configure->plugins->search flutter and install it->restart.

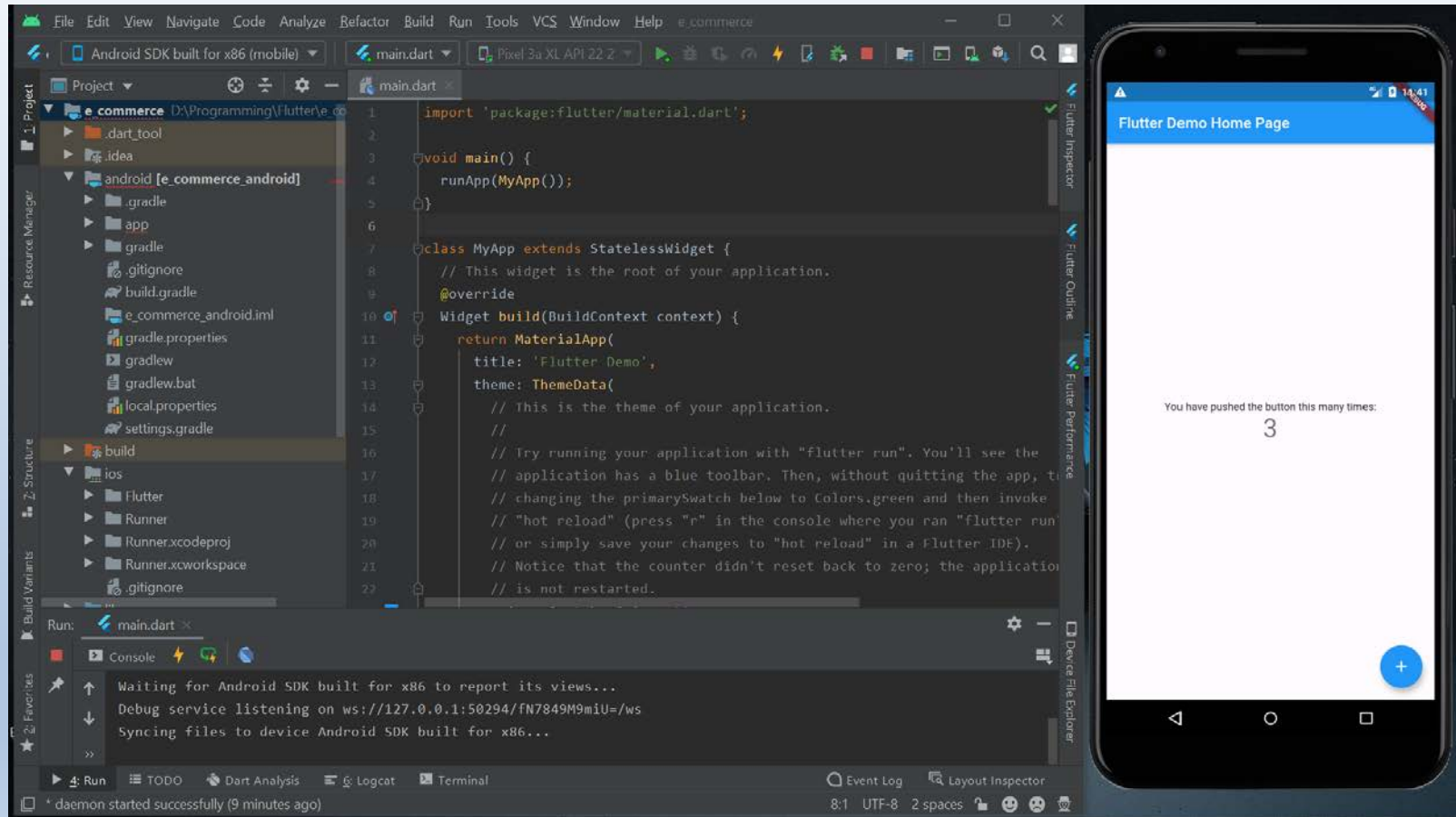


❖ Create project, install SDK and AVD Manager

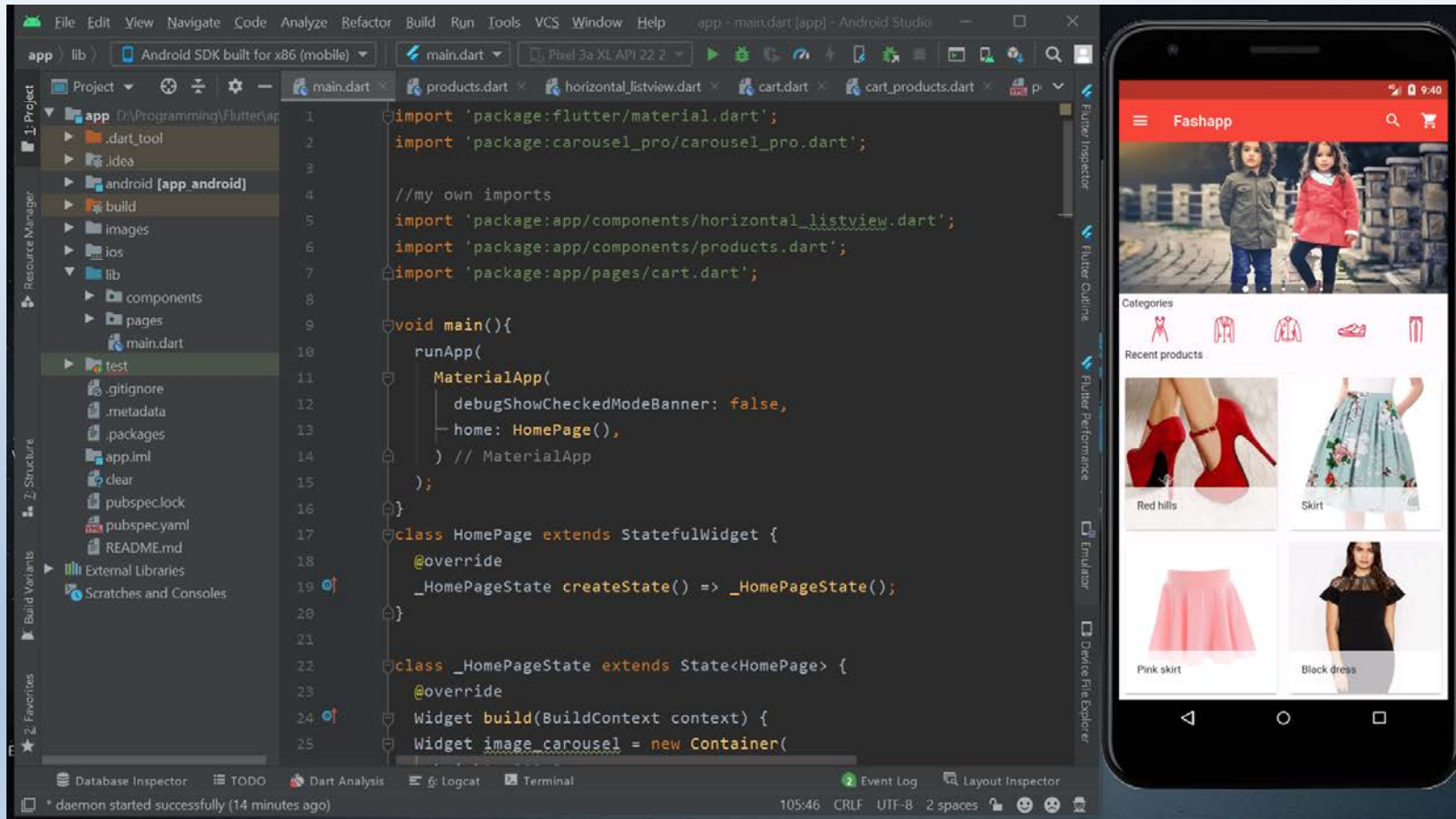
- Install SDK Manager.
- Click AVD Manager->Create Virtual Device->choose version of AVD and download it->show advance setting->software->finish



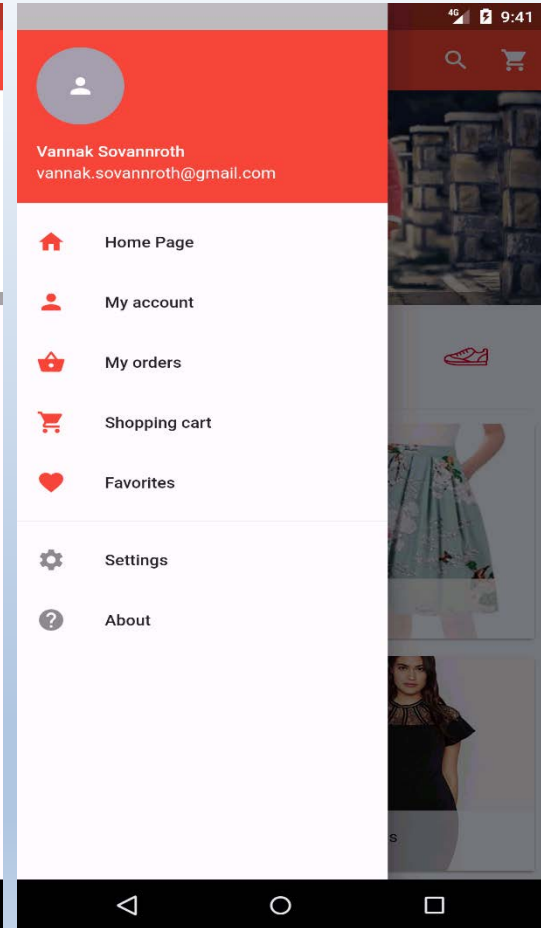
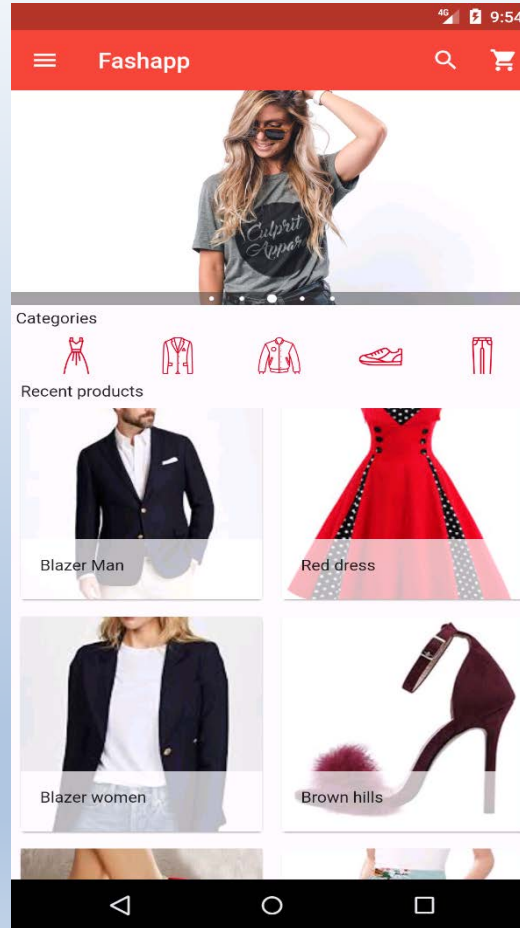
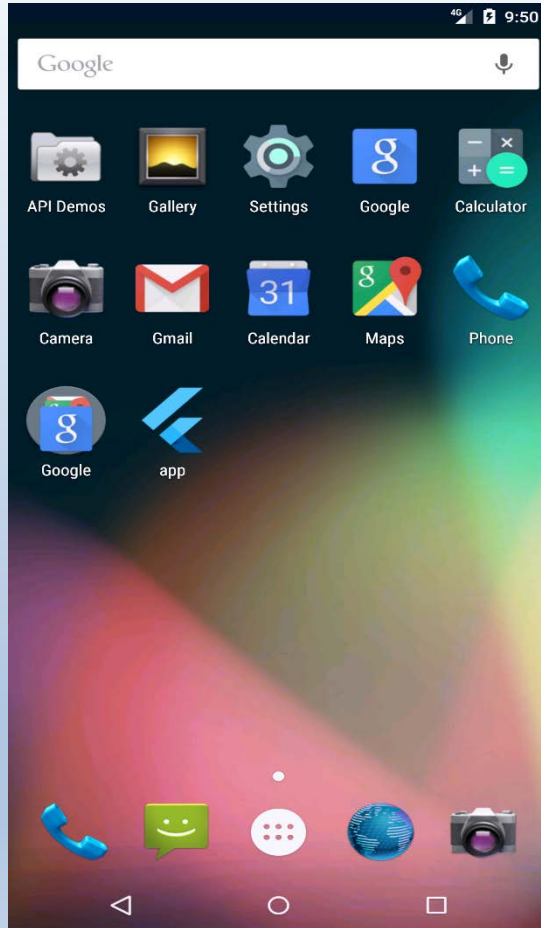
❖ Run flutter and AVD Manager



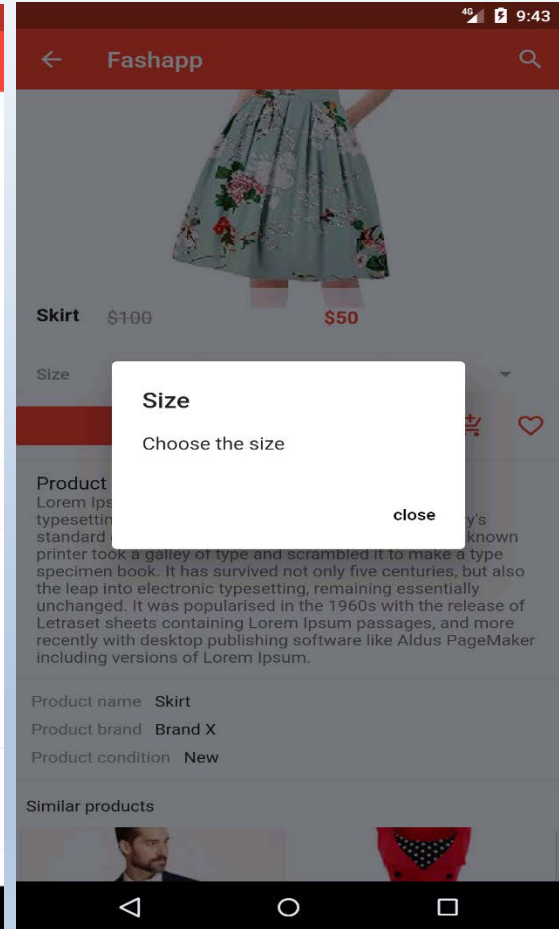
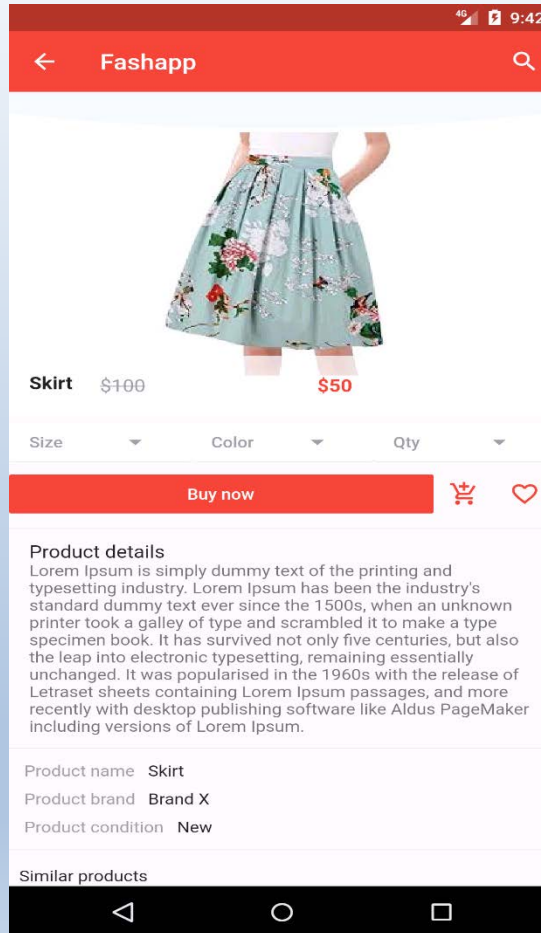
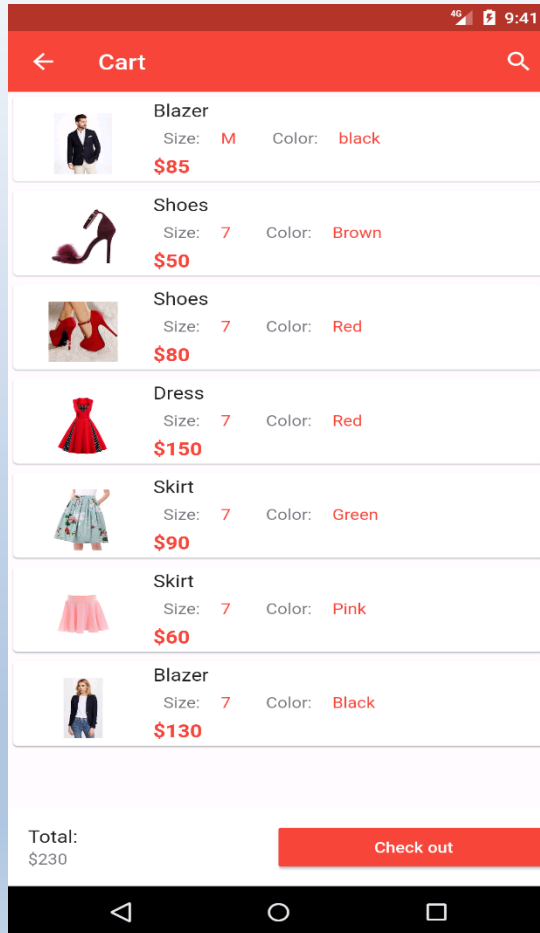
❖ View sample E-Commerce project with Emulator of Android



❖ How to view Charts from JavaScript



❖ How to view Charts from JavaScript



❖ Coding for sample E-Commerce App

<https://github.com/Chanthan89/Smart-Irrigation/tree/master/Weekly%20Presentation/October/VANNAK%20Sovannroth/e-commerce>

❖ References

<https://youtu.be/Z2ugnpCQuyw>

<https://youtu.be/8YIJ9RjdpkA>

https://www.youtube.com/watch?v=Dy_zBF6rJFc&list=PLmnT6naTGy2SC82FMSCrvZNogg5T1H7iF

**Thank
You!**