

Developer manual

Before everything...

Clone the repository from Github using the command

```
$ git clone git@github.com:ircSEX/ircSEX-Messenger
```

Dependencies

- JDK 6 or higher
- Android SDK
- Android support library v4

Dependencies for unit tests:

- Groovy 1.8.6
- Spock-core 0.6-groovy-1.8

The project uses the Apache Maven¹ build automation tool. The dependencies will be resolved automatically when using it.

Build

The pom.xml in ircSEX-Messenger/ircSEXMessenger defines the project object model for Maven. In this directory, Maven tasks can be executed for the project.

To build the project, run the Maven goal install with

```
$ mvn install
```

To only run the unit tests, run the Maven goal test with

```
$ mvn test
```

To deploy the application to a connected Android device, execute the task

```
$ mvn android:deploy
```

To uninstall the application from a connected Android device, execute the task

```
$ mvn android:undeploy
```

There are SNAPSHOT artifacts kept from every release. These are located in the ircSEX-Messenger/apk directory. To install an old SNAPSHOT, run

```
$ adb install <.apk name>
```

¹ <http://maven.apache.org/>

Release procedure

Refer to the Definition of done document and utilize the best practices defined in it when developing and releasing.

Architecture

This serves as an introduction to the system and its architecture.

Packages

The project's top level packages and their responsibilities are:

- `irc` - IRC protocol implementation
- `model` - domain model for the client
- `ui` - contains activities, fragments, etc.
- `view` - contains extensions of Android view classes

Figure 1 shows the dependency structure in Stan.

<BILD FRÅN STAN>

Figure 1. Package view in Stan.

The application entry point is `ChannelActivity`.

Database schema

The database is Android's default SQLite. It consists of three tables, which are shown in figure 2.

<BILD PÅ DATABASSCHEMAT>

Figure 2. Database diagram.