

**TUGAS PENDAHULUAN
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL V
ANTARMUKA PENGGUNA LANJUTAN**



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**PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA**

TELKOM UNIVERSITY PURWOKERTO

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TUGAS PENDAHULUAN

A. SOAL NOMOR 1

a) Pada tugas pendahuluan ini, dari aplikasi Rekomendasi Wisata yang telah kalian buat pada Unguided Modul 4 (Antarmuka Pengguna), ubahlah menjadi file APK dengan cara build APK. Kemudian, upload file APK tersebut ke dalam folder **5_Antarmuka_Pengguna_Lanjutan** pada **Submodul TP**.

b) Panduan Build APK:

- Buka terminal pada proyek Flutter yang telah kalian buat.
- Jalankan perintah berikut untuk membangun file APK: **flutter build apk --release**

```
PS D:\KULIAH\PPB\Asprak\Pertemuan 4\prak_4> flutter build apk --release
```

- File APK yang dihasilkan akan berada di direktori:

build/app/outputs/flutter-apk/app-release.apk

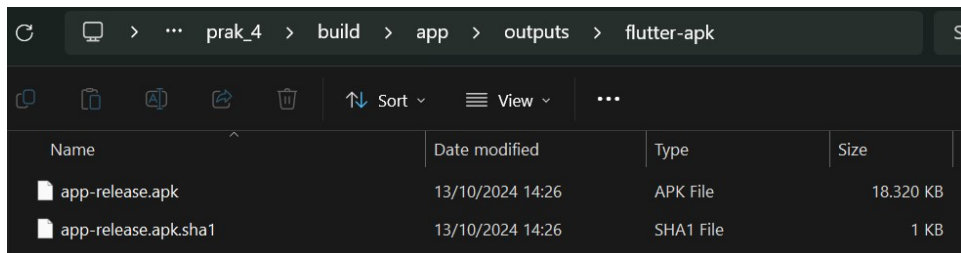
```
Running Gradle task 'assembleRelease'...  
✓ Built build/app/outputs/flutter-apk/app-release.apk (17.9MB)
```

- Referensi tutorial <https://www.barajacoding.or.id/cara-merelease-aplikasiflutter-pada-vscode/>

c) **Upload hanya file APK** tersebut ke dalam folder yang telah ditentukan pada platform pengumpulan tugas.

d) Pastikan file APK sudah benar-benar siap untuk diunggah dan berfungsi dengan baik di perangkat Android

Contoh Output



Name	Date modified	Type	Size
app-release.apk	13/10/2024 14:26	APK File	18.320 KB
app-release.apk.sha1	13/10/2024 14:26	SHA1 File	1 KB

Source code

```
import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Rekomendasi Wisata',
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(
          seedColor: const Color.fromARGB(255, 97, 61, 176),
        ),
        useMaterial3: true,
      ),
      home: const MyHomePage(title: 'Rekomendasi Wisata'),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});
  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  final List<Map<String, String>> wisataList = [
    {
      "title": "Pantai Indah Widarapayung",
      "image":
        "https://disporapar.cilacapkab.go.id/wp-content/uploads/2020/09/Samudera",
      "description":
        "Merupakan objek wisata pantai dengan luas sekitar 500 hektar terletak d
```

```
},
{
  "title": "Telaga Sunyi",
  "image":
```

```
"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAQABAAD/2wCEAAkGBxMTEhUTExMWFhUWGBobGB
AAAAAADBAIFBgEAB//EAEMQAAIBAgQEBAIIBAQBEGMAAAECEQMhABIXQQQiUWEFE3GBMpEGQlKhscHR8B
fMXaxcyDJlhte/NFzuYwnxeS/IbRBBGYkcm+gki95tpIjInaTRPh7EaXiNQNmDQQCuYGD0w66AadNccapn
ETuJ6a40T8easGQwdCQwjla6gBbbQLaQds2KHj0NL0cwYpNiVBsJUj3iBJ0AcJLLTnVWtB0DCZvoB19MK4
zM2UaDoLHD4sLhKl0BRoDwNSXkm+YxPt+XT2wPxSqMUBCTmLGTyQcDfV11PTQXwHgWh6YN5J/GMQr1AyU+
1Si2RauZZEhpcjTVYhWPXUiMJDIPr7JuL9gaPDsCGhsoeM4m7RoFI1E79Y3x5PBy2Zs4Z2JYs3KoBPzLXB
S1ZqhJCLuTmYxbcAWImP7YL9H+KkBUS4UhVBHMDy3I2v10+KbjeMZrEmASVfGj1mT73wn50RSy18R+kmbI
LDRYIK2Iva+3fGh8SZaYwxAy2AEk6X5djY9bbYFxzNUo5l+JH+EzaVmco9CN40gvinG1Y08aaKVQDaoGI1
02WVdlp4pxzKXkcmfmW/wAJENYWBm67QeuKXiVBLggyiLLPL0ZTIJ2YGQPTGw8No0yGpuIU5JMgGd8xJ0U
Ww1XLuYc2Vpn4Rp1jf+/wA8dl8idfjRzxtsrzhvguWZUpa0xqBYiD+74nQ4PICU0U6MQDm+Xv1+c4vKNS
GuD4Y7Y2KCJ0F8K4cMiUd366769caDwbw1qtQIGLgdfv19MD8G8DqV6gFISTAY3EKd50t/tjbVTR4GiyU2
RM7w/CoxFLNBmgnubCJFLAnrBM2jFn4IqKStoklmCBJJkgbZjEc19dsBPBWfEhlnNa/MM14N4kieg0LGnQ
b20w9wqKGyQsY8xgEEA9SNSZAPvcYpJNdkmhKtwYYLVJ5gwMiQtjBA36/j2zPhgYVGCgym0iPrAEmfU/LG
YfZlCeyc240lrn00I1qhAsV6RvG8CT32w2R8lu3QeJGjJMEwqkTG/XY20t64n5MG4BDaEdtB6ST+5wLTqM
qMUgoBypuGYyy7WEAysXJPWDeNMWdPwwMpAJpz8RBMKAaQDAHcH2vikdq0hk2Y36SeAVP4irUVcy1CSCI1
KTWzroteJ8E40qCtSitNkJJNMBSRJEkgCxjQ9R64ZStRSmUo0oBHKmXLPdiDMdzc4zvFeLTPgu5kiwGR
ptEW9cJ+N+J0qVGKysRaMshpP2Tb8RGMUY88zs0UGZqikZwL65eu51jvGJNwysRbfVwGm4k9dC0hx08T4
nfTSx7i0oJkDviuekrDPLBBAQKeZmZSbSpvEbbDGWqfT0u1RQGINPwsFNjaWMXN+seuNHUrxSLZ1DAERDC
mIgjUWv6Yd5U4170cq08Yq0xU57mVm6kCJICiY0YDMjGaeqCUWixRyynWFkFTBWLFPnu1wLYtVdVawGUo
CMoBYZtrR69vT8sU6lAzFnZSQc4YraABzZuUnTubzvioPEV0FSpCFTcMyw4B6KblcATr6zcTytyuxIzaZr
GsQZ5ZulyQBbTYm3fDXAVnJIOYICoEiLwQb10Avt8keKyip5tMBVMGLgTLBgX0N/QRjQ8DX86oiEku5Yg
r0sMb6WMC4MaYhgw/w1b7NMpWtGw8B8Wo00U5iCLSTE5iSTAEZQ0AWiW1EjHfEvpCKrxVq0gJBACVNIkEk
yBfSZ20x0LzPNNQSwIKzcpEGFB0UKQM350uCF/kjwg0awrLenUYx1DCDB7bg+o2wDwfxmjTqGq5Ziwp8uw
zTZgSM9iwB1UrzGwM36HFV479NK1UZabHVNuUMDoJPMZFyR7TbBjhjJWg2ns1fifh9Ra75DUyoBYQRzGSea
/K+sb3xaS+xovY9wng7VvNZiyxY3gEGZBn1BjvhvgqjLTqK5LJlhmLFssqRKHgSDGkwAB1tg3B0m4aCUFV
JtGNX90KxzQ0U9Z2+fXb3xj2rstQFGIJEe0TYEa98amJ9IZkuLo+ZQ0/C0dCZuw121G31dsJ8Jw1RfhYgb
sLRWBiCCNQZ/fXGm8V8QK0kQVM+cS6Mqk0zyk5WiQJtAtAjbGeyCb3G/fEnb0jaNtvY4q1bQH208RVYISH
EcVjqaa02jcfSwmp4c1MyvkZioLgBs8qGg3dgcx1E+lJgGqYlW4uo6oj0SqAhATZQdY6YBimPHxVHJfLVq
sdI1J/tGPnS8PJB/cY3H0R0C3MEEW06mfy6k9cPhSuwL5DfT0jMrRJInXQC8np0uMk/ELnaYJAAtIBM21i5
2KRvDTUzZYLR09x0t+GH+04Zr66EyTqJ11106/jhKrVeIC6XIEN0l7QY7YhXTRV9ffxPCLF5tT2tHwDz27
AaPwg/P8ALFpS8M04wwvAraRG04k35UfRQeTf4R7T+uGaHAK7D30Lr+DQdMSzAb6xtp446kT/AMVZZ/Rrg
bYwVpN80aRft0Ft8ScUTlnK+v8AR5Z0UyNfba4wD/BB1H9Qxa1aqqRaJ0nTb5fjhbzP3bAM7yNm08D4Wlx
BqMWgACwsBoBGNcMUR2Ko72Lu8mceC4KLA4apcPjWohlkSFadKcNUuGGLDh0CB2xZ0uBAGGxRRox5fKSKp
Gwwlw6QRI+K40vtl9NzP3YdrTg0zpIMHf29ccjZB0ij41Jbmm1xGm06jp6xiv8u5yuQeggnTYRmOmLKpAJ
uNbiiJv0GFpToPm3/fwlBcYm+4/xfhXKs/00QqqDKj64NrmzXEBDuPnPiiIoNXqInmeUCAMUZ2sIMZmFibzP
1A9hgKRCUm2DUjpgk4LV40jUq0xMYAQfXbY/fhrEaJikD0wNqN4A0kwATbr6Ym2mh3nUegtpiKUxqSN9Zv
yMTqiYi51JJAI11+/bf3xGjRKrcajWLSdQZ3gky3++DveCIUbNE9evbP54Tmb6oqeLojWDGpkiJ13Mj31
oM6RCcqJn16HXDHk0/sUP6z/ANnHqqBic4p2AhQ6jYm30CDJHL+xCKXQf1H/AFYFj8im4aiIsrHsYj8gP
aA+lhN/vxcfr7xPhqFNiDme02uf5Q0n3a4q+J+kNZ2JkQdEgED2YGT3xmhknKVLpfJ6nmeJDBGs6ay0tfH
paL2Ujuc2vufScGewMVsvhwSyS0iu8pwwAYyT0yr2GYE/fpGH0CdLMC56qCTa8kgE9rde+JLRUcoZyTuBC
XDn8IX5oRjLGUEJcCLhCDr8hB64mpcKCEJiTfIqHUCFUKNB/Xvi9ozvk+k/5C1Kln0WAok+ZztEzJ80Bvt
QDm/EHDv8JkDQ0GdAQNo0Ntex0x2nwqwrEAEiSfw/LYTGEhGjNkaoXybXW++ntJ77ziL0o0mCvQJ0oA20n
IE3UdIFvwHX9jHeGaIl2gMTsUAI+rMqX7+muIU1LHKqEzMBRjG3m15jqfliU0oqkZ88p5Jc5u2/kJTkagan
UN00gQ1yNAB1+QviCVczILM5sxctsN83zsdhbr5kYEWqTNgqGPbWet/utjPGGTGxBizgKWVmGo0mU6/E0g
zNINykhBMTaSRm0g69z0DcPXUkABjMPIvmBgJ2yvTAgXue/uueGeoWy1eUweSGNwJs5JU/Cb0Tf+Wz/Dup
8AJq/6sPyM0vGV6K+o0jbSJ111m2vb1wNqNpIAG38x29sFQEETGb5/v1tj1SoAftHebkz0G3yxKzymkD4j
```

ZEACFB9IgSbb7nW+DtK8rhgp1GaCYJidQIM2jBFZWJLSuUyF5c+UAWUZjmHSfTAODqsnwwpNpMwmb3kD1w
1xF4JXZ60PqhZ18pW82jVCsbnlgCbGCBKSB213GGA6qM/+f5ZABP15R0Atyw08+2DcZWosy0ytbNywHyxA
QSCTmVRq0iZJve3rbEqyUqKhstRKjDLmemCW6xluGvANtb4jS4Wu0kshpvGwhul1bm2tpI7YpHLGQzSaPM
qgRy7EagxEx120pxlUWls1po74WCFieaTHww0kmNB1A05Re1tMd8jiP+G3/wAk47wy+atiQUsFGSQq6EEa
/L9DhjguEcgFAZJsCLGxJ5mgRA+W+0TGUA08PWIYC7M0Y20Y2Gi2IEaki3LvAx0cYSADfLvPNBuUB0lzcq
sNo198PcOKZ5WSoj6eYzWBG1519p6YF4VxSsHUMlMyvJUMo06k5+ZmgDQjQYPSCk5KNQKTIz00Yo+pK3J
Iwd6dGLB+MKS3tsQ0usWnthzxGo2Q1K1SoBIkUmHMLAR1At2MkdcTLGUnfX7GhfZXVfEWEAqFKzKxYWF4q
T9a/q0gVLxFCoLmojEQoBULEsEzEWF41xzJLXLRfnsAIUmLyeQkajrtbpgQ5gMyLmJslXyzlnoJzL8p7a4
n9IwkkpbQ1tFQIIInSNzOnTvhXzRERa+br0AnYC3v8ALB0BXU2nU/hHpGFq1URAAJbe9tLiftfGbmjwWiVb
BEZlgs0XDBZMG+570SobjQTwhKpMIwe85cxy/DEs4E5RCDy+46HEvE0DqsUUQf8tQXvyIPta6KCTAm3viN
Di1SNZI3v6aDbHm8Qqz5YpBWfoAJZYvrpHTUfjibVKvETSpCmlFWGkaEL0G/XS0uJU/Dn4f4F84E3zEKyn
L66iJEbYEoRnClqlVZAaHeFIg2yvo2+sWtGF3CXX/AAVTtFiaqELU8nJ/KTLMtSjGUgbiT6Tgb80tgFlc
IPa8iwxI02EEoKqbbqoAKyNQREEQ0nxAjXDHLZpyyFic63IM6EG9/TtInLGy/zC5eJyJrSDYgwbmCRP54b
AsDb30G9vvx6lTzXklrkQD2jT0/cXjUpE3C6mBvJvv+9MYZxvo8Vx+BjieJpJemHzzIzZCABI6XMfrhSke
kz06yCIAUqIFxMa4rJtsotk1NQ8S2Ymk2a4AJYgQVREN2EAQDaNdMWfE8cwq/ASVcCnTESY+FqkwVdwnWT
VRuTaDTSOUK9XKc1RKSzYqJl3ZiRzbCY7kG9jiPGeGV2IGcsPtIxS53YSQVEfVE7bY7wFRaxZ08pqUZBBM
vMby+/FnKRXRLIENI5T/zTEG1jBvF8L0BSRQquQAZyhXJifssTHbbBa59jIbp8DTN6dZwYA0VgD6kEa/vf
WzM0b013xyjUDXUTeW2+YI1+/TC3AFCWRaTqv2ogQJESWk6dP1x3xJCYWZXfBAANhrIabyemKRbkq062GZ
oAyidpkjYbYd/iaa+WKYlyQwZihVRJgBfhQzHxHvocLFivDsRYswB9Ia2J+EKMzncUzHb/MUD7if2MRg7P
pFALXia9cBDGRRYEhYCYbaCJvp92JeDcm9fiMzM0BpaoJm3Q/h29M0KgXhuIcAZv0KTAAnKPq9sXH0aM0AD
SesjrhmSVYK6PmEa2II2PQ48rXHv8AhiXlHLKAtwbWuddPTCKN0wN6F62YnmClefp/aMEq0gwhLEDQbju
YGmvXDKli0lcxCmdbzvcx1NpPTChiq5WULYEG3/MLDo0wtgnEUwKKuBDQt/QSLaT3xkV2aUyHF8JHMLRhG

"description":

"Salah satu wisata alam di sekitar Baturraden yang sampai saat ini masih
mata air Gunung Slamet. Bila kita menyentuh airnya akan terasa dingin menyegarkan.

},

];

@override

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      backgroundColor: Theme.of(context).colorScheme.inversePrimary,  
      title: Text(widget.title),  
      centerTitle: true,  
    ),  
    body: ListView.builder(  
      itemCount: wisataList.length,  
      itemBuilder: (context, index) {  
        final wisata = wisataList[index];  
        return Card(  
          margin: const EdgeInsets.all(16.0),  
          child: Column(  
            crossAxisAlignment: CrossAxisAlignment.start,  
            children: [  
              Text(  
                wisata["title"]!,  
                style: const TextStyle(  
                  fontWeight: FontWeight.bold,  
                  fontSize: 25,                ],
```

```

    ),
  ),
  Image.network(
    wisata["image"]!,
    width: 300,
  ),
  Padding(
    padding: const EdgeInsets.all(16.0),
    child: Text(
      wisata["description"]!,
      textAlign: TextAlign.center,
      style: const TextStyle(
        fontSize: 16,
      ),
    ),
  ),
  const SizedBox(height: 10),
  ElevatedButton(
    onPressed: () {},
    child: const Text('Kunjungi Sekarang'),
  ),
],
),
);
},
),
);
}
}

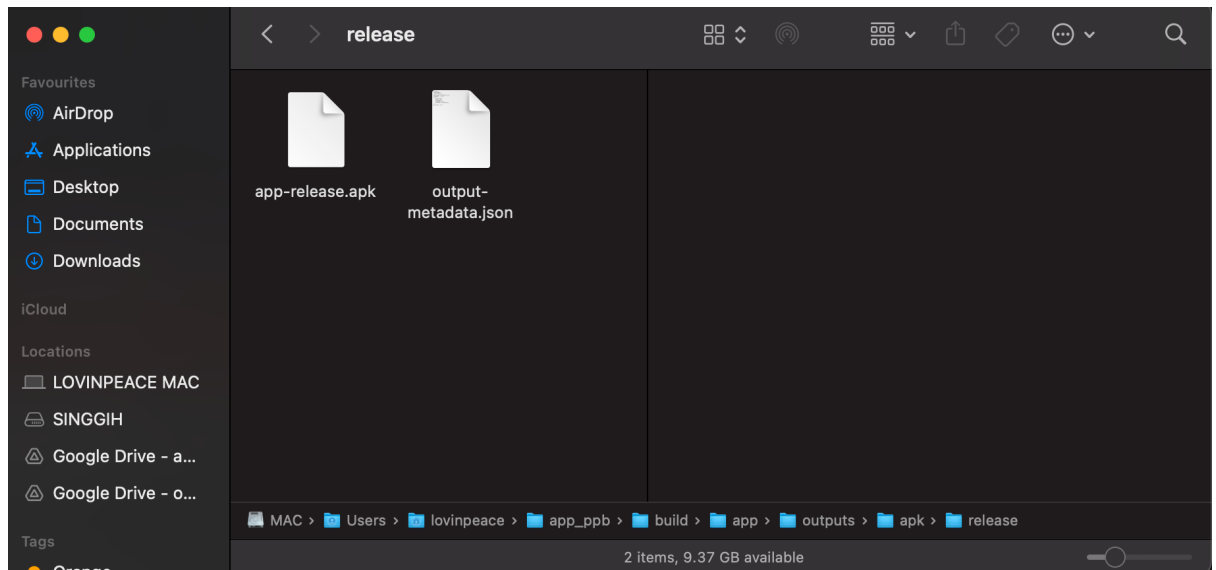
```

Screenshot Output

```

Font asset MaterialIcons-Regular.otf was tree shaken, reducing it from 1049104
to 1324 bytes (99.9% reduction). Tree-shaking can be disabled by providing the
--no-tree-shake-icons flag when building your app.
Running Gradle task 'assembleRelease'... 1527.3s
✓ Built build/app/outputs/flutter-apk/app-release.apk (19.6MB)

```



Deskripsi Program

Deskripsi Program Rekomendasi Wisata Banyumas

Program ini adalah aplikasi mobile yang menampilkan rekomendasi objek wisata menarik di Banyumas. Dengan antarmuka yang sederhana dan intuitif, pengguna dapat menjelajahi berbagai destinasi wisata, lengkap dengan gambar dan deskripsi singkat.

Fitur Utama:

Daftar Wisata: Menampilkan tempat wisata seperti Pantai Indah Widarapayung dan Telaga Sunyi.

Gambar dan Deskripsi: Setiap tempat dilengkapi dengan gambar menarik dan deskripsi yang informatif untuk membantu pengguna memahami keunikan lokasi.

Desain Responsif: Menggunakan Flutter untuk memastikan tampilan yang menarik di berbagai ukuran layar.

Aplikasi ini bertujuan untuk meningkatkan kesadaran dan minat wisatawan terhadap keindahan alam dan budaya Banyumas.