

Министерство образования Республики Беларусь
Учреждение образования
**БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ**

Факультет компьютерных систем и сетей
Кафедра программного обеспечения информационных технологий
Дисциплина: Разработка программного обеспечения для мобильных платформ

ОТЧЕТ

По лабораторной работе №2

Тема работы: «RSS-reader»

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Минск 2023



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May 3, 2023

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Foreign Affairs Minister for the Czech Republic, Jan Lipavský, left, signs the Artemis Accords, as NASA Administrator Bill Nelson looks on, Wednesday, May 3, 2023, at The Mary W.





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NASA Selects 12 Companies to



20:12 6 KB/s



36%



Исходный код:
home.dart:

```
// ignore_for_file: import_of_legacy_library_into_null_safe

import 'dart:developer';

import 'package:cached_network_image/cached_network_image.dart';
import 'package:flutter/material.dart';
import 'package:dart_rss/dart_rss.dart';
import "package:http/http.dart" as http;
import 'package:rss/webview.dart';

class Home extends StatefulWidget {
  @override
  State<StatefulWidget> createState() => _Home();
}

class _Home extends State<Home> {
  static const String url = 'https://www.nasa.gov/rss/dyn/breaking_news.rss';
  RssFeed? _feed;
  static const String placeholderImg = 'assets/rickroll.png';

  late GlobalKey<RefreshIndicatorState> _refreshKey;

  Future<void> openFeed(String url) async {
    log(url);
    await Navigator.push(
      context, MaterialPageRoute(builder: (context) => WebView(url)));
  }

  Future<RssFeed> loadFeed() async {
    try {
      final client = http.Client();
      final response = await client.get(Uri.parse(url));
      return RssFeed.parse(response.body);
    } catch (e) {
      //
    }
    return const RssFeed();
  }

  load() async {
    loadFeed().then((result) {
      if (result == const RssFeed()) {
        //TODO: show info about error!
        return;
      }
      updateFeed(result);
    });
  }

  updateFeed(feed) {
    setState(() {
      _feed = feed;
    });
  }

  @override
  void initState() {
```

```

super.initState();
_refreshKey = GlobalKey<RefreshIndicatorState>();
load();
}

title(title) {
  return Text(
    title,
    style: const TextStyle(fontSize: 18.0, fontWeight: FontWeight.w500),
    maxLines: 2,
    overflow: TextOverflow.ellipsis,
  );
}

subtitle(subTitle) {
  return Text(
    subTitle,
    style: const TextStyle(fontSize: 14.0, fontWeight: FontWeight.w100),
    maxLines: 1,
    overflow: TextOverflow.ellipsis,
  );
}

thumbnail(imageUrl) {
  return Padding(
    padding: const EdgeInsets.only(left: 15.0),
    child: CachedNetworkImage(
      placeholder: (context, url) => Image.asset(placeholderImg),
      imageUrl: imageUrl,
      height: 50,
      width: 70,
      alignment: Alignment.center,
      fit: BoxFit.fill,
    ),
  );
}

rightIcon() {
  return const Icon(
    Icons.keyboard_arrow_right,
    color: Colors.grey,
    size: 30.0,
  );
}

list() {
  return ListView.builder(
    itemCount: _feed?.items.length,
    itemBuilder: (BuildContext context, int index) {
      final item = _feed!.items[index];
      return ListTile(
        title: title(item.title),
        subtitle: subtitle(item.pubDate),
        leading: thumbnail(item.enclosure?.url),
        trailing: rightIcon(),
        contentPadding: const EdgeInsets.all(5.0),
        onTap: () => openFeed(item.link!),
      );
    },
  );
}

```

```

    }

    isFeedEmpty() {
      return null == _feed?.items;
    }

    @override
    Widget build(BuildContext context) {
      return isFeedEmpty()
        ? const Center(
            child: CircularProgressIndicator(),
          )
        : RefreshIndicator(
            key: _refreshKey,
            child: list(),
            onRefresh: () async => load(),
          );
    }
  }
}

```

main.dart:

```

import 'package:flutter/material.dart';
import 'package:rss/home.dart';

```

```

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

```

```

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

```

```

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'RSS Reader',
      theme: ThemeData(
        primarySwatch: Colors.blue,
      ),
      home: Material(child: Home()),
    );
  }
}

```

webview.dart:

```

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

```

```

class WebView extends StatefulWidget {
  final String url;
  WebView(this.url);

```

```

  @override
  State<StatefulWidget> createState() => _WebView(url);
}

```

```

class _WebView extends State<WebView> {

```



```
final String url;
late WebViewController controller;
_WebView(this.url);

@override
void initState() {
  controller = WebViewController()
    ..setJavaScriptMode(JavaScriptMode.unrestricted)
    ..setNavigationDelegate(NavigationDelegate(
      onProgress: (progress) {},
      onPageStarted: (url) {},
      onPageFinished: (url) {},
      onWebResourceError: (error) {},
    ))
    ..loadRequest(Uri.parse(url));
  super.initState();
}

@override
Widget build(BuildContext context) {
  return WebViewWidget(controller: controller);
}
```