Assignment2

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# Screenshots

### Register and Login Screen

A screen shot of a login form

Description automatically generated A screenshot of a login screen

Description automatically generated

### Home Activity with Drawer Layout

A logo with green leaves

Description automatically generated A screenshot of a phone

Description automatically generated

### Add Stock Fragment

A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated

### Sale Fragment

A screenshot of a login form

Description automatically generated A screenshot of a phone

Description automatically generated

### Purchase Fragment

A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated

### Search Fragment

A screenshot of a computer

Description automatically generated A screenshot of a search box

Description automatically generated

### List Fragment

A screenshot of a phone

Description automatically generated

## Database Inspector

A screenshot of a computer

Description automatically generated

# Source Code

### HomeActivity.java

package com.example.slgrocery;  
  
import android.annotation.SuppressLint;  
import android.content.Intent;  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.view.MenuItem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.ActionBarDrawerToggle;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.Fragment;  
import androidx.fragment.app.FragmentTransaction;  
  
import com.example.slgrocery.Fragments.AddStockFragment;  
import com.example.slgrocery.Fragments.ListFragment;  
import com.example.slgrocery.Fragments.MainFragment;  
import com.example.slgrocery.Fragments.PurchaseFragment;  
import com.example.slgrocery.Fragments.SaleFragment;  
import com.example.slgrocery.Fragments.SearchFragment;  
import com.example.slgrocery.databinding.ActivityHomeBinding;  
import com.google.android.material.navigation.NavigationView;  
  
public class HomeActivity extends AppCompatActivity {  
 ActivityHomeBinding activityHomeBinding;  
 ActionBarDrawerToggle actionBarDrawerToggle;  
  
 private void Logout() {  
 SharedPreferences sharedPreferences = getSharedPreferences(Settings.*session\_key*, *MODE\_PRIVATE*);  
 sharedPreferences.edit().clear().apply();  
 Intent intent = new Intent(getApplicationContext(), LoginActivity.class);  
 startActivity(intent);  
 }  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 activityHomeBinding = ActivityHomeBinding.*inflate*(getLayoutInflater());  
 setContentView(activityHomeBinding.getRoot());  
 init();  
 }  
  
 @SuppressLint({"ResourceAsColor", "SetTextI18n"})  
 private void init() {  
 activityHomeBinding.homeTopWelcomeMessage.setText("Welcome, " + getUsername());  
 // set default fragment when loading home activity  
 FragmentTransaction fragmentTransaction = getSupportFragmentManager().beginTransaction();  
 Fragment fragment = new MainFragment();  
 fragmentTransaction.replace(activityHomeBinding.homeFrameLayout.getId(), fragment);  
 fragmentTransaction.commit();  
 // set drawer layout toggle  
 actionBarDrawerToggle = new ActionBarDrawerToggle(  
 this,  
 activityHomeBinding.homeDrawerLayout,  
 activityHomeBinding.homeToolbar,  
 R.string.*home\_toolbar\_open*,  
 R.string.*home\_toolbar\_off* );  
 activityHomeBinding.homeDrawerLayout.addDrawerListener(actionBarDrawerToggle);  
 actionBarDrawerToggle.syncState();  
 activityHomeBinding.homeNavigationView.setNavigationItemSelectedListener(new NavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 public boolean onNavigationItemSelected(@NonNull MenuItem item) {  
 activityHomeBinding.homeDrawerLayout.closeDrawers();  
 Fragment fragment = null;  
 FragmentTransaction fragmentTransaction = getSupportFragmentManager().beginTransaction();  
 if (item.getItemId() == R.id.*menu\_add\_stock*) {  
 fragment = new AddStockFragment();  
 } else if (item.getItemId() == R.id.*menu\_sales*) {  
 fragment = new SaleFragment();  
 } else if (item.getItemId() == R.id.*menu\_purchase*) {  
 fragment = new PurchaseFragment();  
 } else if (item.getItemId() == R.id.*menu\_search\_stock*) {  
 fragment = new SearchFragment();  
 } else if (item.getItemId() == R.id.*menu\_list\_stock*) {  
 fragment = new ListFragment();  
 } else if (item.getItemId() == R.id.*menu\_logout*) {  
 Logout();  
 }  
 if (fragment != null) {  
 fragmentTransaction.replace(activityHomeBinding.homeFrameLayout.getId(), fragment);  
 fragmentTransaction.commit();  
 return true;  
 }  
 return false;  
 }  
 });  
 }  
  
 private String getUsername() {  
 SharedPreferences sharedPreferences = getSharedPreferences(Settings.*session\_key*, *MODE\_PRIVATE*);  
 return sharedPreferences.getString(Settings.*session\_username\_key*, null);  
 }  
  
 @Override  
 public void onBackPressed() {  
 }  
  
}

## SignUpActivity

package com.example.slgrocery;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import com.example.slgrocery.Models.User;  
import com.example.slgrocery.Utils.AccountValidation;  
import com.example.slgrocery.Utils.Dialog;  
import com.example.slgrocery.databinding.ActivitySignUpBinding;  
  
import java.util.Objects;  
  
public class SignUpActivity extends AppCompatActivity implements View.OnClickListener {  
 ActivitySignUpBinding activitySignUpBinding;  
 DbHelper dbHelper;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 activitySignUpBinding = ActivitySignUpBinding.*inflate*(getLayoutInflater());  
 setContentView(activitySignUpBinding.getRoot());  
 init();  
 }  
  
 @Override  
 public void onBackPressed() {  
 }  
  
 private void init() {  
 dbHelper = new DbHelper(getApplicationContext());  
 activitySignUpBinding.signUpLoginBtn.setOnClickListener(this);  
 activitySignUpBinding.signUpSignUpBtn.setOnClickListener(this);  
 }  
  
 @Override  
 public void onClick(View v) {  
 // when the login button is clicked  
 if (v.getId() == activitySignUpBinding.signUpSignUpBtn.getId()) {  
 EditText usernameInputController = activitySignUpBinding.signUpInputUsername;  
 String username = usernameInputController.getText().toString();  
 EditText emailInputController = activitySignUpBinding.signUpInputEmail;  
 String email = emailInputController.getText().toString();  
 EditText passwordInputController = activitySignUpBinding.signUpInputPassword;  
 String password = passwordInputController.getText().toString();  
 EditText confirmPasswordController = activitySignUpBinding.signUpInputConfirmPassword;  
 String confirmPassword = confirmPasswordController.getText().toString();  
 // reset errors  
 usernameInputController.setError(null);  
 emailInputController.setError(null);  
 passwordInputController.setError(null);  
 confirmPasswordController.setError(null);  
 // Validate input  
 AccountValidation accountValidation = new AccountValidation(username, email, password);  
 boolean isUsernameValid = accountValidation.usernameValidation();  
 if (!isUsernameValid) {  
 usernameInputController.setError(accountValidation.errorMessage);  
 }  
 boolean isEmailValid = accountValidation.emailValidation();  
 if (!isEmailValid) {  
 emailInputController.setError(accountValidation.errorMessage);  
 }  
 boolean isPasswordValid = accountValidation.passwordValidation();  
 if (!isPasswordValid) {  
 passwordInputController.setError(accountValidation.errorMessage);  
 }  
 boolean isPasswordSame = confirmPassword.equals(password);  
 if (!isPasswordSame) {  
 confirmPasswordController.setError("Confirm password is different than the password");  
 }  
 if (isUsernameValid && isPasswordValid && isEmailValid && isPasswordSame) {  
 User user = new User();  
 user.email = email;  
 user.username = username;  
 user.password = password;  
 String createUserResponse = dbHelper.createUser(user);  
 if (Objects.*equals*(createUserResponse, "DONE")) {  
 Toast.*makeText*(getApplicationContext(), "Create User Successfully", Toast.*LENGTH\_LONG*).show();  
 Intent intent = new Intent(getApplicationContext(), LoginActivity.class);  
 startActivity(intent);  
 } else {  
 Dialog dialog = new Dialog("Create User Failed", createUserResponse, "Try Again");  
 dialog.show(getSupportFragmentManager(), "signUpFailed");  
 }  
 }  
 }  
 // when the login button is clicked  
 else if (v.getId() == activitySignUpBinding.signUpLoginBtn.getId()) {  
 Intent intent = new Intent(this, LoginActivity.class);  
 intent.addFlags(Intent.*FLAG\_ACTIVITY\_NEW\_TASK*);  
 startActivity(intent);  
 }  
 }  
}