

112-1 Android App 期末報告

圖文部APP

科系年班：資管三乙

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一、App 設計需求

1. 登入介面

使用者可在此頁面進行登入、註冊。

2. 側拉選單

包含了書類頁面、文具頁面、會員專區頁面，使用者可透過點選側拉選單的方式進入各個頁面。另外，也可以透過點選下方的登出選項進行登出動作。

3. 選單列

位於頁面的最上方，包含了查詢、傳送訊息、地圖功能，使用者可透過點選 icon 使用該功能。

4. 浮動按鈕

點選此浮動按鈕可進入登入介面進行登入、註冊。

5. 書類頁面

頁面上方會顯示促銷活動資訊，使用者可一目了然目前的最新資訊，而下方則顯示書類商品，另外還設有下拉式選單，可選取要依照價格高低、名稱、上架時間、人氣程度進行排序。

6. 文具頁面

此頁面中顯示文具類的商品資訊，讓使用者可預先知道圖文部有賣那些商品。

7. 會員專區頁面

頁面上方設有個人資訊，中間上方有顯示目前使用者的餘額，當使用者進行完存款、付款時餘額將會自動更新；中間下方設有存款和付款功能，使用者可透過點選圖片 icon 進行此功能。

8. Toast 訊息

在執行完登入、註冊、查詢、傳送訊息、地圖、存款、付款等動作後都會跳出訊息讓使用者更加清楚此動作進行得如何或是否已成功完成。

9. 對話框 Dialogs

在登入介面有增設此功能，當使用者點選註冊時，會跳出對話框讓使用者在此進行註冊動作；而會員專區介面也設有此功能，當點選存款與付款的圖片

按鈕時，也會跳出對話框讓使用者在此進行動作。

10. 訊息通知功能

當點選側拉選單中的登出選項時，手機會跳出訊息通知提醒使用者已成功登出。

11. 資料儲存功能

我們在登入功能中加入了資料儲存功能，讓使用者所註冊的帳號可以放在此處，在下次登入時能夠輸入之前所註冊的帳號並成功登入。

二、功能示意圖

1. 登入



點選浮動按鈕

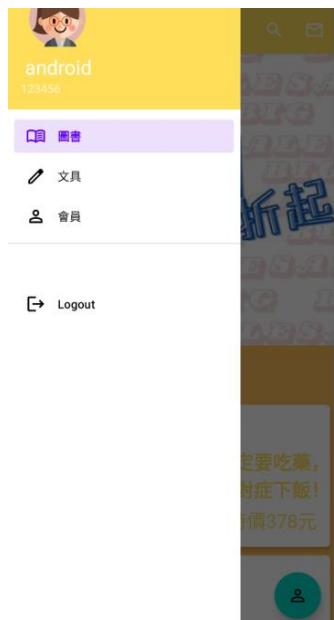
進入登入頁面



輸入完帳號密碼後按下確認

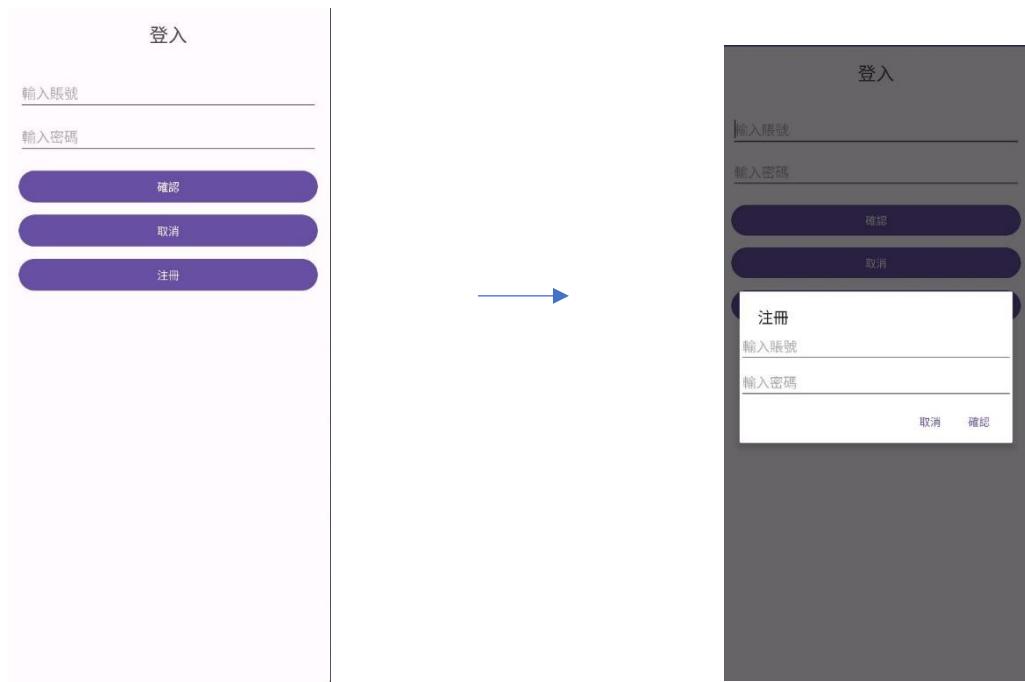


將會跳入首頁



側拉式選單上方的個人資訊將會跟著變動

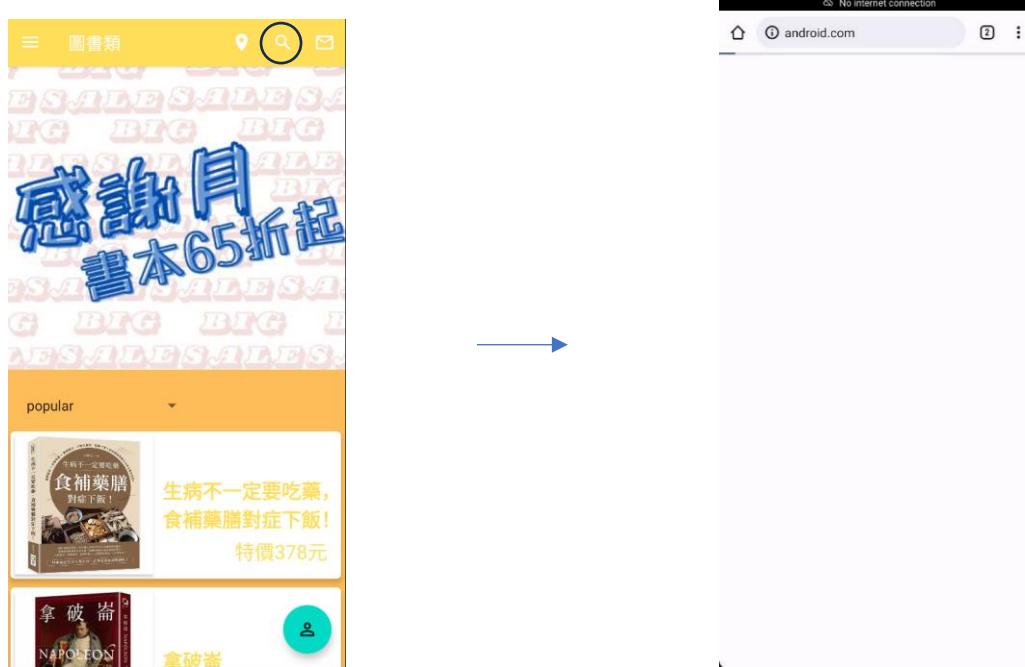
2. 建立個人資料



點選註冊後

就可以註冊帳號密碼

3. 上網查詢



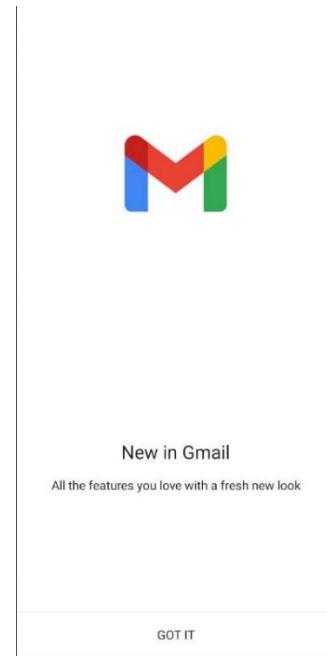
點選搜尋 icon

進入搜尋頁面

4. 傳送訊息



點選信件 icon

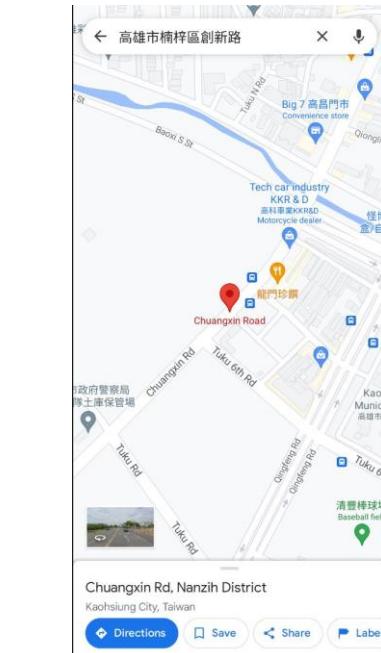


進入 Gmail 頁面

5. 顯示地理位置

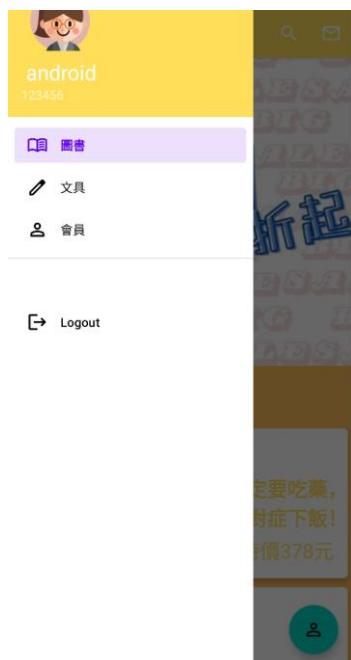


點選定位 icon



進入 GoogleMap

6. 促銷活動資訊



點選側拉選單進入圖書頁面



活動資訊位於最上方

7. 下拉式選單



點選其中一個



8. 儲值功能



點選存款 icon



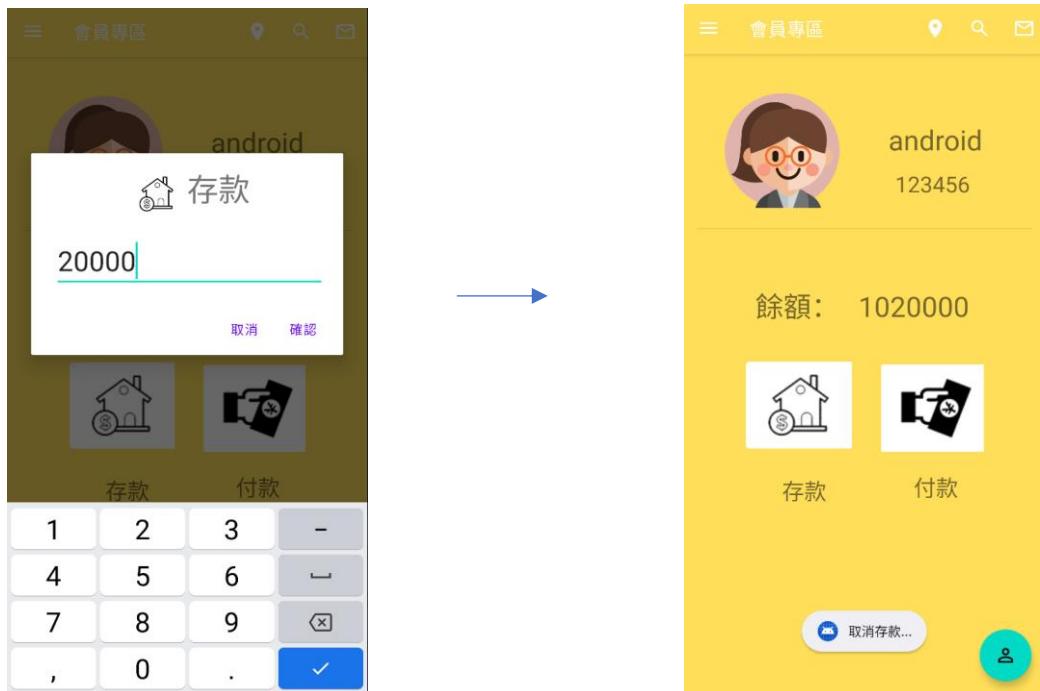
跳出 Dialogs



輸入金額



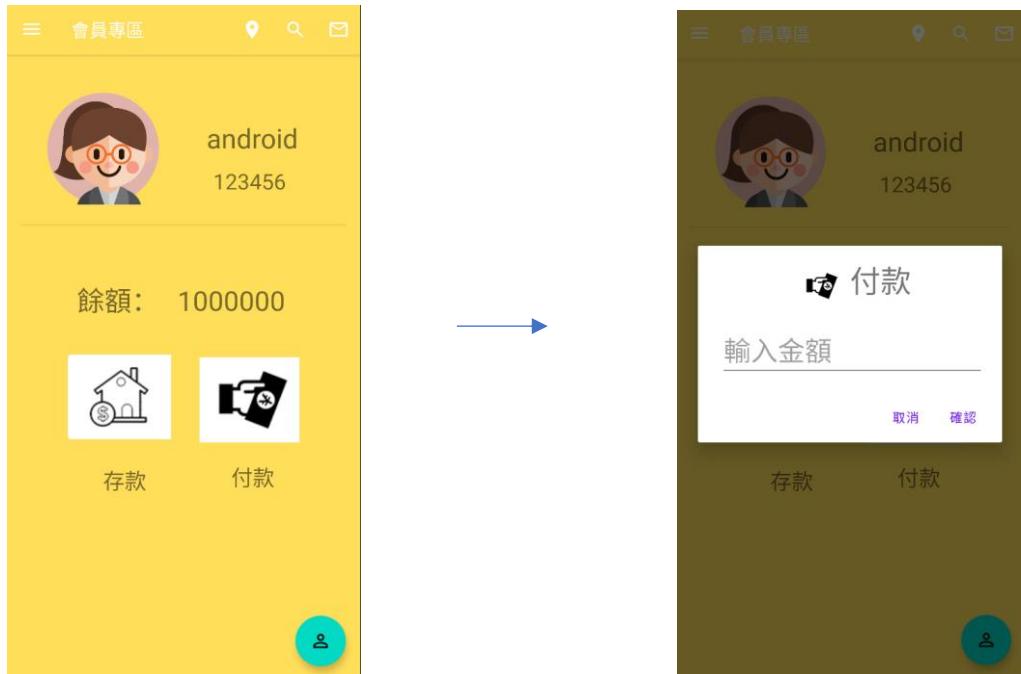
按下確認後跳出 Toast



按下取消後

也會跳出 Toast

9. 付款功能



點選付款 icon

跳出 Dialogs



輸入金額



按下確認後跳出 Toast

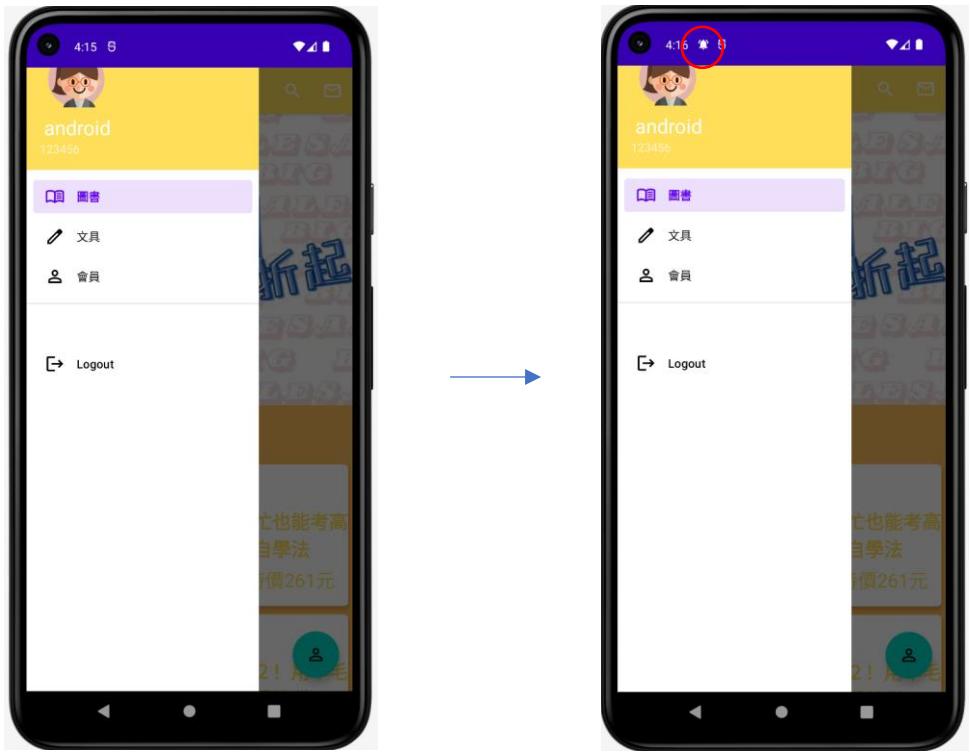


按下取消後



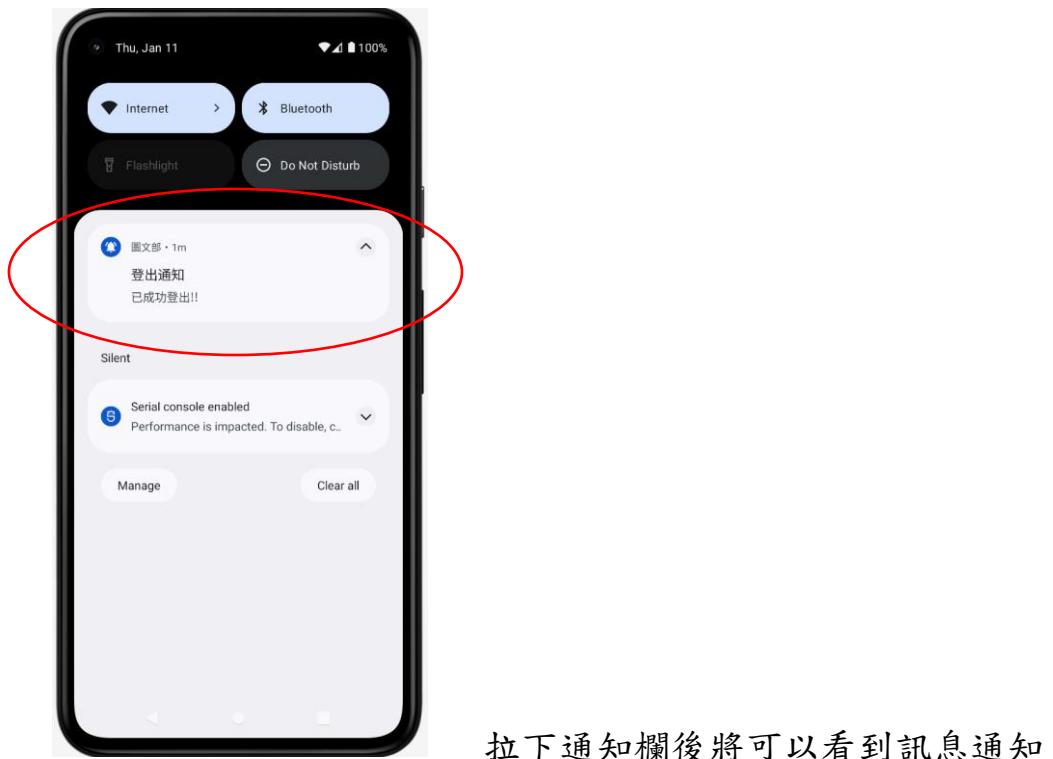
也會跳出 Toast

10. 登出通知訊息



點選 Logout 後

上方會有訊息顯示



拉下通知欄後將可以看到訊息通知

三、功能與相對應的程式片段

1. 登入/註冊個人資料

```
4 usages
private EditText editTextUsername, editTextPassword;
1 usage
private static final String DEFAULT_USERNAME = "android";
1 usage
private static final String DEFAULT_PASSWORD = "123456";

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    editTextUsername = findViewById(R.id.editTextUsername);
    editTextPassword = findViewById(R.id.editTextPassword);
}

1 usage
public void onLoginButtonClick(View view) {
    String enteredUsername = editTextUsername.getText().toString();
    String enteredPassword = editTextPassword.getText().toString();

    if (isValidCredentials(enteredUsername, enteredPassword)) {
        Intent intent = new Intent( packageContext: this, LoginActivity.class);
        startActivity(intent);
    } else {
        showAlertAndClear( title: "錯誤", message: "帳號或密碼錯誤");
    }
}

1 usage
private void showAlertAndClear(String title, String message) {
    AlertDialog.Builder builder = new AlertDialog.Builder( context: this);
    builder.setTitle(title);
    builder.setMessage(message);
    builder.setPositiveButton( text: "確定", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            editTextUsername.setText("");
            editTextPassword.setText("");
        }
    });
    AlertDialog dialog = builder.create();
    dialog.show();
}

1 usage
public void onCancelButtonClick(View view) {
    editTextUsername.setText("");
    editTextPassword.setText("");
}
```

```
| public void onRegisterButtonClick(View view) {
|     AlertDialog.Builder builder = new AlertDialog.Builder( context: this);
|     builder.setTitle("註冊");
|
|     LinearLayout layout = new LinearLayout( context: this);
|     layout.setOrientation(LinearLayout.VERTICAL);
|
|     final EditText inputUsername = new EditText( context: this);
|     final EditText inputPassword = new EditText( context: this);
|     inputUsername.setHint("輸入帳號");
|     inputPassword.setHint("輸入密碼");
|
|     layout.addView(inputUsername);
|     layout.addView(inputPassword);
|
|     builder.setView(layout);
|
|     builder.setPositiveButton( text: "確認", new DialogInterface.OnClickListener() {
|         @Override
|         public void onClick(DialogInterface dialog, int which) {
|
|             String newUsername = inputUsername.getText().toString();
|             String newPassword = inputPassword.getText().toString();
|
|         }
|     });
| );
|
|
|         builder.setNegativeButton( text: "取消", new DialogInterface.OnClickListener() {
|             @Override
|             public void onClick(DialogInterface dialog, int which) { dialog.cancel(); }
|         });
|
|         AlertDialog dialog = builder.create();
|         dialog.show();
|     }
|
|     1 usage
|     private boolean isValidCredentials(String username, String password) {
|
|         return username.equals(DEFAULT_USERNAME) && password.equals(DEFAULT_PASSWORD);
|     }
|
|     no usages
|     private void showAlert(String title, String message) {
|         AlertDialog.Builder builder = new AlertDialog.Builder( context: this);
|         builder.setTitle(title);
|         builder.setMessage(message);
|         builder.setPositiveButton( text: "確定", listener: null);
|         AlertDialog dialog = builder.create();
|         dialog.show();
|     }
| }
```

2. 上網查詢

```
@Override  
public boolean onOptionsItemSelected(MenuItem item) {  
    int id = item.getItemId();  
  
    // 使用 if 语句处理菜单项点击事件  
    if (id == R.id.action_search) {  
        Uri webpage = Uri.parse("uriString: "https://www.android.com");  
        Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);  
        startActivity(webIntent);  
        Toast.makeText(context: this, text: "Search!!!", Toast.LENGTH_LONG).show();  
        return true;  
    }  
}
```

3. 傳送訊息

```
} else if (id == R.id.action_mail) {  
    // 处理发送邮件的逻辑  
    Intent emailIntent = new Intent(Intent.ACTION_SEND);  
    // The intent does not have a URI, so declare the "text/plain" MIME type  
    emailIntent.setType("text/plain");  
    emailIntent.putExtra(Intent.EXTRA_EMAIL, new String[]{"jan@example.com"}); // recipients  
    emailIntent.putExtra(Intent.EXTRA_SUBJECT, value: "Email subject");  
    emailIntent.putExtra(Intent.EXTRA_TEXT, value: "Email message text");  
    emailIntent.putExtra(Intent.EXTRA_STREAM, Uri.parse("content://path/to/email/attachment"));  
    // You can also attach multiple items by passing an ArrayList of Uris  
    startActivity(emailIntent);  
    Toast.makeText(context: this, text: ">>>Mail", Toast.LENGTH_LONG).show();  
    return true;  
}  
}
```

4. 顯示地理位置

```
} else if(id == R.id.action_goolgeimap){  
    //MAP point based on address  
    Uri location=Uri.parse("uriString: "geo:0,0?q=高雄市楠梓區創新路");  
    //Or map point based on latitude/longitude  
    //Uri location = Uri.parse("geo:37.422219,-122.083464?z=14");//z param is zoom level  
    Intent mapIntent=new Intent(Intent.ACTION_VIEW,location);  
    startActivity(mapIntent);  
    return true;  
}  
}
```

5. 促銷活動資訊

```
<ImageView  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:scaleType="centerCrop"  
    android:src="@drawable/sale" />
```

6. 下拉式選單

```
// Find the Spinner in your layout
Spinner spinner = root.findViewById(R.id.spinner);

// Create an ArrayAdapter using the string array and a default spinner layout
ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(
    requireContext(),
    R.array.spinner, // Create an array resource in your res/values/strings.xml
    android.R.layout.simple_spinner_item
);

// Specify the layout to use when the list of choices appears
adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);

// Apply the adapter to the spinner
spinner.setAdapter(adapter);
```

7. 儲值功能

```
public class TopUp extends DialogFragment {

    @Override
    public Dialog onCreateDialog(Bundle savedInstanceState) {
        AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
        // Get the layout inflator
        LayoutInflator inflater = requireActivity().getLayoutInflator();

        // Inflate and set the layout for the dialog
        // Pass null as the parent view because its going in the dialog layout
        builder.setView(inflater.inflate(R.layout.top_up, root: null))
            // Add action buttons
            .setPositiveButton("確認", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                    // sign in the user ...
                    Toast.makeText(getActivity(), text: "成功存入...", Toast.LENGTH_LONG).show();
                }
            })
            .setNegativeButton("取消", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    TopUp.this.getDialog().cancel();
                    Toast.makeText(getActivity(), text: "取消存款...", Toast.LENGTH_LONG).show();
                }
            });
        return builder.create();
    }
}
```

8. 付款功能

```
public class PayMent extends DialogFragment {
    @Override
    public Dialog onCreateDialog(Bundle savedInstanceState) {
        AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
        // Get the layout inflater
        LayoutInflater inflater = requireActivity().getLayoutInflater();
        // Inflate and set the layout for the dialog
        // Pass null as the parent view because its going in the dialog layout
        builder.setView(inflater.inflate(R.layout.payment, root: null))
            // Add action buttons
            .setPositiveButton("確認", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                    // sign in the user ...
                    Toast.makeText(getActivity(), text: "成功付款...", Toast.LENGTH_LONG).show();
                }
            })
            .setNegativeButton("取消", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    PayMent.this.getDialog().cancel();
                    Toast.makeText(getActivity(), text: "取消付款...", Toast.LENGTH_LONG).show();
                }
            });
        return builder.create();
    }
}
```

9. 通知訊息

```
private void showNotification() {
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
        NotificationChannel channel = new NotificationChannel(id: "channel_id", name: "Channel Name",
            NotificationManager.IMPORTANCE_DEFAULT);
        NotificationManager notificationManager = getSystemService(NotificationManager.class);
        notificationManager.createNotificationChannel(channel);
    }
    NotificationCompat.Builder builder = new NotificationCompat.Builder(context: this, channelId: "channel_id")
        .setSmallIcon(R.drawable.baseline_notifications_active_24)
        .setContentTitle("登出通知")
        .setContentText("已成功登出!!")
        .setPriority(NotificationCompat.PRIORITY_DEFAULT);
    NotificationManagerCompat notificationManager = NotificationManagerCompat.from(context: this);
    if (ActivityCompat.checkSelfPermission(context: this, android.Manifest.permission.POST_NOTIFICATIONS)
        != PackageManager.PERMISSION_GRANTED) {
        // TODO: Consider calling
        // ActivityCompat#requestPermissions
        return;
    }
    notificationManager.notify(id: 1, builder.build());
}
1 usage
private void broadcastDatabaseUpdate() {
    Intent intent = new Intent(action: "database_update_event");
    LocalBroadcastManager.getInstance(context: this).sendBroadcast(intent);
}
```

四、參考文獻

1. <https://developer.android.com/guide/topics/ui/dialogs?hl=zh-tw>
2. https://blog.csdn.net/qq_42111674/article/details/118385301

五、附錄

1. MainActivity.java :

```
package com.example.mynavdrawer;

import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.database.Cursor;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.net.Uri;
import android.os.Build;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.fragment.app.DialogFragment;
import androidx.localbroadcastmanager.content.LocalBroadcastManager;
import androidx.navigation.NavController;
```

```
import androidx.navigation.Navigation;
import androidx.navigation.ui.AppBarConfiguration;
import androidx.navigation.ui.NavigationUI;

import com.example.mynavdrawer.databinding.ActivityMainBinding;
import com.google.android.material.navigation.NavigationView;

4 usages
public class MainActivity extends AppCompatActivity {

    3 usages
    private AppBarConfiguration mAppBarConfiguration;
    6 usages
    private ActivityMainBinding binding;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        binding = ActivityMainBinding.inflate(LayoutInflater.from(this));
        setContentView(binding.getRoot());

        setSupportActionBar(binding.appBarMain.toolbar);

        binding.appBarMain.fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) { showLoginDialog(); }
        });
    }

    DrawerLayout drawer = binding.drawerLayout;
    NavigationView navigationView = binding.navView;
    // Passing each menu ID as a set of IDs because each
    // menu should be considered as top level destinations.
    mAppBarConfiguration = new AppBarConfiguration.Builder(
        R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow)
        .setOpenableLayout(drawer)
        .build();
    NavController navController = Navigation.findNavController(activity: this, R.id.nav_host_fragment_content_main);
    NavigationUI.setupActionBarWithNavController(activity: this, navController, mAppBarConfiguration);
    NavigationUI.setupWithNavController(navigationView, navController);

    View header = navigationView.getHeaderView(index: 0);
    TextView navName = (TextView) header.findViewById(R.id.navName);
    TextView navEmail = (TextView) header.findViewById(R.id.navEmail);

    DBHelper dbHelper = new DBHelper(context: this);
    Cursor cursor = dbHelper.getUser();

    if (cursor.getCount() == 0) {
        Toast.makeText(context: this, text: "No Profile Details", Toast.LENGTH_SHORT).show();
    } else {
        while (cursor.moveToNext()) {
```

```
        navName.setText(""+ cursor.getString( columnIndex: 0));
        navEmail.setText(""+ cursor.getString( columnIndex: 1));

    }

}

navigationView.setNavigationItemSelectedListener(new NavigationView.OnNavigationItemSelectedListener() {

    1 usage
    @Override
    public boolean onNavigationItemSelected(@NonNull MenuItem item) {
        int id = item.getItemId();

        if (id == R.id.nav_logout) {
            // 处理Logout点击事件
            showNotification();
            broadcastDatabaseUpdate();
            // 在这里执行登出的逻辑，例如跳转到登录界面
            // 例如：startActivity(new Intent(MainActivity.this, LoginActivity.class));
            return true;
        } else {
            // 使用NavController导航到不同的目的地
            NavController navController = Navigation.findNavController( activity: MainActivity.this,
                R.id.nav_host_fragment_content_main);
            navController.navigate(id);
            DrawerLayout drawer = findViewById(R.id.drawer_layout);
            drawer.closeDrawer(GravityCompat.START);
        }
        return true;
    }
});

}

1 usage
private void showNotification() {
    if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
        NotificationChannel channel = new NotificationChannel( id: "channel_id", name: "Channel Name",
            NotificationManager.IMPORTANCE_DEFAULT);
        NotificationManager notificationManager = getSystemService(NotificationManager.class);
        notificationManager.createNotificationChannel(channel);
    }
    NotificationCompat.Builder builder = new NotificationCompat.Builder( context: this, channelId: "channel_id")
        .setSmallIcon(R.drawable.baseline_notifications_active_24)
        .setContentTitle("登出通知")
        .setContentText("已成功登出!!")
        .setPriority(NotificationCompat.PRIORITY_DEFAULT);
    NotificationManagerCompat notificationManager = NotificationManagerCompat.from( context: this);
    if (ActivityCompat.checkSelfPermission( context: this, android.Manifest.permission.POST_NOTIFICATIONS)
        != PackageManager.PERMISSION_GRANTED) {
        // TODO: Consider calling
        // ActivityCompat#requestPermissions
    }
    return;
}
```

```
        }
        notificationManager.notify( id: 1, builder.build());
    }
1 usage
private void broadcastDatabaseUpdate() {
    Intent intent = new Intent( action: "database_update_event");
    LocalBroadcastManager.getInstance( context: this).sendBroadcast(intent);
}

1 usage
private void showLoginDialog() {
    DialogFragment newFragment = new Login();
    newFragment.show(getSupportFragmentManager(), tag: "login_dialog");
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    int id = item.getItemId();

    // 使用 if 语句处理菜单项点击事件
    if (id == R.id.action_search) {
        Uri webpage = Uri.parse( uriString: "https://www.android.com");
        Intent webIntent = new Intent(Intent.ACTION_VIEW, webpage);
        startActivity(webIntent);
        Toast.makeText( context: this, text: "Search!!!", Toast.LENGTH_LONG).show();
        return true;
    } else if (id == R.id.action_mail) {
        // 处理发送邮件的逻辑
        Intent emailIntent = new Intent(Intent.ACTION_SEND);
        // The intent does not have a URI, so declare the "text/plain" MIME type
        emailIntent.setType("text/plain");
        emailIntent.putExtra(Intent.EXTRA_EMAIL, new String[]{"jan@example.com"}); // recipients
        emailIntent.putExtra(Intent.EXTRA_SUBJECT, value: "Email subject");
        emailIntent.putExtra(Intent.EXTRA_TEXT, value: "Email message text");
        emailIntent.putExtra(Intent.EXTRA_STREAM, Uri.parse( uriString: "content://path/to/email/attachment"));
        // You can also attach multiple items by passing an ArrayList of Uris
        startActivity(emailIntent);
        Toast.makeText( context: this, text: ">>>Mail", Toast.LENGTH_LONG).show();
        return true;
    } else if(id == R.id.action_goolgeMap){
        //MAP point based on address
        Uri location=Uri.parse( uriString: "geo:0,0?q=高雄市楠梓區創新路");
        //Or map point based on latitude/longitude
        //Uri location = Uri.parse("geo:37.422219,-122.083464?z=14");//z param is zoom level
        Intent mapIntent=new Intent(Intent.ACTION_VIEW,location);
        startActivity(mapIntent);
        return true;
    }
}
```

```
        }
        // 其他 if 语句处理其他菜单项点击事件...
    }

    return super.onOptionsItemSelected(item);
}

5 usages
@Override
public boolean onSupportNavigateUp() {
    NavController navController = Navigation.findNavController(activity: this, R.id.nav_host_fragment_content_main);
    return NavigationUI.navigateUp(navController, mAppBarConfiguration)
        || super.onSupportNavigateUp();
}
}
```

2. 會員.java :

```
package com.example.mynavdrawer.ui.PersonalPage;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Toast;
import androidx.annotation.NonNull;
import androidx.fragment.app.DialogFragment;
import androidx.fragment.app.Fragment;
import androidx.navigation.fragment.NavHostFragment;
import com.example.mynavdrawer.R;
import com.example.mynavdrawer.databinding.PersonPageBinding;
import com.example.mynavdrawer.ui.PayMent.PayMent;
import com.example.mynavdrawer.ui.TopUp.TopUp;

4 usages
public class PersonalPage extends Fragment {

    6 usages
    private PersonPageBinding binding;

    @Override
    public View onCreateView(
        LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState
    ) {
        binding = PersonPageBinding.inflate(inflater, container, attachToParent: false);
    }
}
```

```

        return binding.getRoot();
    }

    public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);

        binding.buttonSignout.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                NavHostFragment.findNavController(PersonalPage.this)
                    .navigate(R.id.action_PersonalPage_to_Login);
                Toast.makeText(getApplicationContext(), "已登出...", Toast.LENGTH_LONG).show();
            }
        });

        binding.Topup.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) { TopUp(); }
        });

        binding.Payment.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) { PayMent(); }
        });
    }

    1 usage
    public void TopUp() {
        DialogFragment newFragment = new Topup();
        newFragment.show(getParentFragmentManager(), "Topup");
    }

    1 usage
    public void PayMent() {
        DialogFragment newFragment = new Payment();
        newFragment.show(getParentFragmentManager(), "Payment");
    }

    @Override
    public void onDestroyView() {
        super.onDestroyView();
        binding = null;
    }
}

```

3. 首頁.java :

```
package com.example.mynavdrawer.ui.home;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget ScrollView;
import android.widget.Spinner;
import com.example.mynavdrawer.R;
import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.lifecycle.ViewModelProvider;

import com.example.mynavdrawer.databinding.FragmentHomeBinding;

3 usages
public class HomeFragment extends Fragment {

    4 usages
    private FragmentHomeBinding binding;

    public View onCreateView(@NonNull LayoutInflater inflater,
                           ViewGroup container, Bundle savedInstanceState) {
        HomeViewModel homeViewModel =
            new ViewModelProvider( owner: this).get(HomeViewModel.class);

        binding = FragmentHomeBinding.inflate(inflater, container, attachToParent: false);
        View root = binding.getRoot();

        final ScrollView scrollView = binding.textHome;

        // Find the Spinner in your layout
        Spinner spinner = root.findViewById(R.id.spinner);

        // Create an ArrayAdapter using the string array and a default spinner layout
        ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(
            requireContext(),
            R.array.spinner, // Create an array resource in your res/values/strings.xml
            android.R.layout.simple_spinner_item
        );

        // Specify the layout to use when the list of choices appears
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);

        // Apply the adapter to the spinner
        spinner.setAdapter(adapter);

        return root;
    }

    @Override
    public void onDestroyView() {
        super.onDestroyView();
        binding = null;
    }
}
```

4. 文具. java :

```

package com.example.mynavdrawer.ui.gallery;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget ScrollView;
import android.widget.TextView;
import com.example.mynavdrawer.R;
import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.lifecycle.ViewModelProvider;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import androidx.appcompat.app.AppCompatActivity;

import java.util.ArrayList;
import java.util.List;
import com.example.mynavdrawer.databinding.FragmentGalleryBinding;

2 usages
public class GalleryFragment extends Fragment {

    4 usages
    private FragmentGalleryBinding binding;

    public View onCreateView(@NonNull LayoutInflater inflater,
                           ViewGroup container, Bundle savedInstanceState) {
        GalleryViewModel galleryViewModel =
            new ViewModelProvider(this).get(GalleryViewModel.class);

        binding = FragmentGalleryBinding.inflate(inflater, container, false);
        View root = binding.getRoot();

        final ScrollView scrollView = binding.textGallery;
        /*galleryViewModel.getText().observe(getViewLifecycleOwner(), textView::setText);

        return root;
    }

    @Override
    public void onDestroyView() {
        super.onDestroyView();
        binding = null;
    }
}

```

5. Payment.java :

```

package com.example.mynavdrawer.ui.PayMent;

import ...;
5 usages
public class PayMent extends DialogFragment {
    @Override
    public Dialog onCreateDialog(Bundle savedInstanceState) {
        AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
        // Get the layout inflater
        LayoutInflator inflater = requireActivity().getLayoutInflater();
        // Inflate and set the layout for the dialog
        // Pass null as the parent view because its going in the dialog layout
        builder.setView(inflater.inflate(R.layout.payment, root: null))
            // Add action buttons
            .setPositiveButton("確認", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                    // sign in the user ...
                    Toast.makeText(getActivity(), text: "成功付款...", Toast.LENGTH_LONG).show();
                }
            })
            .setNegativeButton("取消", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    PayMent.this.getDialog().cancel();
                    Toast.makeText(getActivity(), text: "取消付款...", Toast.LENGTH_LONG).show();
                }
            });
        return builder.create();
    }
}

```

6. TopUp. java :

```

package com.example.mynavdrawer.ui.TopUp;

import ...;
5 usages
public class TopUp extends DialogFragment {
    @Override
    public Dialog onCreateDialog(Bundle savedInstanceState) {
        AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
        // Get the layout inflater
        LayoutInflator inflater = requireActivity().getLayoutInflater();
        // Inflate and set the layout for the dialog
        // Pass null as the parent view because its going in the dialog layout
        builder.setView(inflater.inflate(R.layout.top_up, root: null))
            // Add action buttons
            .setPositiveButton("確認", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialog, int id) {
                    // sign in the user ...
                    Toast.makeText(getActivity(), text: "成功存入...", Toast.LENGTH_LONG).show();
                }
            })
            .setNegativeButton("取消", new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int id) {
                    TopUp.this.getDialog().cancel();
                    Toast.makeText(getActivity(), text: "取消存款...", Toast.LENGTH_LONG).show();
                }
            });
        return builder.create();
    }
}

```

7. DBHelper. java :

```
package com.example.mynavdrawer;

import android.content.Context;

import androidx.annotation.Nullable;

import java.io.ByteArrayOutputStream;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.graphics.Bitmap;
import android.widget.Toast;

import java.io.ByteArrayOutputStream;

import androidx.annotation.Nullable;
2 usages
public class DBHelper extends SQLiteOpenHelper{

    3 usages
    Context context;
    1 usage
    private static String DB_NAME = "user.db";
    1 usage
    private static int DB_VERSION = 1;
    1 usage
    private ByteArrayOutputStream byteArrayOutputStream;

    private static String createTableQuery = "Create table LoginUser(username TEXT " +
        ",email TEXT )";

    1 usage
}    public DBHelper(@Nullable Context context) {
    super(context, DB_NAME, null, DB_VERSION);
    this.context = context;
}
}    public void onCreate(SQLiteDatabase database) { database.execSQL(createTableQuery); }

@Override
}    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

}
}    no usages
}    public void storeData(ModelClass modelClass){
    SQLiteDatabase database = this.getWritableDatabase();

    byteArrayOutputStream = new ByteArrayOutputStream();

    ContentValues contentValues = new ContentValues();
    contentValues.put("username", modelClass.getName());
    contentValues.put("email", modelClass.getEmail());

    long checkQuery = database.insert( table: "LoginUser", nullColumnHack: null, contentValues);

}
}    if (checkQuery != -1){
```

```

        Toast.makeText(context, text: "Saved", Toast.LENGTH_SHORT).show();
        database.close();
    } else {
        Toast.makeText(context, text: "Something went wrong", Toast.LENGTH_SHORT).show();
    }
}

1 usage
public Cursor getUser(){
    SQLiteDatabase database = this.getReadableDatabase();
    Cursor cursor = database.rawQuery(sql: "Select * from LoginUser", selectionArgs: null);
    return cursor;
}

}

```

8. ModelClass.java :

```

package com.example.mynavdrawer;

import android.graphics.Bitmap;

1 usage
public class ModelClass {
    3 usages
    private String name, email;

    no usages
    public ModelClass(String name, String email, Bitmap image) {
        this.name = name;
        this.email = email;
    }

    public String getName() { return name; }

    public void setName(String name) { this.name = name; }

    1 usage
    public String getEmail() { return email; }

    no usages
    public void setEmail(String email) { this.email = email; }

}

```

9. DatabaseUpdateReceiver.java :

```
package com.example.mynavdrawer;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.widget.Toast;

1 usage
public class DatabaseUpdateReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        if (intent != null && "database_update_event".equals(intent.getAction())) {
            // 在这里执行数据库更新的逻辑
            Toast.makeText(context, text: "Database Updated!", Toast.LENGTH_SHORT).show();
        }
    }
}
```

10. Activity_main.xml :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start"
    tools:context=".MainActivity">

    <include
        android:id="@+id/app_bar_main"
        layout="@layout/app_bar_main"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

    <com.google.android.material.navigation.NavigationView
        android:id="@+id/nav_view"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_gravity="start"
        android:fitsSystemWindows="true"
        app:headerLayout="@layout/nav_header_main"
        app:menu="@menu/activity_main_drawer"
        />
</androidx.drawerlayout.widget.DrawerLayout>
```

11. App_bar.xml :

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/Theme.MyNavDrawer.AppBarOverlay">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="#FFDE59"
            app:popupTheme="@style/Theme.MyNavDrawer.PopupOverlay" />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_marginEnd="16dp"
        android:layout_marginBottom="16dp"
        app:srcCompat="@drawable/baseline_person_outline_24" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

12. Content_main.xml :

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_behavior="com.google.android.material.appbar.AppBarLayout$ScrollingViewBehavior"
    tools:showIn="@layout/app_bar_main">

    <fragment
        android:id="@+id/nav_host_fragment_content_main"
        android:name="androidx.navigation.fragment.NavHostFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:defaultNavHost="true"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:navGraph="@navigation/mobile_navigation" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

13. 首頁.xml :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.home.HomeFragment">

    <ScrollView
        android:id="@+id/textHome"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:overScrollMode="never"
        android:scrollbars="vertical">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:background="#FFBD59">

            <ImageView
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:scaleType="centerCrop"
                android:src="@drawable/sale" />

            <Spinner
                android:id="@+id/spinner"
                android:layout_width="200dp"
                android:layout_height="50dp"
                android:layout_alignParentStart="true"
                android:layout_alignParentTop="true"
                android:layout_marginStart="16dp"
                android:layout_marginTop="16dp"
                android:textColor="@color/white"/>

            <androidx.cardview.widget.CardView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
                app:cardElevation="5dp"
                app:cardCornerRadius="5dp"
                app:cardBackgroundColor="@color/white">

                <ImageView
                    android:layout_width="1in"
                    android:layout_height="1in"
                    android:layout_margin="5dp"
                    android:background="#FFBD59"
                    android:elevation="3dp" />
            
```

```
        android:src="@drawable/book8"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingLeft="1.1in"
        android:textSize="23sp"
        android:textStyle="bold"
        android:layout_gravity="center"
        android:textColor="#FFDE59"
        android:text="上班族很忙也能考高分的英語自學法"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_marginTop="10dp"
        android:text="特價261元"
        android:paddingRight="16dp"
        android:paddingBottom="16dp"
        android:textColor="#FFDE59"
        android:textSize="23sp" />
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    app:cardElevation="5dp"
    app:cardCornerRadius="5dp"
    app:cardBackgroundColor="@color/white">
    <ImageView
        android:layout_width="1in"
        android:layout_height="1in"
        android:layout_margin="5dp"
        android:background="#FFBD59"
        android:elevation="3dp"
        android:src="@drawable/book20"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingLeft="1.1in"
        android:textSize="23sp"
        android:textStyle="bold"
        android:layout_gravity="center"
        android:textColor="#FFDE59"
        android:text="數獨隨身玩國王級"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:layout_gravity="bottom|right"
        android:layout_marginTop="10dp"
        android:text="特價89元"
        android:paddingRight="16dp"
        android:paddingBottom="16dp"
        android:textColor="#FFDE59"
        android:textSize="23sp" />
</androidx.cardview.widget.CardView>

</LinearLayout>
</ScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

14. 文具.xml :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.home.HomeFragment">

    <ScrollView
        android:id="@+id/textGallery"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:overScrollMode="never"
        android:scrollbars="vertical">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:background="#FFBD59">

            <androidx.cardview.widget.CardView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_margin="5dp"
                app:cardElevation="5dp"

                app:cardCornerRadius="5dp"
                app:cardBackgroundColor="@color/white">

                <ImageView
                    android:layout_width="1in"
                    android:layout_height="1in"
                    android:layout_margin="5dp"
                    android:background="#FFBD59"
                    android:elevation="3dp"
                    android:src="@drawable/clander2" />

                <TextView
                    android:id="@+id/card1Text"
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:paddingLeft="1.in"
                    android:textSize="23sp"
                    android:textStyle="bold"
                    android:layout_gravity="center"
                    android:textColor="#FFDE59"
                    android:text="2024桌上型日曆"/>
                <TextView
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_gravity="bottom|right"
                    android:layout_marginTop="10dp"
```

```
        android:text="特價99元"
        android:paddingRight="16dp"
        android:paddingBottom="16dp"
        android:textColor="#FFDE59"
        android:textSize="23sp" />
    </androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    app:cardElevation="5dp"
    app:cardCornerRadius="5dp"
    app:cardBackgroundColor="@color/white">

    <ImageView
        android:layout_width="1in"
        android:layout_height="1in"
        android:layout_margin="5dp"
        android:background="#FFBD59"
        android:elevation="3dp"
        android:src="@drawable/correction_tape"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingLeft="1.1in"
        android:textSize="23sp"
        android:textStyle="bold"
        android:layout_gravity="center"
        android:textColor="#FFDE59"
        android:text="立可帶"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_marginTop="10dp"
        android:text="特價30元"
        android:paddingRight="16dp"
        android:paddingBottom="16dp"
        android:textColor="#FFDE59"
        android:textSize="23sp" />/>
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    app:cardElevation="5dp"
    app:cardCornerRadius="5dp"
    app:cardBackgroundColor="@color/white">

    <ImageView
        android:layout_width="1in"
        android:layout_height="1in"
        android:layout_margin="5dp"
        android:background="#FFBD59"
        android:elevation="3dp"
        android:src="@drawable/eraser3"/>

    <TextView
        android:id="@+id/card7Text"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:paddingLeft="1.1in"
        android:textSize="23sp"
        android:textStyle="bold"
        android:layout_gravity="center"
        android:textColor="#FFDE59"
        android:text="MONO橡皮擦"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_marginTop="10dp"
        android:text="特價12元"
        android:paddingRight="16dp"
        android:paddingBottom="16dp"
        android:textColor="#FFDE59"
        android:textSize="23sp" />
</androidx.cardview.widget.CardView>

</LinearLayout>
</ScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

15. Main.drawer.xml :

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    tools:showIn="navigation_view">

    <group android:checkableBehavior="single">
        <item
            android:id="@+id/nav_home"
            android:icon="@drawable/menu_book_24px"
            android:title="圖書" />
        <item
            android:id="@+id/nav_gallery"
            android:icon="@drawable/edit_24px"
            android:title="文具" />
        <item
            android:id="@+id/nav_slideshow"
            android:icon="@drawable/person_24px"
            android:title="會員" />

        <item
            android:title="">
            <menu>
                <item
                    android:id="@+id/nav_logout"
                    android:icon="@drawable/baseline_logout_24"
                    android:title="Logout"/>
            </menu>
        </item>
    </group>
</menu>

```

16. Main.xml :

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <item android:id="@+id/action_goolgeMap"
        android:icon="@drawable/place"
        android:orderInCategory="100"
        android:title="Map"
        app:showAsAction="ifRoom" />

    <item android:id="@+id/action_search"
        android:icon="@drawable/search_24px"
        android:orderInCategory="100"
        android:title="Search"
        app:showAsAction="ifRoom" />

    <item android:id="@+id/action_mail"
        android:icon="@drawable/mail_24px"
        android:orderInCategory="101"
        android:title="Mail"
        app:showAsAction="ifRoom" />

</menu>

```

17. Strings.xml :

```
<resources>
    <string name="app_name">圖文部</string>
    <string name="navigation_drawer_open">Open navigation drawer</string>
    <string name="navigation_drawer_close">Close navigation drawer</string>
    <string name="nav_header_desc">Navigation header</string>
    <string name="menu_home">圖書類</string>
    <string name="menu_gallery">文具類</string>
    <string name="menu_slideshow">會員專區</string>
    <string name="menu_login">Login</string>
    <string name="success_login">Login</string>
    <string name="personal_page_label">Personal Page</string>
    <string name="log_in_label">Log In</string>
    <string name="previous">Previous</string>
    <string name="action_search">Search</string>
    <string name="action_mail">Mail</string>
    <string name="inputmoney">輸入金額</string>
    <string name="confirm">確認</string>
    <string name="cancel">取消</string>
    <string name="payment">payment</string>
    <string name="topup">topup</string>
    <string-array name="spinner">
        <item>popular</item>
        <item>newst</item>
        <item>name</item>
        <item>price</item>
    </string-array>
</resources>
```