

**LAPORAN PRAKTIKUM
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL 4
ANTARMUKA PENGGUNA**



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**PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
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PRAKTIKUM

A. GUIDED

1. Perkenalan widget

Pada dasarnya semua tampilan di dalam Flutter adalah komponen yang bernama Widget, dan akan dipecah menjadi komponen-komponen yang kecil serta memiliki environment sendiri untuk mengelola dirinya.

Jenis-jenis Layout pada Flutter

1) Container

Adalah widget dasar yang digunakan untuk menentukan batasan atau constraints dari child widget-nya. Container dapat diisi dengan berbagai jenis child widget seperti : text, image, atau bahkan layout widget lainnya.

2) Row dan Column

Adalah layout widget yang digunakan untuk mengatur child widget secara horizontal atau vertical.

3) Stack

Adalah layout widget yang digunakan untuk menumpuk beberapa widget di atau satu sama lain.

4) Expanded dan Flexible

Adalah widget yang digunakan untuk mengatur bagaimana child widget mengisi ruang yang tersedia. Expanded akan memberikan semua ruang yang tersedia ke child widget, sedangkan Flexible akan memberikan sejumlah ruang yang dapat berubah-ubah sesuai dengan kondisi yang ada.

5) ListView

Adalah widget yang digunakan untuk menampilkan daftar item yang dapat di-scroll.

6) GridView

Adalah widget yang digunakan untuk menampilkan daftar item dalam bentuk grid.

7) Wrap

Adalah widget yang digunakan untuk menampilkan child widget dalam baris atau kolom. Jika child widget melebihi lebar atau tinggi dari wrap, maka widget tersebut akan dibungkus ke baris atau kolom berikutnya.

8) Table

Adalah widget yang digunakan untuk menampilkan data dalam bentuk tabel. TableRow untuk menambahkan baris, dan TableCell untuk menambahkan kolom.

Main.dart

```
1  import 'package:flutter/material.dart';
2  import 'package:praktikum4/gridview.dart';
3  import 'package:praktikum4/listview.dart';
4  import 'package:praktikum4/stack.dart';
5
6  void main() {
7    runApp(const MyApp());
8  }
9
10 class MyApp extends StatelessWidget {
11   const MyApp({super.key});
12
13   // This widget is the root of your application.
14   @override
15   Widget build(BuildContext context) {
16     return MaterialApp(
17       title: 'Flutter Demo',
18       theme: ThemeData(
19         // This is the theme of your application.
20         //
21         // TRY THIS: Try running your application with "flutter run". You'll see
22         // the application has a purple toolbar. Then, without quitting the app,
23         // try changing the seedColor in the colorScheme below to Colors.green
24         // and then invoke "hot reload" (save your changes or press the "hot
25         // reload" button in a Flutter-supported IDE, or press "r" if you used
26         // the command line to start the app).
27         //
28         // Notice that the counter didn't reset back to zero; the application
29         // state is not lost during the reload. To reset the state, use hot
30         // restart instead.
31         //
32         // This works for code too, not just values: Most code changes can be
33         // tested with just a hot reload.
34         colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
35         useMaterial3: true,
36       ),
37       home: StackScreen(),
38
39       // home: ListViewScreen(),
40
41       // home : MyWidget(),
42     );
43   }
44 }
45
```

2. Gridview Sourcecode

```

1  import 'package:flutter/material.dart';
2
3  class MyWidget extends StatefulWidget {
4    const MyWidget({super.key});
5
6    @override
7    State<MyWidget> createState() => _MyWidgetState();
8  }
9
10 class _MyWidgetState extends State<MyWidget> {
11   @override
12   Widget build(BuildContext context) {
13     return Scaffold(
14       appBar: AppBar(
15         title: Text('Praktikum4'),
16         backgroundColor: Colors.blueAccent,
17       ),
18       body: GridView.count(
19         crossAxisCount: 2,
20         mainAxisSpacing: 10,
21         crossAxisSpacing: 10,
22         padding: EdgeInsets.all(12),
23         children: [
24           Container(
25             padding: EdgeInsets.all(10),
26             child: Row(
27               children: [
28                 Text('Gridview 1'),
29                 Icon(Icons.add),
30               ],
31             ),
32             color: Colors.red,
33           ),
34           Container(
35             padding: EdgeInsets.all(10),
36             child: Column(
37               children: [
38                 Text('Gridview 2'),
39                 Icon(Icons.account_circle_sharp),
40                 Icon(
41                   Icons.add_location_alt,
42                 ),
43               ],
44             ),
45             color: Colors.blueAccent,
46           ),
47           Container(
48             padding: EdgeInsets.all(10),
49             child: Text('Gridview 3'),
50             color: Colors.greenAccent,
51           ),
52           Container(
53             padding: EdgeInsets.all(10),
54             child: Text('Gridview 4'),
55             color: Colors.lightGreenAccent,
56           ),
57           Container(
58             padding: EdgeInsets.all(10),
59             child: Text('Gridview 5'),
60             color: Colors.yellowAccent,
61           ),
62           Container(
63             padding: EdgeInsets.all(10),
64             child: Text('Gridview 6'),
65             color: Colors.blueGrey,
66           ),
67         ],
68       ),
69     );
70   }
71 }
72

```

Screenshoot Output



Deskripsi Program

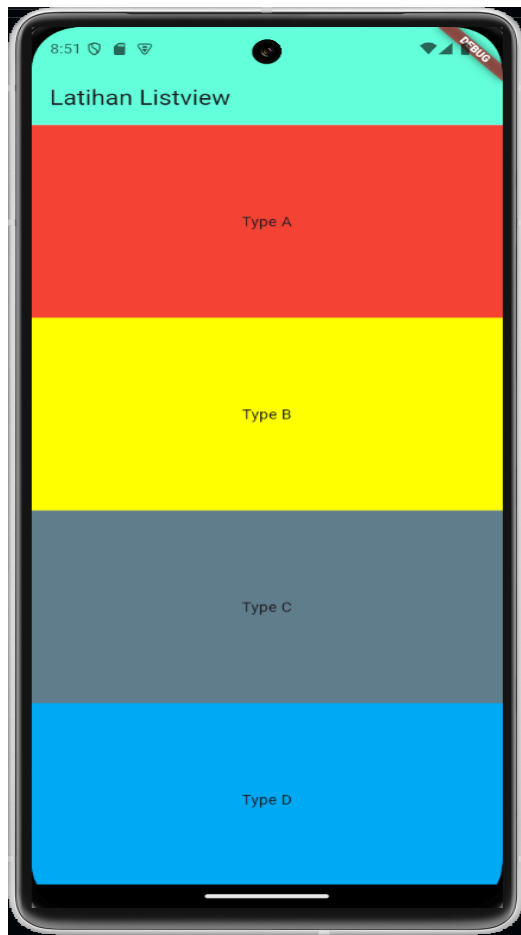
GridView merupakan widget yang serupa dengan Array 2D dalam bahasa pemrograman apapun. Widget tersebut digunakan ketika harus menampilkan sesuatu pada Grid tersebut, seperti menampilkan images, text, icons, dll.

3. Listview

Sourcecode

```
1  import 'package:flutter/material.dart';
2
3  class ListViewScreen extends StatelessWidget {
4    const ListViewScreen({super.key});
5
6    @override
7    Widget build(BuildContext context) {
8      return Scaffold(
9        appBar: AppBar(
10          title: Text('Latihan ListView'),
11          backgroundColor: Colors.tealAccent,
12        ),
13        body: ListView(
14          // scrollDirection: Axis.horizontal,
15          children: [
16            Container(
17              height: 200,
18              width: 200,
19              color: Colors.red,
20              child: Center(child: Text('Type A')),
21            ),
22            Container(
23              height: 200,
24              width: 200,
25              color: Colors.yellowAccent,
26              child: Center(child: Text('Type B')),
27            ),
28            Container(
29              height: 200,
30              width: 200,
31              color: Colors.blueGrey,
32              child: Center(child: Text('Type C')),
33            ),
34            Container(
35              height: 200,
36              width: 200,
37              color: Colors.lightBlue,
38              child: Center(child: Text('Type D')),
39            ),
40          ],
41        ),
42      );
43    }
44  }
```

Screenshoot Output



Deskripsi Program

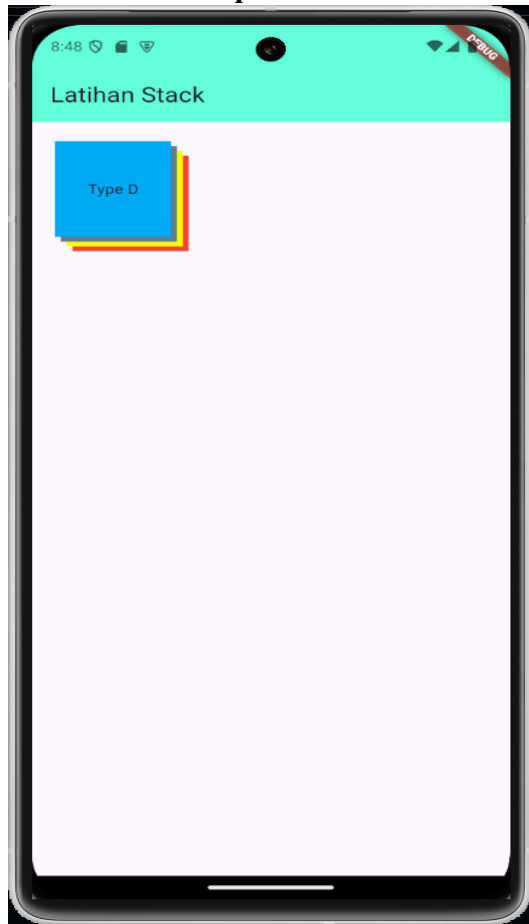
ListView merupakan widget scroll yang paling umum digunakan. Widget ini dapat menampilkan lebih dari satu komponen atau widget melalui variabel children. Pada pembahasan kali ini akan menggunakan ListView default dengan variabel children pada widget tersebut `List<Widget>`. Cara penggunaan ListView ini dengan memasukkan widget yang ingin disusun sebagai children dari ListView.

4. Stack

Sourcecode

```
1  import 'package:flutter/material.dart';
2
3  class StackScreen extends StatelessWidget {
4    const StackScreen({super.key});
5
6    @override
7    Widget build(BuildContext context) {
8      return Scaffold(
9        appBar: AppBar(
10          title: Text('Latihan Stack'),
11          backgroundColor: Colors.tealAccent,
12        ),
13        body: Stack(
14          alignment: Alignment.bottomRight,
15          children: [
16            Container(
17              margin: EdgeInsets.all(5),
18              height: 100,
19              width: 100,
20              color: Colors.red,
21              child: Center(child: Text('Type A')),
22            ),
23            Container(
24              margin: EdgeInsets.all(10),
25              height: 100,
26              width: 100,
27              color: Colors.yellowAccent,
28              child: Center(child: Text('Type B')),
29            ),
30            Container(
31              margin: EdgeInsets.all(15),
32              height: 100,
33              width: 100,
34              color: Colors.blueGrey,
35              child: Center(child: Text('Type C')),
36            ),
37            Container(
38              margin: EdgeInsets.all(20),
39              height: 100,
40              width: 100,
41              color: Colors.lightBlue,
42              child: Center(child: Text('Type D')),
43            ),
44          ],
45        ),
46      );
47    }
48  }
49
```


Screenshoot Output



Deskripsi Program

Widget ini merupakan widget yang saling tumpang tindih terhadap widget lain. Seperti image dan text yang saling bertumpuk, atau overlay yang terdapat button dan widget lainnya. Dengan menggunakan Stack dapat memposisikan widget satu sama lain dan bertumpukan antar widget.

B. UNGUIDED

1. Soal Studi Case

Modifikasi project TP 04 (Tugas Pendahuluan) untuk Antarmuka Pengguna, yang mana di dalamnya terdapat ListView, untuk merekomendasikan beberapa tempat wisata yang ada di Banyumas disertai foto, nama wisata, dan deskripsi singkat! (buatlah se kreatif mungkin).

Sourcecode

Main.dart



```
1  import 'package:flutter/material.dart';
2  import 'package:tp_04/listview.dart';
3
4  void main() {
5    runApp(const MyApp());
6  }
7
8  class MyApp extends StatelessWidget {
9    const MyApp({super.key});
10
11    @override
12    Widget build(BuildContext context) {
13      return MaterialApp(
14        title: 'Rekomendasi Wisata',
15        theme: ThemeData(
16          colorScheme: ColorScheme.fromSeed(
17            seedColor: const Color.fromARGB(255, 248, 0, 0)),
18          useMaterial3: true,
19          fontFamily: 'Arial',
20        ),
21        home: listviewscreen(),
22      );
23    }
24  }
25
```

Listview.dart

```
1 import 'package:auto_navigator.dart';
2
3 class Wisata {
4   final String nama;
5   final String url;
6   final String deskripsi;
7
8   Wisata({required this.nama, required this.url, required this.deskripsi});
9 }
10
11 class ListviewScreen extends StatelessWidget {
12   final List<Wisata> wisataList;
13
14   ListviewScreen({required this.wisataList});
15
16   @override
17   Widget build(BuildContext context) {
18     return Scaffold(
19       appBar: AppBar(
20         title: Text('Wisata'),
21       ),
22       body: ListView.builder(
23         itemCount: wisataList.length,
24         itemBuilder: (context, index) {
25           return Card(
26             margin: EdgeInsets.all(10),
27             child: ListTile(
28               title: Text(wisataList[index].nama),
29               subtitle: Text(wisataList[index].deskripsi),
30               trailing: Text(wisataList[index].url),
31             ),
32           );
33         },
34       ),
35     );
36   }
37 }
38
39 class WisataDetailScreen extends StatelessWidget {
40   final String url;
41
42   WisataDetailScreen({required this.url});
43
44   @override
45   Widget build(BuildContext context) {
46     return Scaffold(
47       appBar: AppBar(
48         title: Text('Detail Wisata'),
49       ),
50       body: Center(
51         child: Text('Detail Wisata: $url'),
52       ),
53     );
54   }
55 }
56
57 class WisataFormScreen extends StatelessWidget {
58   final String url;
59
60   WisataFormScreen({required this.url});
61
62   @override
63   Widget build(BuildContext context) {
64     return Scaffold(
65       appBar: AppBar(
66         title: Text('Form Wisata'),
67       ),
68       body: Center(
69         child: Text('Form Wisata: $url'),
70       ),
71     );
72   }
73 }
74
75 class WisataMapScreen extends StatelessWidget {
76   final String url;
77
78   WisataMapScreen({required this.url});
79
80   @override
81   Widget build(BuildContext context) {
82     return Scaffold(
83       appBar: AppBar(
84         title: Text('Map Wisata'),
85       ),
86       body: Center(
87         child: Text('Map Wisata: $url'),
88       ),
89     );
90   }
91 }
92
93 class WisataGalleryScreen extends StatelessWidget {
94   final String url;
95
96   WisataGalleryScreen({required this.url});
97
98   @override
99   Widget build(BuildContext context) {
100     return Scaffold(
101       appBar: AppBar(
102         title: Text('Gallery Wisata'),
103       ),
104       body: Center(
105         child: Text('Gallery Wisata: $url'),
106       ),
107     );
108   }
109 }
110
111 class WisataRecommendScreen extends StatelessWidget {
112   final String url;
113
114   WisataRecommendScreen({required this.url});
115
116   @override
117   Widget build(BuildContext context) {
118     return Scaffold(
119       appBar: AppBar(
120         title: Text('Recommend Wisata'),
121       ),
122       body: Center(
123         child: Text('Recommend Wisata: $url'),
124       ),
125     );
126   }
127 }
128
129 class WisataFavoriteScreen extends StatelessWidget {
130   final String url;
131
132   WisataFavoriteScreen({required this.url});
133
134   @override
135   Widget build(BuildContext context) {
136     return Scaffold(
137       appBar: AppBar(
138         title: Text('Favorite Wisata'),
139       ),
140       body: Center(
141         child: Text('Favorite Wisata: $url'),
142       ),
143     );
144   }
145 }
146
147 class WisataShareScreen extends StatelessWidget {
148   final String url;
149
150   WisataShareScreen({required this.url});
151
152   @override
153   Widget build(BuildContext context) {
154     return Scaffold(
155       appBar: AppBar(
156         title: Text('Share Wisata'),
157       ),
158       body: Center(
159         child: Text('Share Wisata: $url'),
160       ),
161     );
162   }
163 }
164
165 class WisataSearchScreen extends StatelessWidget {
166   final String url;
167
168   WisataSearchScreen({required this.url});
169
170   @override
171   Widget build(BuildContext context) {
172     return Scaffold(
173       appBar: AppBar(
174         title: Text('Search Wisata'),
175       ),
176       body: Center(
177         child: Text('Search Wisata: $url'),
178       ),
179     );
180   }
181 }
182
183 class WisataFilterScreen extends StatelessWidget {
184   final String url;
185
186   WisataFilterScreen({required this.url});
187
188   @override
189   Widget build(BuildContext context) {
190     return Scaffold(
191       appBar: AppBar(
192         title: Text('Filter Wisata'),
193       ),
194       body: Center(
195         child: Text('Filter Wisata: $url'),
196       ),
197     );
198   }
199 }
200
201 class WisataSortScreen extends StatelessWidget {
202   final String url;
203
204   WisataSortScreen({required this.url});
205
206   @override
207   Widget build(BuildContext context) {
208     return Scaffold(
209       appBar: AppBar(
210         title: Text('Sort Wisata'),
211       ),
212       body: Center(
213         child: Text('Sort Wisata: $url'),
214       ),
215     );
216   }
217 }
218
219 class WisataRefreshScreen extends StatelessWidget {
220   final String url;
221
222   WisataRefreshScreen({required this.url});
223
224   @override
225   Widget build(BuildContext context) {
226     return Scaffold(
227       appBar: AppBar(
228         title: Text('Refresh Wisata'),
229       ),
230       body: Center(
231         child: Text('Refresh Wisata: $url'),
232       ),
233     );
234   }
235 }
236
237 class WisataResetScreen extends StatelessWidget {
238   final String url;
239
240   WisataResetScreen({required this.url});
241
242   @override
243   Widget build(BuildContext context) {
244     return Scaffold(
245       appBar: AppBar(
246         title: Text('Reset Wisata'),
247       ),
248       body: Center(
249         child: Text('Reset Wisata: $url'),
250       ),
251     );
252   }
253 }
254
255 class WisataLogoutScreen extends StatelessWidget {
256   final String url;
257
258   WisataLogoutScreen({required this.url});
259
260   @override
261   Widget build(BuildContext context) {
262     return Scaffold(
263       appBar: AppBar(
264         title: Text('Logout Wisata'),
265       ),
266       body: Center(
267         child: Text('Logout Wisata: $url'),
268       ),
269     );
270   }
271 }
272
273 class WisataLoginScreen extends StatelessWidget {
274   final String url;
275
276   WisataLoginScreen({required this.url});
277
278   @override
279   Widget build(BuildContext context) {
280     return Scaffold(
281       appBar: AppBar(
282         title: Text('Login Wisata'),
283       ),
284       body: Center(
285         child: Text('Login Wisata: $url'),
286       ),
287     );
288   }
289 }
290
291 class WisataRegisterScreen extends StatelessWidget {
292   final String url;
293
294   WisataRegisterScreen({required this.url});
295
296   @override
297   Widget build(BuildContext context) {
298     return Scaffold(
299       appBar: AppBar(
300         title: Text('Register Wisata'),
301       ),
302       body: Center(
303         child: Text('Register Wisata: $url'),
304       ),
305     );
306   }
307 }
308
309 class WisataForgotScreen extends StatelessWidget {
310   final String url;
311
312   WisataForgotScreen({required this.url});
313
314   @override
315   Widget build(BuildContext context) {
316     return Scaffold(
317       appBar: AppBar(
318         title: Text('Forgot Wisata'),
319       ),
320       body: Center(
321         child: Text('Forgot Wisata: $url'),
322       ),
323     );
324   }
325 }
326
327 class WisataVerifyScreen extends StatelessWidget {
328   final String url;
329
330   WisataVerifyScreen({required this.url});
331
332   @override
333   Widget build(BuildContext context) {
334     return Scaffold(
335       appBar: AppBar(
336         title: Text('Verify Wisata'),
337       ),
338       body: Center(
339         child: Text('Verify Wisata: $url'),
340       ),
341     );
342   }
343 }
344
345 class WisataWelcomeScreen extends StatelessWidget {
346   final String url;
347
348   WisataWelcomeScreen({required this.url});
349
350   @override
351   Widget build(BuildContext context) {
352     return Scaffold(
353       appBar: AppBar(
354         title: Text('Welcome Wisata'),
355       ),
356       body: Center(
357         child: Text('Welcome Wisata: $url'),
358       ),
359     );
360   }
361 }
362
363 class WisataTermsScreen extends StatelessWidget {
364   final String url;
365
366   WisataTermsScreen({required this.url});
367
368   @override
369   Widget build(BuildContext context) {
370     return Scaffold(
371       appBar: AppBar(
372         title: Text('Terms Wisata'),
373       ),
374       body: Center(
375         child: Text('Terms Wisata: $url'),
376       ),
377     );
378   }
379 }
380
381 class WisataPrivacyScreen extends StatelessWidget {
382   final String url;
383
384   WisataPrivacyScreen({required this.url});
385
386   @override
387   Widget build(BuildContext context) {
388     return Scaffold(
389       appBar: AppBar(
390         title: Text('Privacy Wisata'),
391       ),
392       body: Center(
393         child: Text('Privacy Wisata: $url'),
394       ),
395     );
396   }
397 }
398
399 class WisataAboutScreen extends StatelessWidget {
400   final String url;
401
402   WisataAboutScreen({required this.url});
403
404   @override
405   Widget build(BuildContext context) {
406     return Scaffold(
407       appBar: AppBar(
408         title: Text('About Wisata'),
409       ),
410       body: Center(
411         child: Text('About Wisata: $url'),
412       ),
413     );
414   }
415 }
416
417 class WisataHelpScreen extends StatelessWidget {
418   final String url;
419
420   WisataHelpScreen({required this.url});
421
422   @override
423   Widget build(BuildContext context) {
424     return Scaffold(
425       appBar: AppBar(
426         title: Text('Help Wisata'),
427       ),
428       body: Center(
429         child: Text('Help Wisata: $url'),
430       ),
431     );
432   }
433 }
434
435 class WisataFeedbackScreen extends StatelessWidget {
436   final String url;
437
438   WisataFeedbackScreen({required this.url});
439
440   @override
441   Widget build(BuildContext context) {
442     return Scaffold(
443       appBar: AppBar(
444         title: Text('Feedback Wisata'),
445       ),
446       body: Center(
447         child: Text('Feedback Wisata: $url'),
448       ),
449     );
450   }
451 }
452
453 class WisataContactScreen extends StatelessWidget {
454   final String url;
455
456   WisataContactScreen({required this.url});
457
458   @override
459   Widget build(BuildContext context) {
460     return Scaffold(
461       appBar: AppBar(
462         title: Text('Contact Wisata'),
463       ),
464       body: Center(
465         child: Text('Contact Wisata: $url'),
466       ),
467     );
468   }
469 }
470
471 class WisataSupportScreen extends StatelessWidget {
472   final String url;
473
474   WisataSupportScreen({required this.url});
475
476   @override
477   Widget build(BuildContext context) {
478     return Scaffold(
479       appBar: AppBar(
480         title: Text('Support Wisata'),
481       ),
482       body: Center(
483         child: Text('Support Wisata: $url'),
484       ),
485     );
486   }
487 }
488
489 class WisataFAQScreen extends StatelessWidget {
490   final String url;
491
492   WisataFAQScreen({required this.url});
493
494   @override
495   Widget build(BuildContext context) {
496     return Scaffold(
497       appBar: AppBar(
498         title: Text('FAQ Wisata'),
499       ),
500       body: Center(
501         child: Text('FAQ Wisata: $url'),
502       ),
503     );
504   }
505 }
506
507 class WisataFAQScreen extends StatelessWidget {
508   final String url;
509
510   WisataFAQScreen({required this.url});
511
512   @override
513   Widget build(BuildContext context) {
514     return Scaffold(
515       appBar: AppBar(
516         title: Text('FAQ Wisata'),
517       ),
518       body: Center(
519         child: Text('FAQ Wisata: $url'),
520       ),
521     );
522   }
523 }
524
525 class WisataFAQScreen extends StatelessWidget {
526   final String url;
527
528   WisataFAQScreen({required this.url});
529
530   @override
531   Widget build(BuildContext context) {
532     return Scaffold(
533       appBar: AppBar(
534         title: Text('FAQ Wisata'),
535       ),
536       body: Center(
537         child: Text('FAQ Wisata: $url'),
538       ),
539     );
540   }
541 }
542
543 class WisataFAQScreen extends StatelessWidget {
544   final String url;
545
546   WisataFAQScreen({required this.url});
547
548   @override
549   Widget build(BuildContext context) {
550     return Scaffold(
551       appBar: AppBar(
552         title: Text('FAQ Wisata'),
553       ),
554       body: Center(
555         child: Text('FAQ Wisata: $url'),
556       ),
557     );
558   }
559 }
560
561 class WisataFAQScreen extends StatelessWidget {
562   final String url;
563
564   WisataFAQScreen({required this.url});
565
566   @override
567   Widget build(BuildContext context) {
568     return Scaffold(
569       appBar: AppBar(
570         title: Text('FAQ Wisata'),
571       ),
572       body: Center(
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```

Screenshot Output

5:09



Wisata Purwokerto



Baturraden

Baturraden adalah sebuah objek wisata alam yang terletak di lereng Gunung Slamet sekitar 15 kilometer dari pusat kota Purwokerto.

[Kunjungi Sekarang](#)



Curug Bayan

destinasi liburan yang sempurna untuk kamu yang ingin menikmati keindahan alam tanpa harus bepergian jauh. Akses yang mudah, fasilitas lengkap, harga tiket yang terjangkau, serta berbagai aktivitas seru yang bisa dilakukan menjadikan Curug Bayan sebagai pilihan yang tidak boleh dilewatkan

5:10



Wisata Purwokerto



Hutan Pinus Limpakuwus

Hutan Pinus Limpakuwus tidak seperti hutan lainnya yang mungkin sering terasa menyeramkan. Hutan ini sudah ditata dan dikelola sedemikian rupa dan ada wahana bermain juga, sehingga cocok sebagai salah satu destinasi wisata keluarga yang ramah anak dengan pemandangan yang mempesona.

[Kunjungi Sekarang](#)



Bukit Tengtung

Bukit Tengtung menawarkan pesona alam yang menakjubkan. Dikelilingi oleh hijaunya pepohonan dan tanaman, bukit ini memberikan perasaan kedamaian

Deskripsi Program

Pada Main.dart :

Mengimport statement 'material.dart' dan 'listview.dart' guna untuk mengambil widget dan listviewscreen yang akan digunakan sebagai halaman utama. Kemudian didalam MyApp ada mewarisi stateless widget, tittle sebagai judul aplikasi, theme untuk mengatur tema warna dan font yang digunakan serta home yang menetapkan listviewscreen sebagai halaman utama.

Pada listview.dart :

Pada class touristspot ini digunakan untuk model data di setiap tempat wisata yang ada di banyumas, memiliki properties name, imageurl, description yang menampung text gambar serta nama tempat wisata. Di dalam listviewscreen ini mewarisi stateless widget yang kemudian ada 'touristSpot' didalamnya. Di 'build()' ada scaffold, appBar dan yang kemudian ada didalamnya lagi ada struktur struktur yang digunakan untuk mengatur margin dan lain sebagainya.