# Jawaban Soal Ujian Tengah Semester Ganjil 2023/2024

NIM : 211402002 Nama : Kezia Natalia

Mata Kuliah : Pemrograman Mobile

Link Github : <a href="https://github.com/keyynatwgm/002">https://github.com/keyynatwgm/002</a> sunflower.git

1. Clone Repository

```
MINGW64:/e/semester 5/PM/uts/002_sunflower/sunflower

Yoyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower

$ git clone https://github.com/android/sunflower.git

Cloning into 'sunflower'...

remote: Enumerating objects: 7006, done.

remote: Counting objects: 100% (819/819), done.

remote: Compressing objects: 100% (374/374), done.

remote: Total 7006 (delta 354), reused 611 (delta 215), pack-reused 6187

Receiving objects: 100% (7006/7006), 11.04 MiB | 309.00 KiB/s, done.

Resolving deltas: 100% (3250/3250), done.
```

2. Mengubah remote url ke repository <a href="https://github.com/keyynatwgm/002\_sunflower.git">https://github.com/keyynatwgm/002\_sunflower.git</a> dengan perintah git remote set-url origin dan mengecek perubahan dengan perintah git remote –v

```
MINGW64:/e/semester 5/PM/uts/002 sunflower/sunflower
oyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower
$ git clone https://github.com/android/sunflower.git
Cloning into 'sunflower'...
remote: Enumerating objects: 7006, done.
remote: Counting objects: 100% (819/819), done.
remote: Compressing objects: 100% (374/374), done.
remote: Total 7006 (delta 354), reused 611 (delta 215), pack-reused 6187
Receiving objects: 100% (7006/7006), 11.04 MiB | 309.00 KiB/s, done.
Resolving deltas: 100% (3250/3250), done.
Yoyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower
$ cd sunflower/
Yoyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower/sunflower (main)
$ git remote -v
origin https://github.com/android/sunflower.git (fetch)
origin https://github.com/android/sunflower.git (push)
Yoyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower/sunflower (main)
$ git remote set-url origin https://github.com/keyynatwgm/002_sunflower.git
Yoyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower/sunflower (main)
$ git remote -v
origin https://github.com/keyynatwgm/002_sunflower.git (fetch)
origin https://github.com/keyynatwgm/002_sunflower.git (push)
 oyada@Yoyada MINGW64 /e/semester 5/PM/uts/002_sunflower/sunflower (main)
```

#### 3. Melakukan modifikasi file

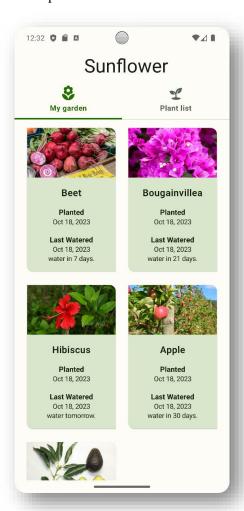
a. Modifikasi 1 : Mengubah Judul Aplikasi dari Sunflower menjadi "Taman Bunga"

File yang diubah : app/src/main/res/values/strings.xml

Kode yang diubah :



Tampilan Sebelum:



Tampilan Sesudah



b. Modifikasi 2 : Mengubah tampilan MyGarden menjadi Scrollable Horizontal List dengan 3 Kolom

File yang diubah

- app/src/main/java/com/google/samples/apps/sunflower/compose/garden/GardenScreen.kt
- app/src/main/res/values/dimens.xml

#### Kode yang diubah:

Pada file GardenScreen.kt

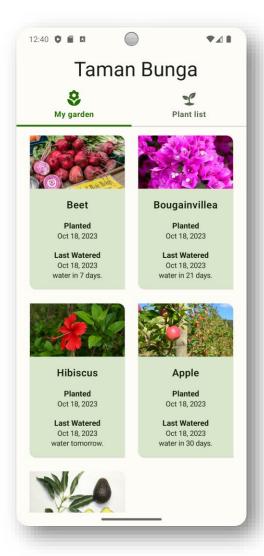
```
v 💠 26 💶 💶 app/src/main/java/com/google/samples/apps/sunflower/compose/garden/GardenScreen.kt 📮
       @@ -24,7 +24,9 @@ import androidx.compose.foundation.layout.PaddingValues
       import androidx.compose.foundation.layout.fillMaxWidth
                                                                                            import androidx.compose.foundation.layout.fillMaxWidth
       import androidx.compose.foundation.layout.height
                                                                                            import androidx.compose.foundation.layout.height
       import androidx.compose.foundation.layout.padding
                                                                                            import androidx.compose.foundation.layout.padding
                                                                                     27 + import androidx.compose.foundation.layout.size
       import androidx.compose.foundation.lazy.grid.GridCells
                                                                                            {\tt import\ androidx.compose.foundation.lazy.grid.GridCells}
                                                                                     29
                                                                                        + import androidx.compose.foundation.lazy.grid.LazyHorizontalGrid
                                                                                            import androidx.compose.foundation.lazy.grid.LazyVerticalGrid
       import androidx.compose.foundation.lazy.grid.LazyVerticalGrid
       import androidx.compose.foundation.lazy.grid.items
                                                                                            import androidx.compose.foundation.lazy.grid.items
                                                                                            {\it import and roidx.} compose. foundation. lazy. {\it grid.rememberLazyGridState}
       {\color{blue} \textbf{import}} \ \ \textbf{androidx.compose.foundation.lazy.grid.remember LazyGridState}
       @@ -96,8 +98,8 @@ private fun GardenList(
           // Call reportFullyDrawn when the garden list has been rendered
                                                                                                // Call reportFullyDrawn when the garden list has been rendered
           val gridState = rememberLazyGridState()
                                                                                                val gridState = rememberLazyGridState()
           ReportDrawnWhen { gridState.layoutInfo.totalItemsCount > 0 }
                                                                                                ReportDrawnWhen { gridState.layoutInfo.totalItemsCount > 0 }
           LazyVerticalGrid(
                                                                                    101 +
                                                                                                LazyHorizontalGrid(
99
                                                                                                    rows = GridCells.Fixed(1),
100
               columns = GridCells.Fixed(2),
                                                                                    102
               modifier,
                                                                                                    modifier,
                                                                                                    state = gridState,
               state = gridState,
               contentPadding = PaddingValues(
                                                                                                   contentPadding = PaddingValues(
       @@ -130,13 +132,19 @@ private fun GardenListItem(
           ElevatedCard(
                                                                                                 ElevatedCard(
               onClick = { onPlantClick(plant) },
                                                                                                     onClick = { onPlantClick(plant) },
133 🛨
                modifier = Modifier.padding(
                                                                                      135
                                                                                                      modifier = Modifier
                   start = cardSideMargin,
134
                                                                                      136
                                                                                                         .size(
135
                   end = cardSideMargin,
                                                                                      137
                                                                                                             width = dimensionResource(id =R.dimen.card_width) ,
                                                                                                             height = dimensionResource(id =R.dimen.card_height)
136
                   bottom = dimensionResource(id = R.dimen.card bottom margin)
                                                                                      138
                                                                                      139
               colors = CardDefaults.cardColors(containerColor =
                                                                                      140
                                                                                                         .padding(
138
       MaterialTheme.colorScheme.secondaryContainer)
                                                                                                             start = cardSideMargin,
139 -
           ) {
                                                                                      141
                                                                                      142 +
                                                                                                             end = cardSideMargin,
                                                                                      143
                                                                                                             bottom = dimensionResource(id =
                                                                                             R.dimen.card_bottom_margin_garden)
                                                                                      144 +
                                                                                                      colors = CardDefaults.cardColors(containerColor =
                                                                                             MaterialTheme.colorScheme.secondaryContainer).
                                                                                      147
               Column(Modifier.fillMaxWidth()) {
                                                                                                      Column(Modifier.fillMaxWidth()) {
                    SunflowerImage(
                                                                                                         SunflowerImage(
                       model = vm.imageUrl.
                                                                                                             model = vm.imageUrl,
```

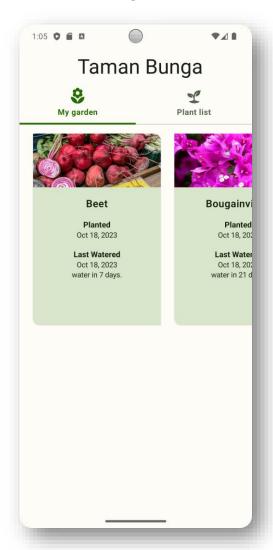
• Pada file dimens.xml

```
∨ 💠 3 ■■■■ app/src/main/res/values/dimens.xml 📮
          <dimen name="card_side_margin">12dp</dimen>
                                                                                              <dimen name="card_side_margin">12dp</dimen>
38 🖶
          <dimen name="card_bottom_margin">26dp</dimen>
                                                                                              <dimen name="card_bottom_margin">26dp</dimen>
                                                                                              <dimen name="card bottom margin garden">320dp</dimen>
                                                                                   39
          <dimen name="card_elevation">2dp</dimen>
                                                                                              <dimen name="card_elevation">2dp</dimen>
          <dimen name="card_corner_radius">12dp</dimen>
                                                                                              <dimen name="card_corner_radius">12dp</dimen>
                                                                                              <dimen name="card_width">250dp</dimen>
                                                                                              <dimen name="card_height">36dp</dimen>
          <!-- elevation for Plant Detail toolbar - used to convert to pixels
                                                                                             <!-- elevation for Plant Detail toolbar - used to convert to pixels
          <dimen name="toolbar_elevation">5dp</dimen>
                                                                                              <dimen name="toolbar_elevation">5dp</dimen>
```

Tampilan Sebelum

Tampilan Sesudah





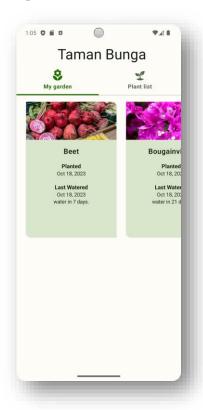
### c. Modifikasi 3 : Mengubah tampilan Card menjadi full rounded dengan ukuran 32dp

File yang diubah

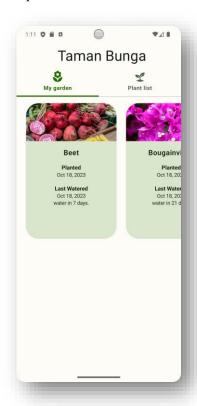
app/src/main/java/com/google/samples/apps/sunflower/ui/Shapes.kt

Kode yang diubah :

## Tampilan Sebelum:



# Tampilan Sesudah :





d. Modifikasi 4 : Mengubah Color Pallete / Theme aplikasi sesuai dengan preferensi

masing-masing

File yang diubah : app/src/main/java/com/google/samples/apps/sunflower/ui/Color.kt

Kode yang diubah :

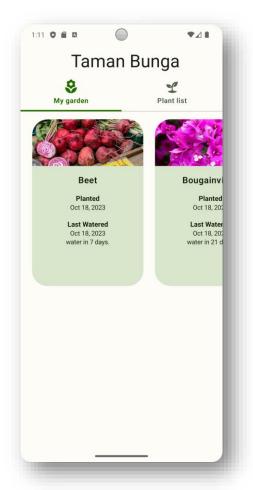
• Mengubah warna card container (secondary container)

```
27 - val md_theme_light_secondaryContainer = Color(@xFF82CD47)
28 val md_theme_light_secondaryContainer = Color(@xFF83CD47)
29 val md_theme_light_onSecondaryContainer = Color(@xFF33F80)
29 val md_theme_light_onSecondaryContainer = Color(@xFF33F80)
29 val md_theme_light_onSecondaryContainer = Color(@xFF38F80)
30 val md_theme_light_onSecondaryContainer = Color(@xFF8FFFFF)
30 val md_theme_light_onSecondary = Color(@xFF858F80)
50 val md_theme_dark_onSecondary = Color(@xFF8CSB80)
51 val md_theme_dark_onSecondary = Color(@xFF8CSB80)
52 val md_theme_dark_secondary = Color(@xFF8CSB80)
53 val md_theme_dark_secondary = Color(@xFF8CSB80)
54 val md_theme_dark_secondary = Color(@xFF8CSB80)
55 val md_theme_dark_secondaryContainer = Color(@xFF8CSB80)
56 val md_theme_dark_secondaryContainer = Color(@xF8CSB80)
57 val md_theme_dark_secondaryContainer = Color(@xF8CSB80)
58 val md_theme_dark_secondaryContainer = Color(@xF8CSB80)
59 - val md_theme_dark_secondaryContainer = Color(@xF8CSB80)
60 val md_theme_dark_secondaryContainer = Color(@xF8CSB80)
61 val md_theme_dark_container = Color(@xF8CSB80)
62 val md_theme_dark_container = Color(@xF8CSB80)
63 val md_theme_dark_container = Color(@xF8CSB80)
64 val md_theme_dark_container = Color(@xF8CSB80)
65 val md_theme_dark_container = Color(@xF8CSB80)
66 val md_theme_dark_container = Color(@xF8CSB80)
67 val md_theme_dark_container = Color(@xF8CSB80)
68 val md_theme_dark_container = Color(@xF8CSB80)
69 val md_theme_dark_container = Color(@xF8CSB80)
60 val md_theme_dark_container = Color(@xF8CSB80)
60 val md_theme_dark_container = Color(@xF8CSB80)
61 val md_theme_dark_container = Color(@xF8CSB80)
62 val md_theme_dark_container = Color(@xF8CSB80)
63 val md_theme_dark_container = Color(@xF8CSB80)
64 val md_theme_dark_container = Color(@xF8CSB80)
65 val md_theme_dark_container = Color(@xF8CSB80)
66 val md_theme_dark_container = Color(@xF8CSB80)
67 val md_theme_dark_container = Color(@xF8CSB80)
68 val md_theme_dark_container = Color(@xF8CSB80)
69 val md_theme_dark_container = Color(@xF8CSB80)
```

Kode warna yang digunakan: 82CD47



Tampilan Sebelum mengubah warna container:

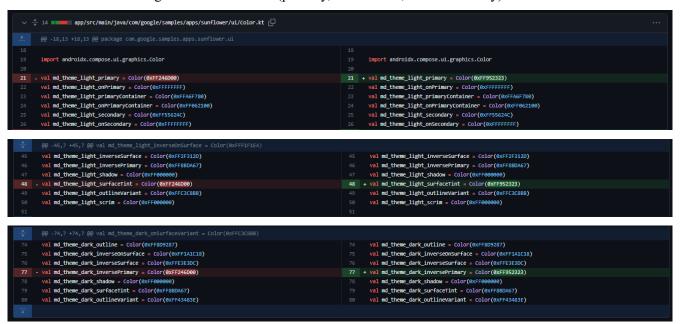


#### Tampilan Sesudah mengubah warna container:



### Kode yang diubah :

• Mengubah warna navbar (primary, surfaceTint, inversePrimary)



Kode warna yang digunakan: 952323



## Tampilan Sebelum mengubah warna navbar:



# Tampilan Sesudah mengubah warna navbar :





• Mengubah warna background



Kode yang diubah : FFF9CA



Tampilan Sebelum mengubah warna background : Tampilan Sebelum mengubah warna background :





4. Riwayat perubahan pada Github: https://github.com/keyynatwgm/002 sunflower.git

