



Software to Install

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# For the Client

To compile the source code of the client we have used Android Studio 3.5.3 with flutter, the complete setup instructions are available here: <https://flutter.dev/docs/get-started/install>

## On Mac

### To install Flutter

Download the Flutter SDK and extract it in a desired location:  
<https://storage.googleapis.com/flutter_infra/releases/stable/macos/flutter_macos_v1.12.13+hotfix.5-stable.zip>

Add the flutter tool to your path:

export PATH="$PATH:`pwd`/flutter/bin"

### To run the client

You need to install Xcode (we have used the version 11.3 for iOS 13.2.3) (Xcode is available only for Mac): from the App Store of the Mac or from  
<https://developer.apple.com/download/more/?=xcode>  
(you need to register as a Developer, there is no cost associated) and select Xcode 11.3

Then you should install also CocoaPods by entering in the Terminal:

sudo gem install cocoapods

### Finally

Run the following command to see if there are any dependencies you need to install to complete the setup:

flutter doctor

## On Windows

### To install Flutter

Download the Flutter SDK and extract it in a desired location:  
<https://storage.googleapis.com/flutter_infra/releases/stable/windows/flutter_windows_v1.12.13+hotfix.5-stable.zip>

Add the flutter tool to your path:

* From the Start search bar, enter ‘env’ and select Edit environment variables for your account.
* Under User variables check if there is an entry called Path:
* If the entry exists, append the full path to flutter\bin using ; as a separator from existing values.
* If the entry doesn’t exist, create a new user variable named Path with the full path to flutter\bin as its value.

### To run the client

Download and install Android Studio: <https://developer.android.com/studio>

Install dart and flutter plugins for Android Studio and set up an emulator: <https://flutter.dev/docs/get-started/install/windows#android-setup>

### Finally

Run the following command to see if there are any dependencies you need to install to complete the setup:

flutter doctor

## On Linux

Complete instructions are available here: <https://flutter.dev/docs/get-started/install/linux>

# For the Application Server and the Web Server

To compile the source code of the application server and the web server, we have used IntelliJ IDEA 2019.3 (Ultimate Edition):

<https://www.jetbrains.com/idea/download>

Important plugins for IntelliJ:

* JavaEE: RESTful Web Services(JAX-RS)
* JavaEE: EJB, JPA, Servlets
* GlassFish
* Database Tools and SQL

Download the JDK of Java 8 and add it to your path:

<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Download GlassFish 4.0 and put it in a desired location:

<https://javaee.github.io/glassfish/download>

Download the Connector/J 8.0.18:

<https://dev.mysql.com/downloads/connector/j/>

and put it inside GlassFish inside the directory /glassfish4/glassfish/domains/domain1/lib

# For the Database

For the DBMS we have used MySQL Community Server (our version is 8.0.17, but also 8.0.18 should work):

<https://dev.mysql.com/downloads/mysql/>

If you would like to communicate directly to the DBMS in a fast and intuitively way you can use MySQL Workbench (our version is 8.0.17, but also 8.0.18 should work):

<https://dev.mysql.com/downloads/workbench/>