

ANOTODE

The Web Annotator .

LLD - Andorid

Revision 3.0

CS Group 1

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Revision Table

| Revision | Author | Reviewer | Revision Date | Revision Tracking Notes |
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| 2 | Chahat | Manohar | 27-9-16 | updated class diagram |

Contents

| | | |
|----------|---|----------|
| 1 | Introduction | 3 |
| 1.1 | Purpose | 3 |
| 1.2 | Document Convention | 3 |
| 1.3 | Intended Audience and Reading Suggestions | 3 |
| 1.4 | References | 3 |
| 2 | Design | 3 |
| 2.1 | Codebase structure | 3 |
| 2.2 | User Interface | 4 |
| 2.3 | Class Diagram | 5 |
| 2.3.1 | Error/Exception Handling | 5 |
| 3 | Configuration | 5 |
| 3.1 | Adapter / Connector Configuration | 6 |
| 3.2 | Third Party tool Configuration | 6 |
| 4 | Customization | 7 |
| 5 | Assumptions | 7 |

1 Introduction

1.1 Purpose

This document holds the low level design specification for the Android app component of the project Anotode. It is supposed to be followed during the coding phase and will be used as a reference for developing the Android app part of the project.

1.2 Document Convention

App means Anotode Android app. Will use the Sans Serif and 10pt font size for content. Rest things is followed according to the Document convention doc of our project.

1.3 Intended Audience and Reading Suggestions

The audience of this document is assumed to be the development team and whosoever who is part of development of the Android app and in some cases, the entire project. It is recommended that anyone reading this document must have prior knowledge of how Android app work. An experience in developing Android app would come really handy.

1.4 References

Various references were used in preparing this document. A non-exhaustive list of them can be listed as follows -

- Google Android Developer Reference
<https://developer.android.com/index.html>
- Tutorial point Android Developer Guide
<https://www.tutorialspoint.com/android/>
- Android Developer Guide
<http://www.androidhive.info/>
- Google API
<https://developers.google.com/android/reference/>

2 Design

2.1 Codebase structure

1. WelcomeActivity
2. User-username,email,password,picture

- (a) SignUpActivity
 - (b) LoginActivity
- 3. Highlight-id,time,url,title,notedtext,comment,tag1,tag2,tag3,tag4,category
 - (a) HighlightFragment
 - (b) HighlightDetail
 - (c) HighlightEdit
 - (d) HighlightRecyclerViewAdapter
 - (e) NotesFragment
 - (f) NotesEdit
 - (g) NotesDetail
 - (h) NotesRecyclerViewAdapter
 - (i) AddNotesActivity
- 4. AnotodeStore
- 5. ChangeProfileActivity
- 6. ChangePwdActivity
- 7. ChangeUserNameActivity
- 8. AboutActivity
- 9. ClickListner-Interface
- 10. DividerItemDecoration
- 11. NotesDataHandler
- 12. RecyclerViewTouchListner
- 13. SearchResultActivity
- 14. SettingActivity

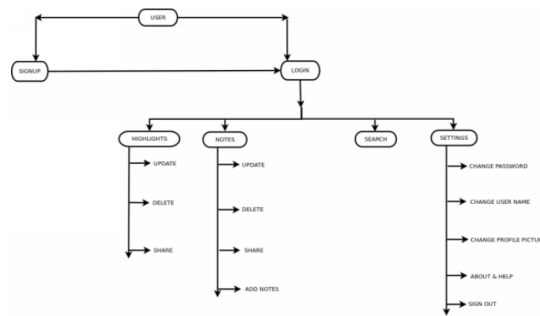
2.2 User Interface

As detailed in the prototype designs.
For backend, UI is API.

1. AddNotesActivity-<http://anotode.herokuapp.com/api/highlights?token=>
2. UserDetails-<http://anotode.herokuapp.com/api/users/user?token=>
3. GetCategory-<http://anotode.herokuapp.com/api/highlights/categories?token=>

4. SendingImage-http://uploads.im/api
5. UpdateHighlights UpdateNotes-http://anotode.herokuapp.com/api/highlights/id?token=
6. FetchHighlights UpdateNotes-http://anotode.herokuapp.com/api/highlights?token=
7. LogIn-http://anotode.herokuapp.com/api/login
8. Search-http://anotode.herokuapp.com/api/highlights?token= contains=
9. SignUp-http://anotode.herokuapp.com/api/users

2.3 Class Diagram



2.3.1 Error/Exception Handling

```

a) Exception is handled by JSONException.

try{
    ....
}
catch(JSONException e){
    Log.d("... ", " ... ");
}

b) Volley error is handled by method onErrorResponse.

public void onErrorResponse(VolleyError error){
    Log.d("... ", " ... ");
}
  
```

3 Configuration

This section lists the configurations that need to be done in order to get the system running.

3.1 Adapter / Connector Configuration

- HighlightRecyclerAdapter Used for inserting data to the Recycler view list in highlights
- NotesRecyclerAdapter - Used for inserting data to the Recycler view list in notes.

```
android {
    compileSdkVersion 24
    buildToolsVersion "24.0.2"
    defaultConfig {
        applicationId "com.example.chahat.anotode"
        minSdkVersion 19
        targetSdkVersion 24
        versionCode 1
        versionName "1.0"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-
android.txt'), 'proguard-rules.pro'
        }
    }
}
```

3.2 Third Party tool Configuration

- Upload.im database server server for storing images
API is <http://uploads.im/api>.
- Google API Used for google sign in.

4 Customization

We can improve Layout for next version. Adding Facebook signin option for user. Can also attach images, files with our custom note feature. We can use camera action for profile picture upload.

5 Assumptions

- The user will have a basic knowledge of APIs.
- The user knows basic of the deploying to APP
- The user knows basic knowledge of various Andriod App integration tools.
- The user know how heroku Deployment works.