# ITC-InfoTech Intern Project Report

**By Debashis Karmakar** 

**Project Title:** ECom-App

Project Duration: 14<sup>th</sup> June 2018 – 29<sup>th</sup> June 2018

Aim: To implement a simple E-commerce Application on Android mobile system

## Scope:

- Create, Edit, Delete from a catalogue of items that can be purchased by various Users.
- Secure Login mechanism with, an 'admin' account with the ability to create, edit, delete user profiles.
- Ability of User to purchase items in the Catalogue, buy adding them to a 'Cart' and subsequently checking out.
- Ability to View purchasing history for a particular User.
- Administrative services to perform CRUD operations on the Database.

# **Technology Used:**

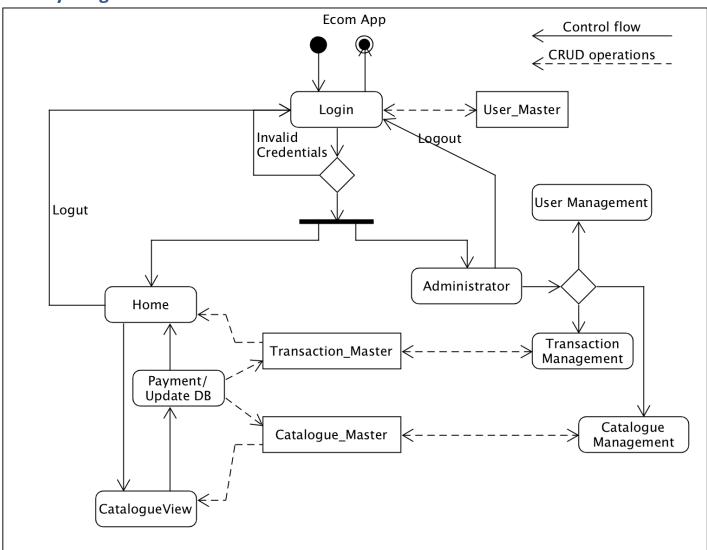
- · Android-Java on Android studio.
- SQLite Database supported by Android.

# **Components:**

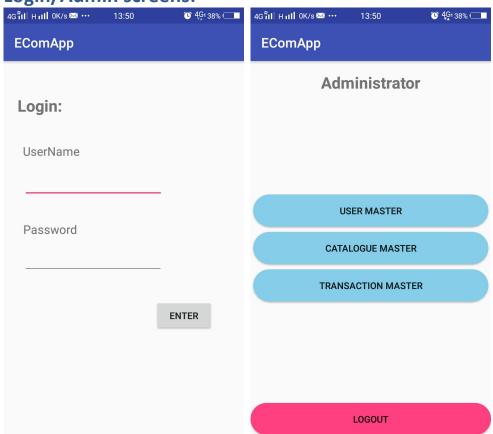
- DataBase(SQLite) EcomAppDB.db
  - User\_Master Table : Columns [ u\_id, u\_name, u\_pass, RegDate]
  - Catalogue\_Master Table : Columns [c\_id, c\_type(or category), ProductName, Price, Stock]
  - Transaction\_Master Table : Columns [t\_id, u\_id, c\_id, Amount, Date/Time]
- ❖ Login Module Start activity of App and destination activity on logout.

- Administrator Module:
  - User Management To perform CRUD operations on User\_Master
  - Catalogue Management To Perform CRUD operations on Catalogue\_Master
  - Transaction Management To perform CRUD operations on Transaction\_Master
- ❖ Home Module Shows Purchase history of the logged in user.
- CatalogueView Module Shows all items available for purchase, Add items to a Cart and buy them.

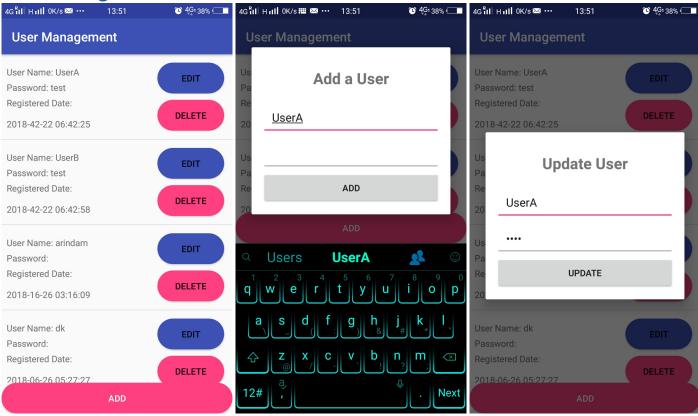
## **Activity Diagram:**



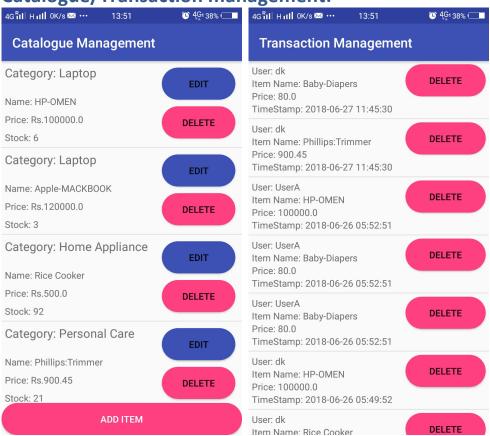
Login/Admin screens:



**User Management Module:** 



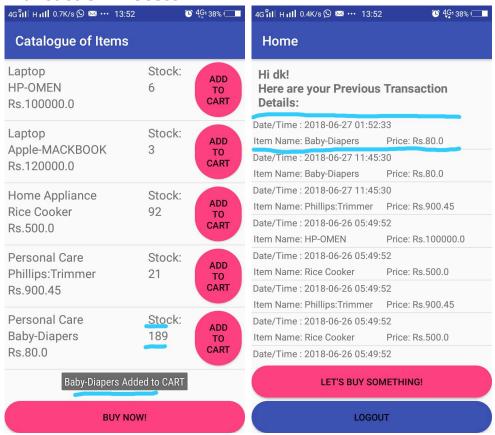
**Catalogue/Transaction management:** 



Home/Catalogue

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Home	Catalogue of Items
Hi dk! Here are your Previous Transaction Details:	Laptop Stock: HP-OMEN 6 TO CART
Date/Time: 2018-06-27 11:45:30         Item Name: Baby-Diapers       Price: Rs.80.0         Date/Time: 2018-06-27 11:45:30         Item Name: Phillips:Trimmer       Price: Rs.900.45	Laptop Stock: Apple-MACKBOOK 3  Rs.120000.0
Date/Time: 2018-06-26 05:49:52         Item Name: HP-OMEN       Price: Rs.100000.0         Date/Time: 2018-06-26 05:49:52         Item Name: Rice Cooker       Price: Rs.500.0	Home Appliance Stock: Rice Cooker 92  Rs.500.0
Date/Time : 2018-06-26 05:49:52  Item Name: Phillips:Trimmer	Personal Care Stock: Phillips:Trimmer 21 TO CART
Date/Time : 2018-06-26 05:49:52  Item Name: Phillips:Trimmer	Personal Care Baby-Diapers Rs.80.0  Stock:  ADD TO CART
LET'S BUY SOMETHING!	
LOGOUT	BUY NOW!

### **Transaction Process:**



## **Limitations:**

- Local Database is maintained with in the User's handset.
- Database version upgrade options limited
- Simple User Interface

### **Conclusion:**

Simple application that meets the requirements has been implemented.

# **Further Improvement:**

- ❖ Attempt to apply Block Chain technology on transaction details.
- ❖ Transfer local DB to Web Server, with read only access on the local DB and Administrator Module as a web application.
- ❖ Improve User Interface by implementing tabbed/menu driven system.