Mactrasher

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SNOWTAMhelper

Specifications

Table des matières

[I. Global description 1](#_Toc467136640)

[II. Application Interface 1](#_Toc467136641)

[Search Activity: 1](#_Toc467136642)

[SNOWTAMdisplayer: 1](#_Toc467136643)

[III. Functionalities 1](#_Toc467136644)

[IV. Importance and difficulty of tasks 1](#_Toc467136645)

[V. Class diagram and algorithms 1](#_Toc467136646)

# I. Global description

The SNOWTAMHelper is an Android application supposed to help plain pilots to:

* Retrieve a snow tam from the web
* Decode the SNOWTAM
* And display thanks to a friendly interface

# II. Application Interface

### Search Activity:

### SNOWTAMdisplayer:

# III. Functionalities

On the first activity (SearchActivity), the user must be able to:

* Enter multiple airports name
* Reset/Wipe current data

On the second activity (SNOWTAMdisplayer), the user must be able to:

* Read raw SNOWTAM if asked
* Read decoded SNOWTAM
* Switch easily between each airports SNOWTAM
* Interact with the Google map
* Go back to SearchActivity without losing previously loaded data

The application must able to:

* Embed an airports’ code list for suggestions (DB for SearchActivity)
* Download multiple SNOWTAMs (Control)
* Decode multiple SNOWTAMs (Control)
* Display raw SNOWTAM if asked by the user (SNOWTAMdisplayer)
* Display decoded SNOWTAM (SNOWTAMdisplayer)
* Allow user to switch SNOWTAMs by swiping left or right (SNOWTAMdisplayer)
* Save data when going from SNOWTAMdisplayer to SearchActivity

# IV. Importance and difficulty of tasks

#### Critical:

* Retrieving SNOWTAM from HTML pages
* Decoding SNOWTAM
* Display multiple SNOWTAMs on a same activity

#### Medium:

* Swipe to switch between SNOWTAMS

#### Soft:

* Display the Google Map
* Enable suggestions for searching bar

# V. Class diagram and algorithms