



APHRODITE

## **Kainotomia**

Aphrodite

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## Brief Description of Project

The Aphrodite App is an interface between the user and the Aphrodite Smart Mirror. The user will be able to create an account in the app that will store the created layouts. Voice commands are also available to the user to control the mirror, as well as an LED colour switcher for the LEDs that are (will be) built into the smart mirror. Each user creates an account on first start and all this information will be stored in the Firebase Realtime database, with the user account information being linked with Firebase Auth.

## Effort Table

Name	ID	Signature	Effort
Alyssa Gomez	N01042777		100%
Daniel Moore	n01354875		100%
Jose Antonio Teodoro	n01384776		100%
Ryan Black	n01305403		100%

## GitHub Repo Link

<https://github.com/DanielMoore4875/Aphrodite>

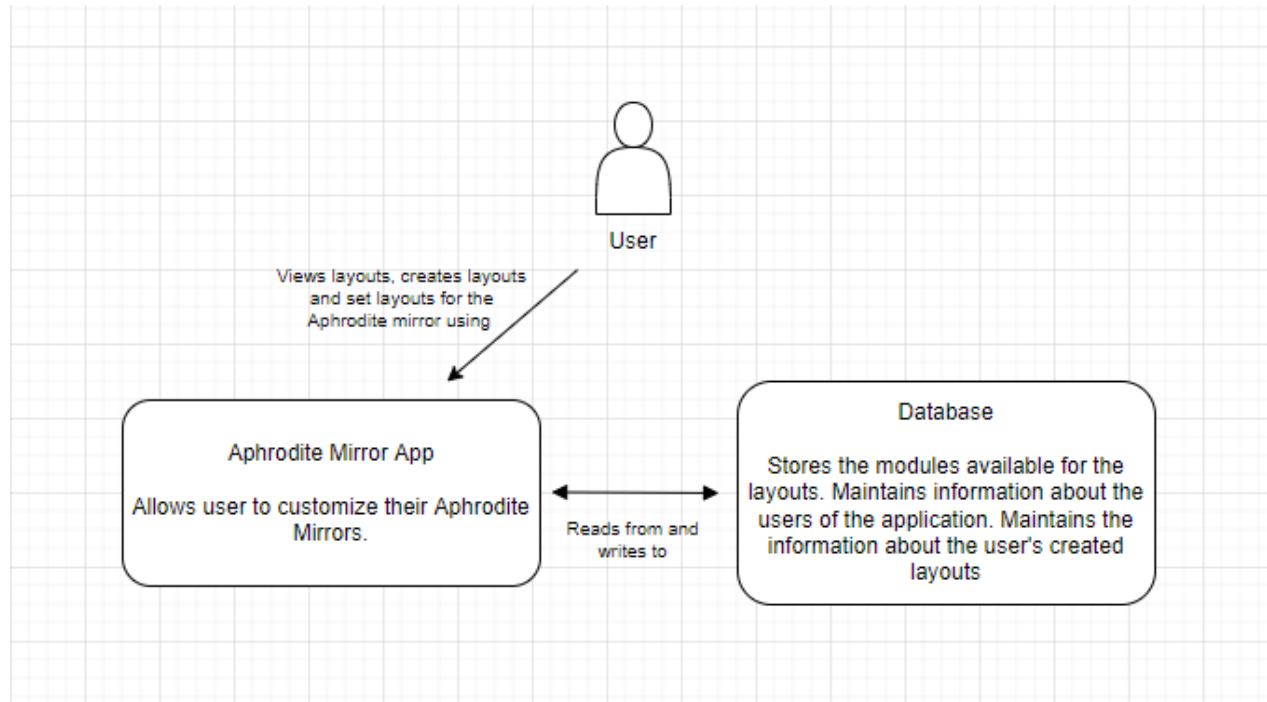
## Sprint Goals

- When user logs in, all layouts that they have created are populated on the home page and the layouts page
- Edit layout functionality for the layouts page
- Test Cases
- Split login and registration into two pages with password criteria implemented
- Finalize the app

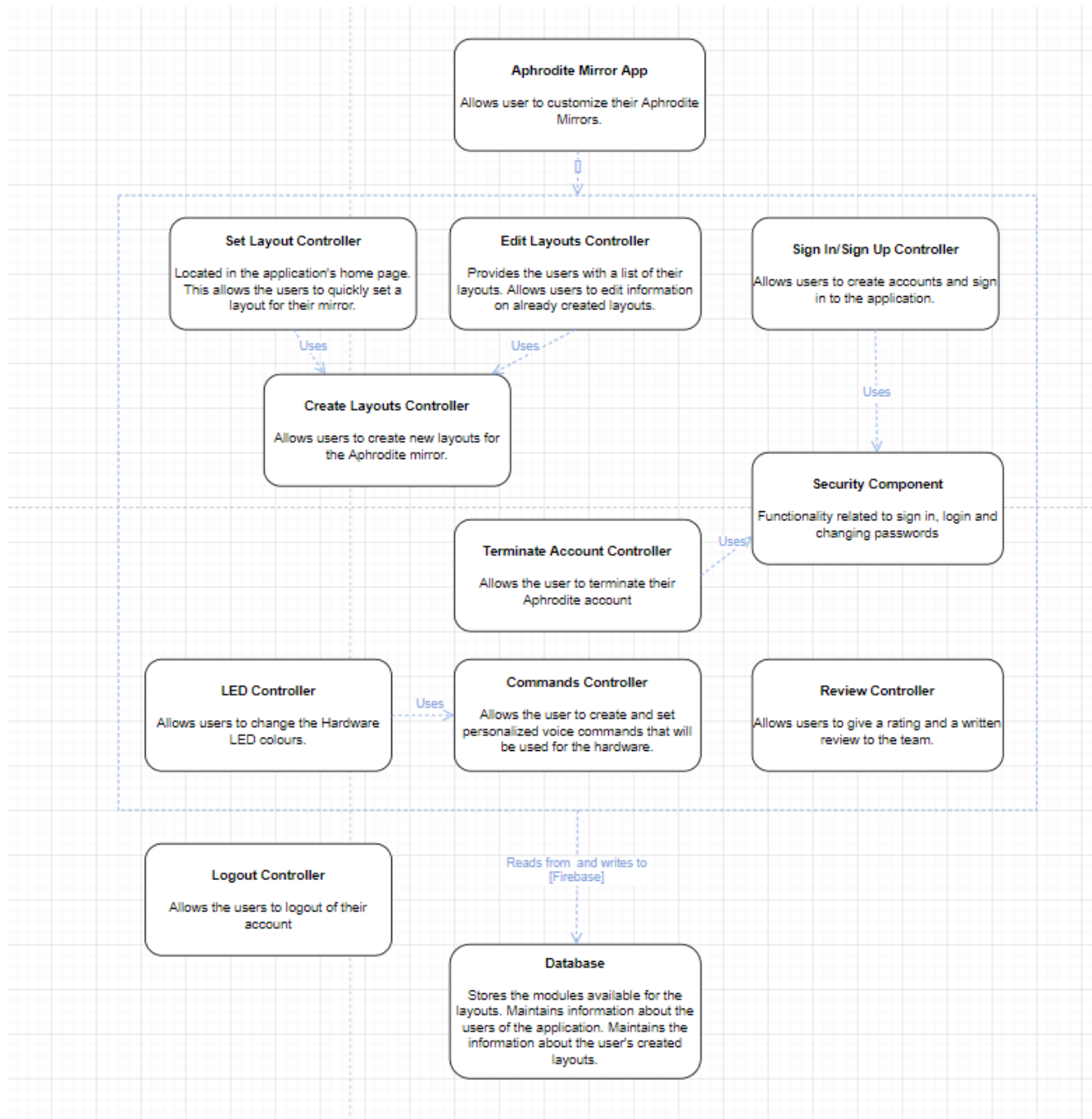
Full timeline:

<https://trello.com/b/Bx0Fipkw>

## C4 Model Container Diagram



# C4 Model Component Diagram



# Project on Google Play

## Production

Create and manage production releases to make your app available to all users in your chosen countries. [Learn more](#)


### Track summary

Active • Release 1 (1.0) in review • 1 country / region • 0 installs

- Release dashboard
- Releases
- Countries / regions

## Releases

1 (1.0)

 In review • 1 version code

Hide summary ^

Version codes	1
Countries / regions	1
Supported Android devices	14,521
	<a href="#">Go to device catalog</a>

# Test Cases

**\*\*Snippets of each class are shown below. Some classes may show error text but that is just a bug in the git tracking of the file, there are no errors and it runs fine.\*\***

## AccountFragmentTest

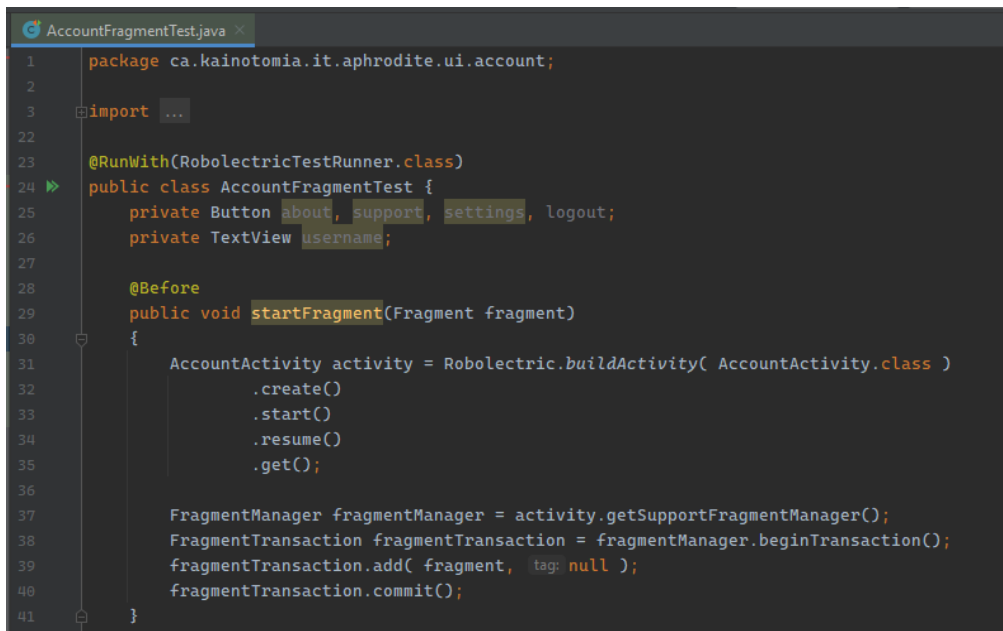
The account fragment test runs and checks if all the buttons and text widgets work in the account fragment. This includes all the transversal buttons going from fragment to fragment and also checks if AccountFragment runs in the first place. In addition, this class also checks string input of the user and if the username value will come through the fragment

Startfragment // runs fragment through method as default

shouldnotBeNull // checks if fragment runs

buttonTest // checks if buttons are active

usernameTest // checks if user name is present within the account fragment



```
1 package ca.kainotomia.it.aphrodite.ui.account;
2
3 import ...
4
22
23 @RunWith(RobolectricTestRunner.class)
24 public class AccountFragmentTest {
25     private Button about, support, settings, logout;
26     private TextView username;
27
28     @Before
29     public void startFragment(Fragment fragment)
30     {
31         AccountActivity activity = Robolectric.buildActivity( AccountActivity.class )
32             .create()
33             .start()
34             .resume()
35             .get();
36
37         FragmentManager fragmentManager = activity.getSupportFragmentManager();
38         FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
39         fragmentTransaction.add( fragment, (tag: null );
40         fragmentTransaction.commit();
41     }
```

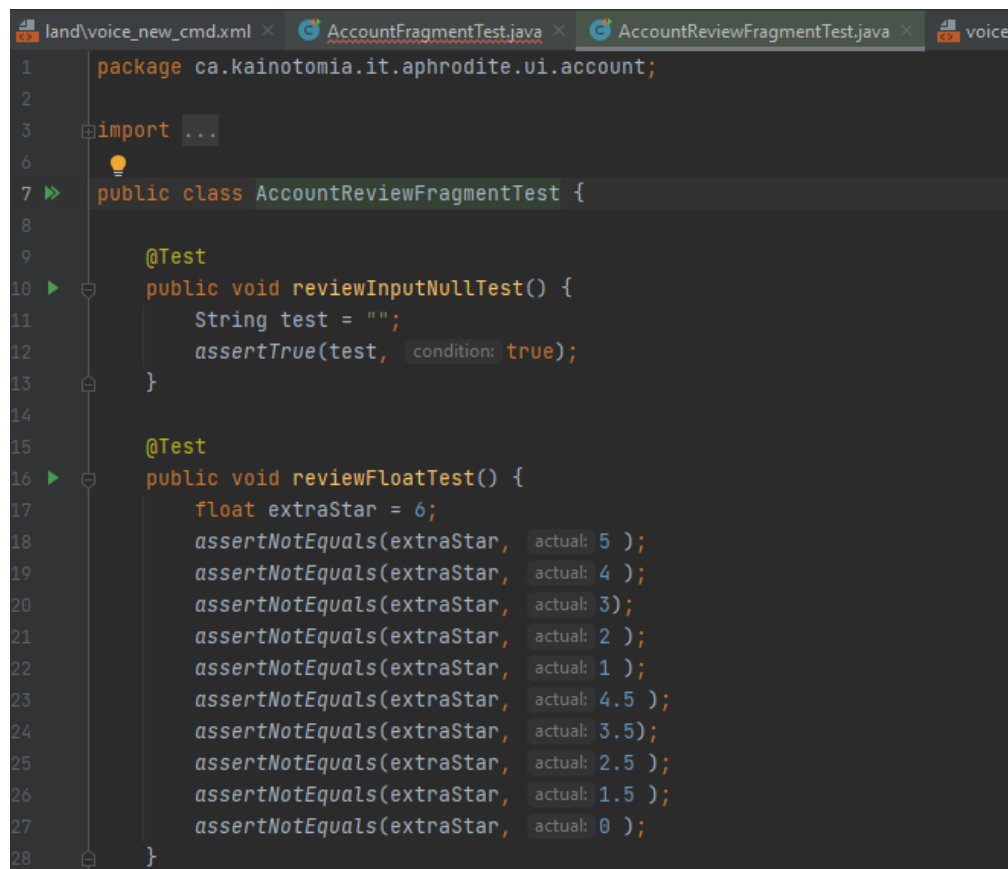
## AccountReviewFragmentTest

The AccountReviewFragmentTest tests if the fragment will run even if there is an empty string, or specifically no review text from the user. in addition it also checks what happens if the float values for the ratingBar will work if it exceeds or stays within range of the 5 star float maximum.

reviewInputNullTest // checks if there is any strong present, will return true regardless

reviewFloatTest // checks if float value exceeds the value of 5.0, it will return false

reviewInputFloatTest // checks if the float value is less than or equal to 5, if it is, it will return true



```
1 package ca.kainotomia.it.aphrodite.ui.account;
2
3 import ...
4
5
6
7 public class AccountReviewFragmentTest {
8
9     @Test
10    public void reviewInputNullTest() {
11        String test = "";
12        assertTrue(test, condition: true);
13    }
14
15    @Test
16    public void reviewFloatTest() {
17        float extraStar = 6;
18        assertNotEquals(extraStar, actual: 5 );
19        assertNotEquals(extraStar, actual: 4 );
20        assertNotEquals(extraStar, actual: 3);
21        assertNotEquals(extraStar, actual: 2 );
22        assertNotEquals(extraStar, actual: 1 );
23        assertNotEquals(extraStar, actual: 4.5 );
24        assertNotEquals(extraStar, actual: 3.5);
25        assertNotEquals(extraStar, actual: 2.5 );
26        assertNotEquals(extraStar, actual: 1.5 );
27        assertNotEquals(extraStar, actual: 0 );
28    }
```



## SignInFragmentTest

Signup/SignInFragmentTest checks if there is nothing, then it will return false, meaning the app won't continue unless all the text boxes are filled out.

```
1 package ca.kainotomia.it.aphrodite.ui.login;
2
3 import ...
4
5
6
7 public class SignInFragmentTest {
8     @Test
9     public void loginNameTest() { assertTrue( message: "", condition: true); }
10
11
12 }
13
```

## SignUpFragmentTest

Signup/SignInFragmentTest checks if there is nothing, then it will return false, meaning the app won't continue unless all the text boxes are filled out.

```
1 package ca.kainotomia.it.aphrodite.ui.login;
2
3 import ...
4
5
6
7 public class SignUpFragmentTest {
8     @Test
9     public void registerNameTest() { assertTrue( message: "", condition: true); }
10
11
12 }
```

## EspressoTest

EspressoTest uses Espresso to check ui input within the app, all separated by multiple screenshot assertions testing login and signup pages if the user exists or doesn't exist in the database, checks if the navigation bar works, and finally checks if the add layout button and add layout fragment runs.

```
1 package ca.kainotomia.it.aphrodite;
2
3
4 import ...
5
6
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28
29
30
31
32
33
34
35
36
37
38
39 @LargeTest
40 @RunWith(AndroidJUnit4.class)
41 public class EspressoTest {
42
43     @Rule
44     public ActivityTestRule<SplashScreenActivity> mActivityTestRule = new ActivityTestRule<>(SplashScreenActivity.class);
45
46     @Test
47     public void espressoTest() {
48         ViewInteraction appCompatEditText = onView(
49             allOf(withId(R.id.FSU_nameEditText),
50                 childAtPosition(
51                     childAtPosition(
52                         withId(R.id.login_frag_host),
53                         position: 1),
54                     position: 1),
55                 isDisplayed()));
56         appCompatEditText.perform(replaceText( stringToBeSet: "Jose Antonio"), closeSoftKeyboard());
57     }
58 }
```

# Offline Features

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

    sp = getSharedPreferences( name: "Saveduserprefs", Context.MODE_PRIVATE);

    SharedPreferences.Editor editor = sp.edit();

    editor.putString("Layout name", savedprelayoutname);
    editor.commit();
}
```

```
@Override
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container,
    @Nullable Bundle savedInstanceState) {

    SharedPreferences sp = getActivity().getSharedPreferences( name: "Saveduserprefs", Context.MODE_PRIVATE);
    String savedprelayoutname = sp.getString( key: "Layout name", defValue: "Layout error");
}
```

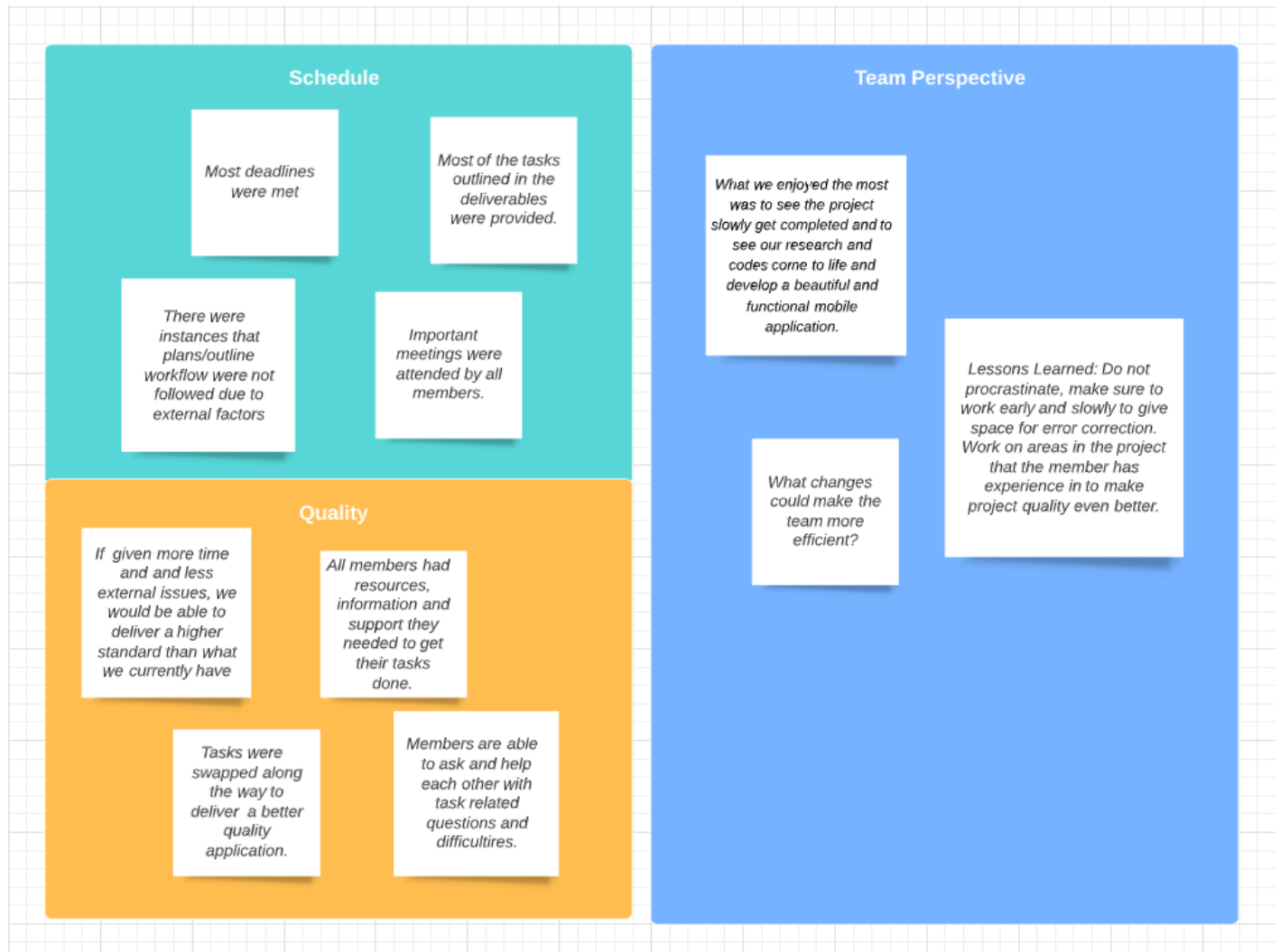
Created the sharedpreferences in order to receive the names of the users layout pages, and save them within sharedpreferences sp. When the user ends up creating and pressing the save button on createlayoutfragment page it will automatically store the name and keep it there for when the device is in offline mode.

## Complete Scrum Dashboard

All Stories and tasks on Trello Board

<https://trello.com/b/Bx0Fipkw>

# Post-Mortem Project Review Meeting



## How We Addressed Technical Debt

In the introduction of the app, we wanted to test that the login was possible and able to be done easily. We used the built-in Firebase UI login builders that handled all the login information and combined the registration and login into one page. Once we knew more about how the login functionality would work and the requirements needed, we refactored the login process to be two screens, registration and login. Both the screens meet the password requirements and allow the user to login with ease. If the user closes the app without logging out, they will be auto-logged in when they start the app again for easy and fast access to their layouts.

## Two Areas of Refactoring

Using the UpdateDBNode class for all firebase related queries that call on similar data

- This was done to make it easier to reference a node and know exactly what is going to be done when it is referenced.

```
private final DatabaseReference databaseReference;  
private final FirebaseAuth firebaseUser;  
  
public UpdateDBNode(String dbRef) {  
    this.databaseReference = FirebaseDatabase.getInstance().getReference(dbRef);  
    this.firebaseUser = FirebaseAuth.getInstance().getCurrentUser();  
}
```

Renaming strings in strings.xml to reflect what page they exist on

- This was done for easy access to strings when their reference is needed in the code.

```
<!-- Fragment Sign in and Fr  
<string name="FSU_name_hint">  
<string name="FSU_email_hint":  
<string name="FSU_pass_hint">  
<string name="FSI_login_txt">  
<string name="voice_noConnection">C  
<string name="voice_fab_desc">New Vo  
<string name="voice_new_command">Nei  
<string name="voice_desc_editTxt">De  
<string name="voice_title_editTxt">  
<string name="voice_submit_cmd_txt":  
<string name="voice_default_commands  
<string name="voice_user_commands">U
```

## Suggestions to the instructor

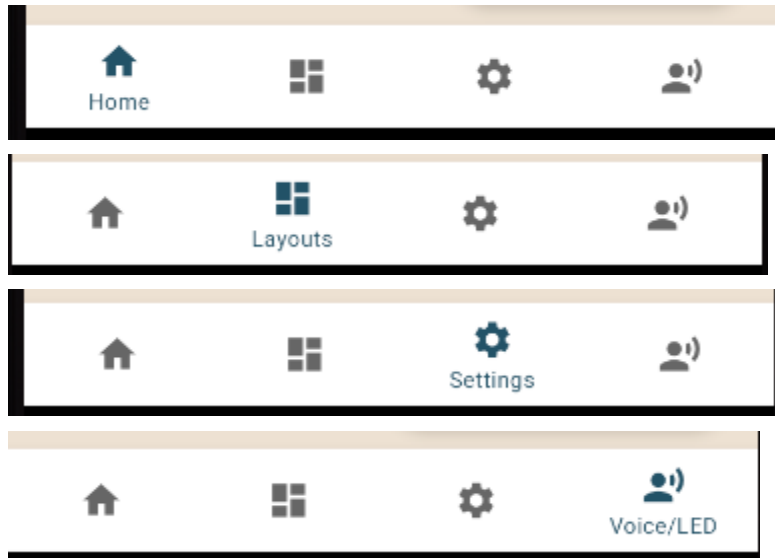
- Clearer information on the deliverables.
- Less tasks on each deliverable.
- Have less commits requirement on the final deliverable as some teams may be close to finishing or are done with their application development. Thus causing them to not have enough commits by the end of the deliverable.

# Page Screenshots



# Items from other Deliverables

Bottom Navigation menu



Split Login and Registration Pages

The image shows two side-by-side mobile app screens for a service named 'Aphrodite'. Both screens have a dark teal header with the name 'Aphrodite' in white. The left screen is the registration page, featuring a logo of a hand holding a plant, followed by input fields for 'Name', 'Email', 'Password', and 'Confirm Password'. Below these fields is a brown 'REGISTER' button, a link 'Already Registered?', and a brown 'GO TO LOGIN' button. The right screen is the login page, featuring the same logo, followed by input fields for 'Email' and 'Password', and a brown 'LOGIN' button.