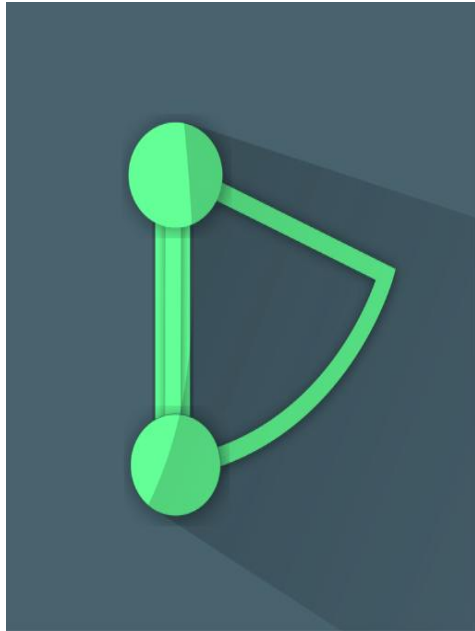




Transnational Meeting no. 5 Sisak (Croatia)

Prepared by ZS10 Zabrze



– Android application

First preview



Co-funded by the
Erasmus+ Programme
of the European Union



2015-1-ES01-KA202-015925

Witaj! that means welcome



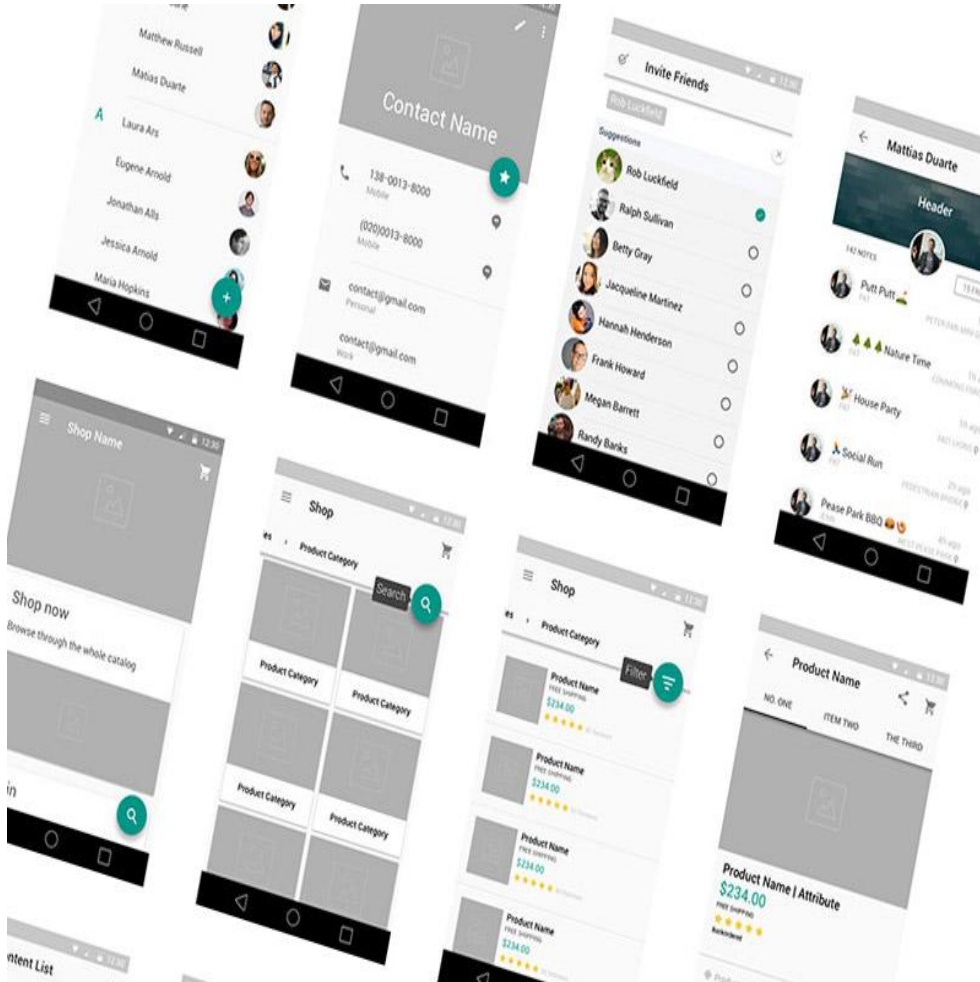


Why android?

- Open
- Free
- Popular
- Multiplatform
- Many languages (Kotlin, Java, C++, NDK)
- Many phones
- Easy access



Material design





Clean code, many libraries and dependencies

- Material
- Navigation Drawer
- Gson
- Smart Fonts
- FAB
- Junit
- Espresso
- Firebase
- Picasso



```
compile files ('libs/gson-2.8.0.jar')

//Design Dependencies
compile 'com.android.support:mediarouter-v7:25.3.1'
compile 'com.android.support:appcompat-v7:25.3.1'
compile 'com.android.support:design:25.3.1'
//Very important dependency allows you to use material design
//on pre-lollipop devices
compile 'com.github.rey5137:material:1.2.4'
compile 'com.android.support:support-v4:25.3.1'
compile 'com.github.smart-fun:SmartFonts:1.0.2'
compile('com.mikepenz:materialdrawer:5.9.1@aar') {
    transitive = true
}
compile 'com.ms-square:expandableTextView:0.1.4'
compile 'com.squareup.picasso:picasso:2.5.2'
compile 'com.github.coyarzun89:fabtransitionactivity:0.2.0'
compile 'com.rengwuxian.materialedittext:library:2.1.4'
//Import services for localization and maps
compile 'com.google.android.gms:play-services-maps:10.2.4'
compile 'com.google.android.gms:play-services-location:10.2.4'
compile 'com.google.android.gms:play-services-identity:10.2.4'

//Image upload service
compile 'net.gotev:uploadservice:3.2.3'
compile 'net.gotev:uploadservice-ftp:3.2.3'

//Butterknife to reduce amount of view code
compile 'com.jakewharton:butterknife:8.5.1'
annotationProcessor 'com.jakewharton:butterknife-compiler:8.5.1'

//Don't remove and keep up to date with support package version e.x. 25.3.1
//Without this line compile throws support-annotations error!
androidTestCompile 'com.android.support:support-annotations:25.3.1'

testCompile 'junit:junit:4.12'

// Android runner and rules support
androidTestCompile 'com.android.support.test:runner:0.5'
androidTestCompile 'com.android.support.test:rules:0.5'

// Espresso support
androidTestCompile('com.android.support.test.espresso:espresso-core:2.2.2', {
    exclude group: 'com.android.support', module: 'support-annotations'
})
})
```



Fully open source

- Git and github pushing
- Good android studio compablity
- Sharing code
- <https://github.com/tmaxxdd/DronE>



No description, website, or topics provided.

Edit

Add topics

23 commits

1 branch

0 releases

1 contributor

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

tmaxxdd Added some future camera and MyDrone Code. Changed adapter to MyDroneOld Latest commit 15619ba 37 minutes ago

.idea Second commit Added some future camera and MyDrone Code. Changed adapter to MyDroneOld 7 days ago

app Added some future camera and MyDrone Code. Changed adapter to MyDroneOld 37 minutes ago

README.md Update README.md 7 days ago

README.md

Drone

This is official repository for android application made for using with drones. App uses Butterknife, Unit tests, dependencies and google services, keep this in mind. If you want to use this code in android studio configure your gradle under this config.

#Full description soon.





Reduce redundant code - Butterknife

- Annotations
- Reduce findViewById
- More clear adapter
- Using with views, sources, xml, drawables
- Patterns
- Single line listeners
- <http://jakewharton.github.io/butterknife/>



```
@BindView(R2.id.main_recyclerview)
RecyclerView recyclerView;
@BindView(R2.id.main_bottom_sheet)
SheetLayout sheetLayout;
@BindView(R2.id.main_fab)
FloatingActionButton fab;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    //Setup app layout by color mode
    //Order methods below is very important!
    myThemeManager = new MyThemeManager(this);
    myThemeManager.chooseTheme();//Automatically set light or dark
    setContentView(R.layout.activity_main);

    initializeToolbarLayout();
    initializeToolbar();
    initializeNavigationDrawer();
    ButterKnife.bind(this);
    //Butterknife things under bind
    sheetLayout.setFab(fab);
}
```





New Java 8 features

- Lamdas
- Streams
- Listeners
- Support older versions



Unit tests – Junit and Espresso



UI Testing for Android

Espresso Test Recorder



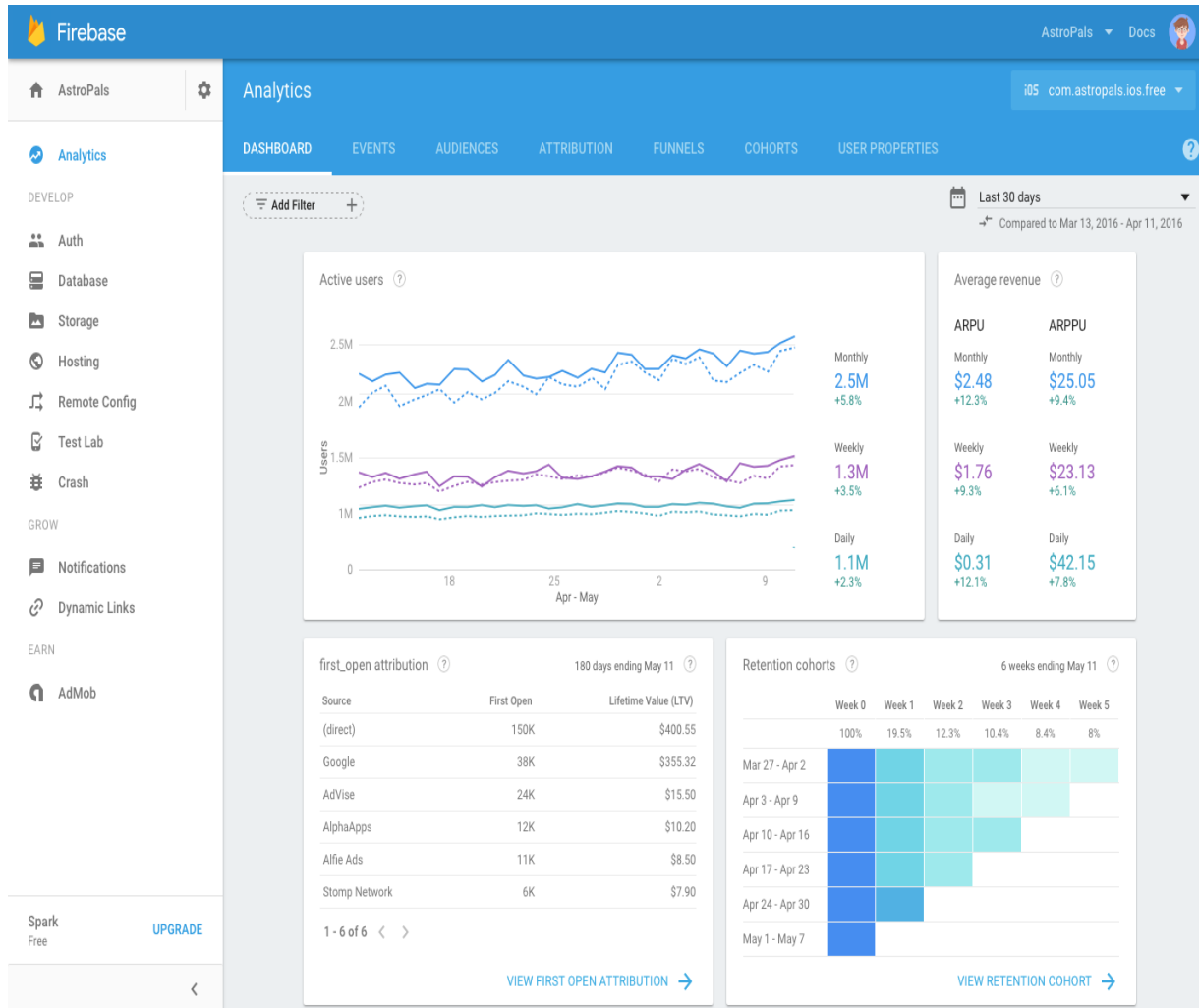
Firebase





Why Firebase?

- Official Google and Android studio support
- Easy to start
- Many features (Notifications, Database, Login, Hosting)
- Fast and stable
- Fast improvement
- Free to start
- Many guides and good documentation





Overview Omówienie

com.cztteryery.hop.drone

Zapoznaj się z Firebase Analytics →

0	0 \$
Liczba aktywnych użytkowników miesięcznie	Szacowane przychody

Awarie (30 dni)

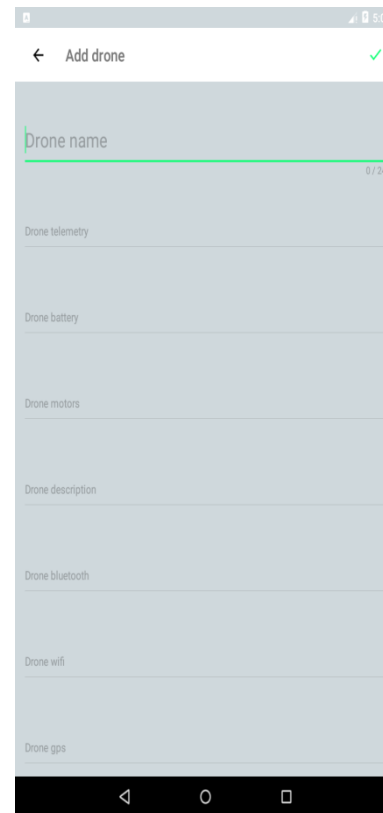
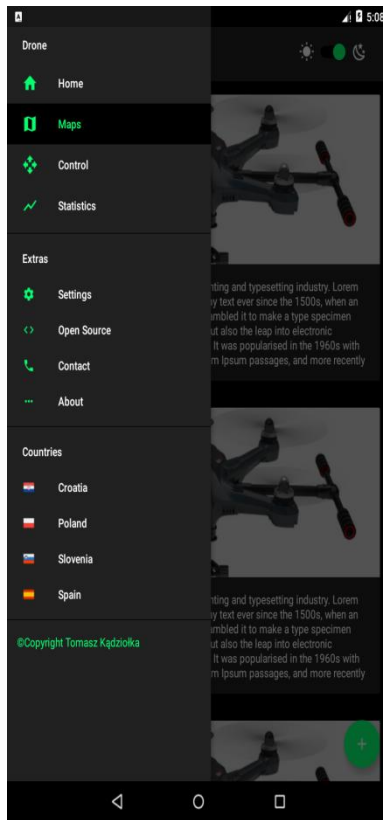
0	0
Użytkownicy, na których ma to wpływ	Instancje

+
Dodaj kolejną aplikację

Odkryj Firebase



What do we have now?





Continous development

- Follow commits on Github
- Follow updates on Google Play
- Check our Facebook
- Feel free to reuse and share code
- Write to my com.czterytery@gmail.com
- to get help and cooperate
- Let me know about bugs and ideas

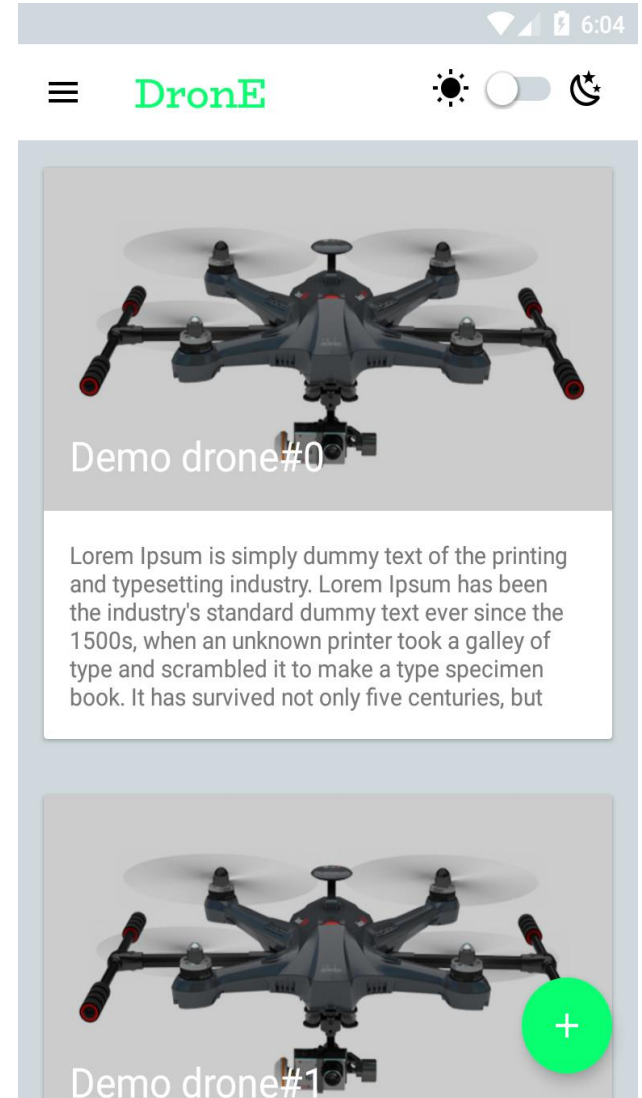
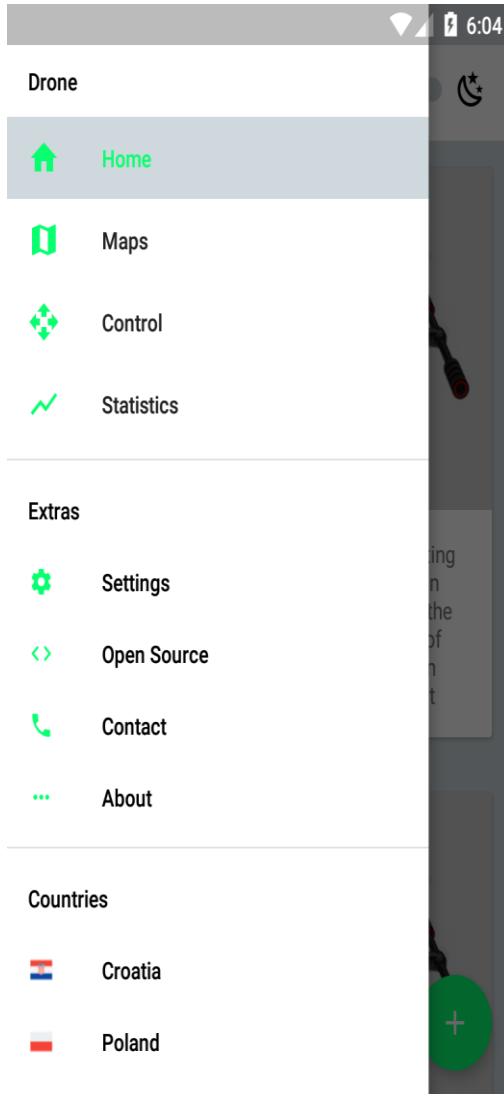


Future

- Public drone configuration (add your drones and check others)
- Profiles for every school
- Statistics
- My location and map
- Drone controll
- Offline
- Settings
- Contact
- About
- Intro and showcase
- Distribution to promote Drone Team



Future





My wish

- Make this app like official Drone Team Application (Links on webpage, sharing)
- Co-operation work with code
- Good feedback and debugging



Google Play



Google Play



Thank you for attention.

Tomasz Kadziolka ZS10



Sources

- https://i0.wp.com/peirr.com/wp-content/uploads/2016/06/espresso_test_recorder-e1465550966921.png?fit=600%2C293&ssl=1
- <http://jakewharton.github.io/butterknife/static/logo.png>
- https://firebase.google.com/images/homepage/news/500_blog_firebase_2x.png
- <https://2.bp.blogspot.com/-QcMMaU5Fmo0/VzYrDEYTgMI/AAAAAAAAAAG/ospeUyBtKMEcqzirttotdpp0Jdg4xiPkwCLcB/s1600/image01.png>
- https://androidbeztajemnic.files.wordpress.com/2016/11/google_play_logo_2015-630x247.png?w=880&h=345
- <https://www.sketchappsources.com/resources/source-image/material-m-wireframe-stickersheet-v-02.jpg>