

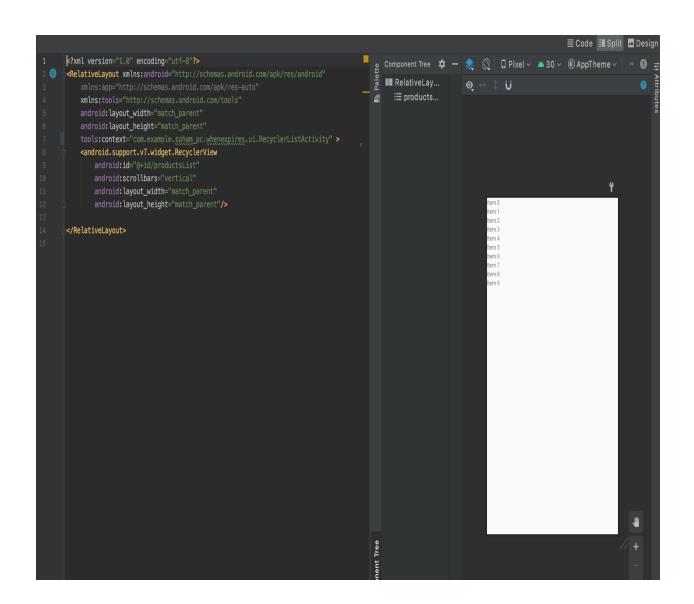
## **Department of Information Technology** Academic -2021-22

Assignment No: 02
<b>Subject: Mobile Application Development</b>
Roll No.: 18IT1050
Name of Student: Soham Salkar
Class/Batch: A/A2
<b>Date of Performance:</b>
<b>Date of Submission:</b>
Grade:
Signature:

Vidyalekhan 18 371050 MAPZ 01 squire is a very light version of sal supporting reatures of squ. Basically it has been serelapmed for small devices like mobile , tables etc. solite is a third party open-sourced and in-process authorse SCL server compact is from microsoff and is a stripped down version or sal server. two composing datebase engine ser is a query language sqlike is an embeddable relational database management syclem. . Sqlike also duesn't require appeals database server or anyming. It is just a direct filesystem ongine net sal syntex TREMPICALLY, seline is not open-source bottware but rather public domain

```
package com.example.soham_pc.whenexpires.database.dao;
       import android.arch.lifecycle.LiveData;
       import android.arch.persistence.room.Dao;
       import android.arch.persistence.room.Delete;
       import android.arch.persistence.room.Insert;
       import android.arch.persistence.room.OnConflictStrategy;
       import android.arch.persistence.room.Query;
       import com.example.soham_pc.whenexpires.database.entity.ProductEntity;
       import java.util.List;
       @_0
       public interface ProductDao {
           @Query("select * from products_table group by ` product_barcode`" +
21 0
           LiveData<List<ProductEntity>> getAllProducts();
           @Insert(onConflict = OnConflictStrategy.REPLACE)
24 0
           long insertProduct(ProductEntity product);
           @Query("SELECT COUNT(*) from products_table")
           int countProducts();
           @Query("SELECT COUNT( 'product_barcode') from products_table WHERE ` product_barcode`=:barcode")
           int getProductCount(String barcode);
           @Delete
34 0
           int delete(ProductEntity productModel);
```

```
package com.example.soham_pc.whenexpires.ui;
public class RecyclerListActivity extends AppCompatActivity {
        List<ProductEntity> product_models;
        private ProductViewModel productViewModel;
        private RecyclerView mRecyclerView;
        private ProductsRecyclerAdapter mAdapter;
        private RecyclerView.LayoutManager mLayoutManager;
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_recycler_list);
            mRecyclerView = findViewById(R.id.productsList);
            mRecyclerView.setHasFixedSize(true);
            mLayoutManager = new LinearLayoutManager( context: this);
             mRecyclerView.setLayoutManager(mLayoutManager);
             productViewModel = ViewModelProviders.of( activity: this).get(ProductViewModel.class);
            productViewModel.getItems().observe( owner: RecyclerListActivity.this, (products) → {
                    if (!products.isEmpty()) {
                        product_models = products;
                        mAdapter = new ProductsRecyclerAdapter(products, getApplicationContext());
                        mRecyclerView.addItemDecoration(new SimpleDecorator(getApplicationContext()));
                        mRecyclerView.setAdapter(mAdapter);
                        processNotificationDate(product_models);
             mRecyclerView.addOnItemTouchListener(new RecyclerTouchListener(getApplicationContext(), mRecyclerView, new RecyclerTouchListener.ClickListener() {
```



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