

**LAPORAN PRAKTIKUM
PEMROGRAMAN MOBILE
MODUL 4**



Android Layout

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LEMBAR PENGESAHAN
LAPORAN PRAKTIKUM PEMROGRAMAN MOBILE
MODUL 4

Laporan Praktikum Pemrograman Mobile Modul 4: Android Layout ini disusun sebagai syarat lulus mata kuliah Praktikum Pemrograman Mobile. Laporan Praktikum ini dikerjakan oleh:

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SOAL

Buatlah sebuah aplikasi Android sederhana dengan spesifikasi sebagai berikut:

1. Tema aplikasi disesuaikan dengan NIM mahasiswa masing-masing:
 - NIM dengan akhiran 0/1: Class dan Object dengan Tema **Pekerjaan**
 - NIM dengan akhiran 2/3: Class dan Object dengan Tema **Otomotif**
 - NIM dengan akhiran 4/5: Class dan Object dengan Tema **Olahraga**
 - NIM dengan akhiran 6/7: Class dan Object dengan Tema **Hewan**
 - NIM dengan akhiran 8/9: Class dan Object dengan Tema **Teknologi**
2. Aplikasi tersebut memiliki elemen berikut:
 - Activity
 - Fragment
 - Intent
 - Navigation Drawer
 - Options Menu
 - RecyclerView
3. Tampilan awal aplikasi menampilkan TextView dan ImageView dengan ucapan selamat datang (format bebas)
4. Menu Navigasi memiliki minimal 3 buah menu yang masing-masing menu dapat menampilkan Fragment yang berisi RecyclerView yang berbeda-beda sesuai dengan tema yang telah ditentukan
5. Data yang digunakan untuk masing-masing RecyclerView dapat menggunakan data statis berupa List.
6. Item pada RecyclerView dapat diklik untuk menampilkan data yang telah dipilih oleh user
7. Aplikasi juga memiliki Options Menu yang dapat membuka halaman Settings untuk mengubah bahasa yang digunakan (*locale*) menjadi Bahasa Inggris atau Bahasa Indonesia
8. Perubahan bahasa dapat diperlihatkan pada tampilan halaman selamat datang dan menu yang berubah sesuai Bahasa yang dipilih oleh user pada menu Settings

A. Source Code

Table 1 Source Code herbivoraAdapter.kt

1	package com.example.bismillahuas.ui.herbivora
2	
3	import android.content.Context
4	import android.content.Intent
5	import android.view.LayoutInflater
6	import android.view.View
7	import android.view.ViewGroup
8	import android.widget.ImageView
9	import androidx.recyclerview.widget.RecyclerView
10	import com.example.bismillahuas.R
11	import com.example.bismillahuas.animals
12	import com.example.bismillahuas.animalsDetail
13	import com.example.bismillahuas.animalsViewModel
14	
15	class herbivoraAdapter (
16	private val context: Context,
17	private val dataset: List<animals>
18) :
19	RecyclerView.Adapter<herbivoraAdapter.herbivoraViewHolder>
20	() {
21	
22	private val viewModel = animalsViewModel()
23	class herbivoraViewHolder(view: View):
24	RecyclerView.ViewHolder(view) {
25	val herbivoraImg: ImageView =
	view.findViewById(R.id.hewan_img)

26	}
27	
28	override fun onCreateViewHolder(parent: ViewGroup,
29	viewType: Int): herbivoraViewHolder {
30	val layout = LayoutInflater
31	.from(parent.context)
32	.inflate(R.layout.fragment_animals, parent,
33	false)
34	return herbivoraViewHolder(layout)
35	}
36	override fun getItemCount() = dataset.size
37	
38	override fun onBindViewHolder(
39	holder: herbivoraViewHolder,
40	position: Int,
41) {
42	val herbivoraData = dataset[position]
43	
44	holder.herbivoraImg.setImageResource(herbivoraData.imageRe
45	sourceId)
46	
47	holder.itemView.setOnClickListener {
48	viewModel.setAnimals(herbivoraData, context)
49	
50	val intent = Intent(context,
51	animalsDetail::class.java).apply {
52	putExtra("name", viewModel.name.value)

53	putExtra("description",
54	viewModel.desc.value)
55	putExtra("image", viewModel.img.value)
56	}
57	context.startActivity(intent)
58	}
59	}
	}

Table 2 Source Code herbivoraFragment.kt

1	
2	package com.example.bismillahuas.ui.herbivora
3	
4	import android.os.Bundle
5	import android.view.LayoutInflater
6	import android.view.View
7	import android.view.ViewGroup
8	import androidx.fragment.app.Fragment
9	import androidx.recyclerview.widget.LinearLayoutManager
10	import androidx.recyclerview.widget.RecyclerView
11	import com.example.bismillahuas.R
12	import com.example.bismillahuas.data
13	import
14	com.example.bismillahuas.databinding.FragmentAnimalsItemBi
15	nding
16	
17	class herbivoraFragment:
18	Fragment(R.layout.fragment_animals_item) {
19	private var _binding: FragmentAnimalsItemBinding? =
20	null
21	private val binding get() = _binding!!
22	private lateinit var recyclerView: RecyclerView
23	
24	override fun onCreate(savedInstanceState: Bundle?) {
25	super.onCreate(savedInstanceState)
26	setHasOptionsMenu(true)
27	}
28	
29	override fun onCreateView(
30	inflater: LayoutInflater,
31	container: ViewGroup?,

32	savedInstanceState: Bundle?
33): View? {
34	_binding =
35	FragmentAnimalsItemBinding.inflate(inflater, container,
36	false)
37	val view = binding.root
38	return view
39	}
40	
41	override fun onViewCreated(view: View,
42	savedInstanceState: Bundle?) {
43	recyclerView = binding.recyclerView
44	recyclerView.layoutManager =
45	LinearLayoutManager(context)
46	recyclerView.adapter =
47	herbivoraAdapter(requireContext(), data().herbivora())
48	}
49	
50	
51	override fun onDestroyView() {
52	super.onDestroyView()
53	_binding = null
54	}
55	}

Table 3 karnivoraAdapter.kt

1	package com.example.bismillahuas.ui.karnivora
2	
3	import android.content.Context
4	import android.content.Intent
5	import android.view.LayoutInflater
6	import android.view.View
7	import android.view.ViewGroup
8	import android.widget.ImageView
9	import androidx.recyclerview.widget.RecyclerView
10	import com.example.bismillahuas.*
11	

```

12 class karnivoraAdapter (
13     private val context: Context,
14     private val dataset: List<animals>
15 ):
16 RecyclerView.Adapter<karnivoraAdapter.karnivoraViewHolder>
17 () {
18
19     private val viewModel = animalsViewModel()
20     class karnivoraViewHolder(view: View):
21     RecyclerView.ViewHolder(view) {
22         val karnivoraImg: ImageView =
23         view.findViewById((R.id.hewan_img))
24     }
25
26     override fun onCreateViewHolder(parent: ViewGroup,
27     viewType: Int): karnivoraViewHolder {
28         val layout = LayoutInflater
29         .from(parent.context)
30         .inflate(R.layout.fragment_animals, parent,
31         false)
32         return karnivoraViewHolder(layout)
33     }
34
35     override fun getItemCount() = dataset.size
36
37     override fun onBindViewHolder(holder:
38     karnivoraViewHolder, position: Int) {
39         val karnivoraData = dataset[position]
40         holder.karnivoraImg.setImageResource(karnivoraData.imageRe
41         sourceId)

```

39	
40	holder.itemView.setOnClickListener {
41	viewModel.setAnimals(karnivoraData, context)
42	
43	val intent = Intent(context,
44	animalsDetail::class.java). apply {
45	putExtra("name", viewModel.name.value)
46	putExtra("description",
47	viewModel.desc.value)
48	putExtra("image", viewModel.img.value)
49	}
50	context.startActivity(intent)
51	}
52	}
53	

Table 4 karnivoraFragment.kt

1	package com.example.bismillahuas.ui.karnivora
2	
3	import android.os.Bundle
4	import android.view.LayoutInflater
5	import android.view.View
6	import android.view.ViewGroup
7	import androidx.fragment.app.Fragment
8	import androidx.recyclerview.widget.LinearLayoutManager
9	import androidx.recyclerview.widget.RecyclerView
10	import com.example.bismillahuas.R
11	import com.example.bismillahuas.data
12	import
13	com.example.bismillahuas.databinding.FragmentAnimalsItemBi
14	nding
15	
16	
17	class karnivoraFragment:
18	Fragment(R.layout.fragment_animals_item) {

19	private var _binding: FragmentAnimalsItemBinding? =
20	null
21	private val binding get() = _binding!!
22	private lateinit var recyclerView: RecyclerView
23	
24	override fun onCreate(savedInstanceState: Bundle?) {
25	super.onCreate(savedInstanceState)
26	setHasOptionsMenu(true)
27	}
28	
29	override fun onCreateView(
30	inflater: LayoutInflater,
31	container: ViewGroup?,
32	savedInstanceState: Bundle?
33): View? {
34	_binding =
35	FragmentAnimalsItemBinding.inflate(inflater, container,
36	false)
37	val view = binding.root
38	return view
39	}
40	
41	override fun onViewCreated(view: View,
42	savedInstanceState: Bundle?) {
43	recyclerView = binding.recyclerView
44	recyclerView.layoutManager =
45	LinearLayoutManager(context)
46	recyclerView.adapter =
47	karnivoraAdapter(requireContext(), data().Karnivora())
48	}
49	
50	override fun onDestroyView() {
51	super.onDestroyView()
52	_binding = null
53	}
54	}

Table 5 Source Code omnivoraAdapter.kt

1	package com.example.bismillahuas.ui.omnivora
2	
3	import android.content.Context
4	import android.content.Intent

```

5 import android.view.LayoutInflater
6 import android.view.View
7 import android.view.ViewGroup
8 import android.widget.ImageView
9 import androidx.recyclerview.widget.RecyclerView
10 import com.example.bismillahuas.R
11 import com.example.bismillahuas.animals
12 import com.example.bismillahuas.animalsDetail
13 import com.example.bismillahuas.animalsViewModel
14
15 class omnivoraAdapter (
16     private val context: Context,
17     private val dataset: List<animals>
18 ):
19     RecyclerView.Adapter<omnivoraAdapter.omnivoraViewHolder>
20     () {
21         private val viewModel = animalsViewModel()
22         class omnivoraViewHolder(view: View):
23             RecyclerView.ViewHolder(view) {
24                 val omnivoraImg: ImageView =
25                     view.findViewById(R.id.hewan_img)
26             }
27         override fun onCreateViewHolder(parent: ViewGroup,
28             viewType: Int): omnivoraViewHolder {
29             val layout = LayoutInflater
30                 .from(parent.context)
31                 .inflate(R.layout.fragment_animals, parent,
32                     false)
33             return omnivoraViewHolder(layout)

```

32	}
33	override fun getItemCount() = dataset.size
34	override fun onBindViewHolder(holder:
35	omnivoraViewHolder, position: Int) {
36	val omnivoraData = dataset[position]
37	holder.omnivoraImg.setImageResource(omnivoraData.imageReso
38	urceId)
39	holder.itemView.setOnClickListener {
40	viewModel.setAnimals(omnivoraData, context)
41	
42	val intent = Intent(context,
43	animalsDetail::class.java).apply {
44	putExtra("name", viewModel.name.value)
45	putExtra("description",
46	viewModel.desc.value)
47	putExtra("image", viewModel.img.value)
48	}
49	context.startActivity(intent)
50	}
51	}

Table 6 Source Code omnivoraFragment.kt

1	package com.example.bismillahuas.ui.omnivora
2	
3	import android.os.Bundle
4	import android.view.LayoutInflater
5	import android.view.View
6	import android.view.ViewGroup
7	import androidx.fragment.app.Fragment
8	import androidx.recyclerview.widget.LinearLayoutManager
9	import androidx.recyclerview.widget.RecyclerView

```

10 import com.example.bismillahuas.R
11 import com.example.bismillahuas.data
12 import
13 com.example.bismillahuas.databinding.FragmentAnimalsItemBi
14 nding
15 import
16 com.example.bismillahuas.ui.karnivora.karnivoraAdapter
17
18 class omnivoraFragment:
19     Fragment(R.layout.fragment_animals_item) {
20         private var _binding: FragmentAnimalsItemBinding? =
21         null
22         private val binding get() = _binding!!
23         private lateinit var recyclerView: RecyclerView
24
25         override fun onCreate(savedInstanceState: Bundle?) {
26             super.onCreate(savedInstanceState)
27             setHasOptionsMenu(true)
28         }
29
30         override fun onCreateView(
31             inflater: LayoutInflater,
32             container: ViewGroup?,
33             savedInstanceState: Bundle?
34         ): View? {
35             _binding =
36             FragmentAnimalsItemBinding.inflate(inflater, container,
37             false)
38             val view = binding.root
39             return view
40         }
41
42         override fun onViewCreated(view: View,
43             savedInstanceState: Bundle?) {
44             recyclerView = binding.recyclerView
45             recyclerView.layoutManager =
46             LinearLayoutManager(context)
47             recyclerView.adapter =
48             karnivoraAdapter(requireContext(), data().Omnivora())
49         }
50
51         override fun onDestroyView() {
52             super.onDestroyView()
53             _binding = null
54         }
55     }
56

```


Table 7 Source Code HomeFragment.kt

1	package com.example.bismillahuas.ui.home
2	
3	import android.os.Bundle
4	import android.view.LayoutInflater
5	import android.view.View
6	import android.view.ViewGroup
7	import android.widget.TextView
8	import androidx.fragment.app.Fragment
9	import androidx.lifecycle.ViewModelProvider
10	import
11	com.example.bismillahuas.databinding.FragmentHomeBinding
12	
13	class HomeFragment : Fragment() {
14	
15	private var _binding: FragmentHomeBinding? = null
16	private val binding get() = _binding!!
17	
18	override fun onCreateView(
19	inflater: LayoutInflater,
20	container: ViewGroup?,
21	savedInstanceState: Bundle?
22): View {
23	val homeViewModel =
24	
25	ViewModelProvider(this).get(HomeViewModel::class.java)
26	
27	_binding = FragmentHomeBinding.inflate(inflater,
28	container, false)
29	val root: View = binding.root
30	
31	val textView: TextView = binding.tvHome
32	homeViewModel.text.observe(viewLifecycleOwner) {
33	textView.text = it
34	}
35	return root
36	}
37	
38	override fun onDestroyView() {
39	super.onDestroyView()
40	_binding = null
41	}
42	}

Table 8 Source Code HomeViewModel

1	package com.example.bismillahuas.ui.home
2	
3	import androidx.lifecycle.LiveData
4	import androidx.lifecycle.MutableLiveData
5	import androidx.lifecycle.ViewModel
6	import com.example.bismillahuas.R
7	
8	class HomeViewModel : ViewModel() {
9	
10	private val _text = MutableLiveData<String>()
11	val text: LiveData<String> get() = _text
12	
13	fun text() {
14	_text.value = R.string.welcome.toString()
15	}
16	}

Table 9 Source Code data.kt

1	package com.example.bismillahuas
2	
3	import androidx.lifecycle.ViewModel
4	
5	class data : ViewModel() {
6	fun herbivora(): List<animals> {
7	return listOf(
8	animals(
9	R.drawable.h1, R.string.herbivora1,
10	R.string.desh1),
11	animals(
12	R.drawable.h2, R.string.herbivora2,
13	R.string.desh2),
14	animals(
15	R.drawable.h3, R.string.herbivora3,
16	R.string.desh3),
17	animals(
18	R.drawable.h4, R.string.herbivora4,
19	R.string.desh4),
20	animals(
21	R.drawable.h5, R.string.herbivora5,
22	R.string.desh5),
23	animals(
24	R.drawable.h6, R.string.herbivora6,
25	R.string.desh6)
26)

27	}
28	
29	fun Karnivora(): List<animals> {
30	return listOf(
31	animals(
32	R.drawable.k1, R.string.karnivora1,
33	R.string.desk1),
34	animals(
35	R.drawable.k2, R.string.karnivora2,
36	R.string.desk2),
37	animals(
38	R.drawable.k3, R.string.karnivora3,
39	R.string.desk3),
40	animals(
41	R.drawable.k4, R.string.karnivora4,
42	R.string.desk4),
43	animals(
44	R.drawable.k5, R.string.karnivora5,
45	R.string.desk5),
46	animals(
47	R.drawable.k6, R.string.karnivora6,
48	R.string.desk6)
49)
50	}
51	
52	fun Omnivora(): List<animals> {
53	return listOf(
54	animals(
55	R.drawable.o1, R.string.omnivora1,
56	R.string.deso1),
57	animals(
58	R.drawable.o2, R.string.omnivora2,
59	R.string.deso2),
60	animals(
61	R.drawable.o3, R.string.omnivora3,
62	R.string.deso3),
63	animals(
64	R.drawable.o4, R.string.omnivora4,
65	R.string.deso4),
66	animals(
67	R.drawable.o5, R.string.omnivora5,
68	R.string.deso5),
69	animals(
70	R.drawable.o6, R.string.omnivora6,
71	R.string.deso6)
72	
73)

74	}
75	
76	}

Table 10 Source Code *animals.kt*

1	
2	package com.example.bismillahuas
3	
4	import androidx.annotation.DrawableRes
5	import androidx.annotation.StringRes
6	
7	data class animals (
8	@DrawableRes val imageResourceId: Int,
9	@StringRes val name: Int,
10	@StringRes val desc: Int
11)

Table 11 Source Code *animalsDetail.kt*

1	package com.example.bismillahuas
2	
3	import android.os.Bundle
4	import androidx.appcompat.app.AppCompatActivity
5	import
6	com.example.bismillahuas.databinding.ActivityAnimalsDetail
7	Binding
8	
9	class animalsDetail: AppCompatActivity() {
10	private var _binding: ActivityAnimalsDetailBinding? =
11	null
12	private val binding get() = _binding!!
13	
14	companion object {
15	const val EXTRA_IMAGE = "image"
16	const val EXTRA_NAME = "name"
17	const val EXTRA_DESCRIPTION = "description"
18	}
19	
20	override fun onCreate(savedInstanceState: Bundle?) {
21	super.onCreate(savedInstanceState)
22	
23	_binding =
24	ActivityAnimalsDetailBinding.inflate(layoutInflater)
25	val view = binding.root
26	setContentView(view)
27	

28	val img = binding.imgDetail
29	
30	img.setImageResource(intent.getIntExtra(EXTRA_IMAGE, 0))
31	
32	val name = binding.tvName
33	name.text =
34	intent?.getStringExtra(EXTRA_NAME).toString()
35	
36	val desc = binding.tvDesc
37	desc.text =
38	intent?.getStringExtra(EXTRA_DESCRIPTION).toString()
39	
40	}
41	
42	}

Table 12 Source Code animalsViewModel.kt

1	package com.example.bismillahuas
2	
3	import android.content.Context
4	import androidx.lifecycle.LiveData
5	import androidx.lifecycle.MutableLiveData
6	import androidx.lifecycle.ViewModel
7	
8	class animalsViewModel: ViewModel() {
9	private val _name = MutableLiveData<String> ()
10	val name: LiveData<String>
11	get() = _name
12	
13	private val _desc = MutableLiveData<String> ()
14	val desc: LiveData<String>
15	get() = _desc
16	
17	private val _img = MutableLiveData<Int> ()
18	val img: LiveData<Int>
19	get() = _img
20	
21	fun setAnimals(animals: animals, context: Context) {
22	_name.value =
23	context.resources.getString(animals.name)
24	_desc.value =
25	context.resources.getString(animals.desc)
26	_img.value = animals.imageResourceId
27	}
28	
29	}

Table 13 Source Code *mainActivity.kt*

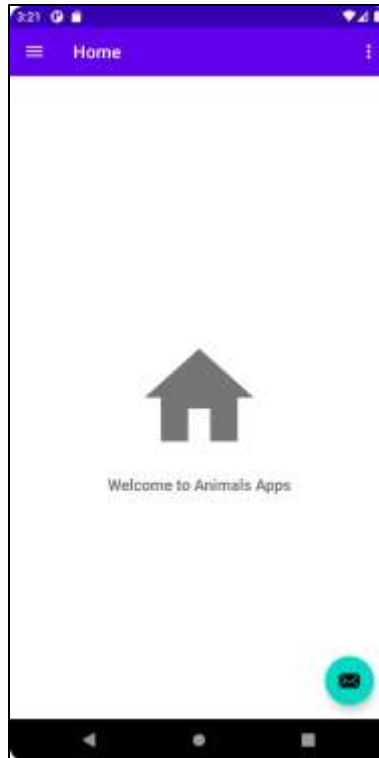
1	package com.example.bismillahuas
2	
3	import android.content.Intent
4	import android.os.Bundle
5	import android.provider.Settings
6	import android.view.Menu
7	import android.view.MenuItem
8	import
9	com.google.android.material.navigation.NavigationView
10	import androidx.navigation.findNavController
11	import androidx.navigation.ui.AppBarConfiguration
12	import androidx.navigation.ui.navigateUp
13	import
14	androidx.navigation.ui.setupActionBarWithNavController
15	import androidx.navigation.ui.setupWithNavController
16	import androidx.drawerlayout.widget.DrawerLayout
17	import androidx.appcompat.app.AppCompatActivity
18	import
19	com.example.bismillahuas.databinding.ActivityMainBinding
20	
21	class MainActivity : AppCompatActivity() {
22	
23	private lateinit var appBarConfiguration:
24	AppBarConfiguration
25	private lateinit var binding: ActivityMainBinding
26	
27	override fun onCreate(savedInstanceState: Bundle?) {
28	super.onCreate(savedInstanceState)
29	
30	binding =
31	ActivityMainBinding.inflate(layoutInflater)
32	setContentView(binding.root)
33	
34	setSupportActionBar(binding.appBarMain.toolbar)
35	
36	val drawerLayout: DrawerLayout =
37	binding.drawerLayout
38	val navView: NavigationView = binding.navView
39	val navController =
40	findNavController(R.id.nav_host_fragment_content_main)
41	// Passing each menu ID as a set of Ids because
42	each
43	// menu should be considered as top level
44	destinations.

```

45         appBarConfiguration = AppBarConfiguration(
46             setOf(
47                 R.id.nav_home, R.id.nav_herbivora,
48                 R.id.nav_karnivora, R.id.nav_omnivora
49             ), drawerLayout
50         )
51         setupActionBarWithNavController(navController,
52         appBarConfiguration)
53         navView.setupWithNavController(navController)
54     }
55
56     override fun onCreateOptionsMenu(menu: Menu): Boolean
57     {
58         // Inflate the menu; this adds items to the action
59         bar if it is present.
60         menuInflater.inflate(R.menu.main, menu)
61         return true
62     }
63
64     override fun onSupportNavigateUp(): Boolean {
65         val navController =
66         findNavController(R.id.nav_host_fragment_content_main)
67         return
68         navController.navigateUp(appBarConfiguration) ||
69         super.onSupportNavigateUp()
70     }
71
72     override fun onOptionsItemSelected(item: MenuItem):
73     Boolean {
74         if (item.itemId == R.id.action_settings) {
75
76         startActivity(Intent(Settings.ACTION_LOCALE_SETTINGS))
77         }
78         return super.onOptionsItemSelected(item)
79     }
80 }

```

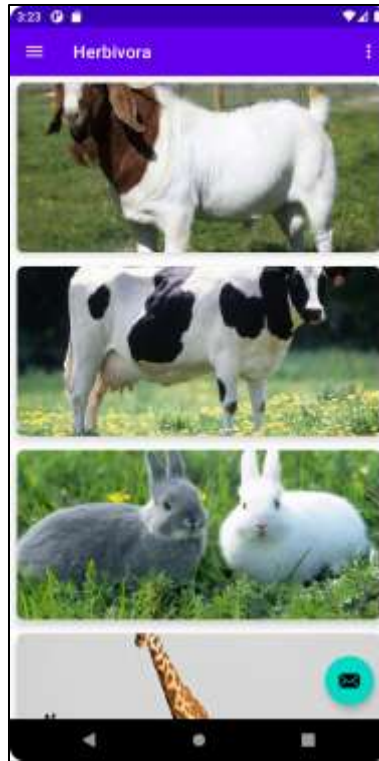
B. Output Program



Gambar 1 Screenshot Tampilan Awal Aplikasi



Gambar 2 Screenshot Tampilan Navigation Drawer



Gambar 3 Screenshot Tampilan Fragment Herbivora



Gambar 4 Screenshot Tampilan Activity Herbivora



Gambar 5 Screenshot Tampilan Fragment Karnivora



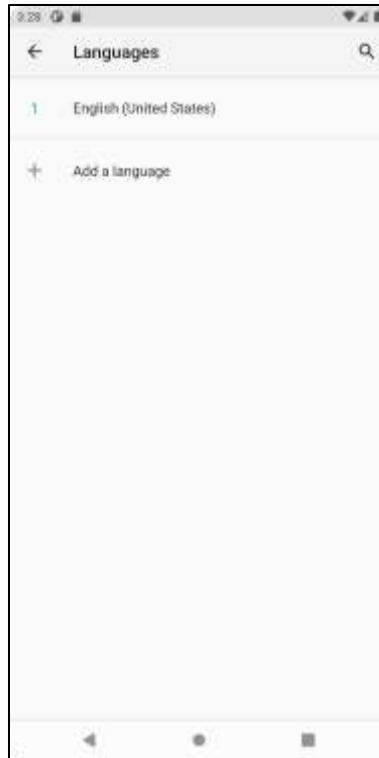
Gambar 6 Screenshot Tampilan Activity Karnivora



Gambar 7 Screenshot Tampilan Fragment Omnivora



Gambar 8 Screenshot Tampilan Activity Omnivora



Gambar 9 Screenshot Tampilan Options Menu

TAUTAN GIT

Berikut adalah tautan untuk source code yang telah dibuat.

<https://github.com/putriridha13/praktikummobile2/tree/master/modul4>