Installation

GUIDE

ABTO3BIT

fireArt PLATFORM is a **Java/Javascript** that is adapted for **trip/delivery** business solutions.

The base parts of the platform are:

★ Database backend is a MySQL database, using Tables, Triggers, Functions and Procedures of MySQL database.

★ WebAPI using Java servlet technology (pure Java). Apache Tomcat Java web server is a base for the servlet.

★ Servlet support database backend connectivity for client's library.

★ Java/Javascript library for database object manipulating, working as RESTful client service with JSON data structures.

For installation **database backend** must next step completed:

1. Downloads MySQL database package from website http://mysql.com
(Select MySQL Classic Edition recommended from Downloads menu)

2. Install MySQL database on the server side or use the Java hosting
providers, that support MySQL servers

3. Download MySQL Workbench package from website http://mysql.com (Select
MySQL Workbench from Downloads menu). MySQL Workbench provides DBAs and developers
an integrated tools environment.

4. Install MySQL Workbench on the admin side.

5. Execute MySQL Workbench tool on the admin side and connect to the server side with default MySQL credentials for ROOT user. If you have remote admin side from the server side, You must to Grant connect option for ROOT user. If You got the message: <Host 'YOUR_HOST' is not allowed to connect to this MySQL server> You must goto server's console and make:

~# mysql -u root mysql -p mysql> GRANT ALL PRIVILEGES ON database.* TO username@"%" IDENTIFIED BY 'password' WITH GRANT OPTION;

mysql> exit;

~# mysql admin -u root -p flush-privileges

For Grant any user (as <USER>) for select data from <my_table> from <my_db> database goto server's console and make:

GRANT SELECT ON my_db.my_table TO <USER>@192.168.0.1 IDENTIFIED BY 'superpass'

For up max allowed packet size (for large images) You must goto server's console and make:

- connect as ROOT user to the database server

~# mysql -u root mysql -p

Password : pass…word

- select and preview size of allowed packet select @@global.max_allowed_packet @@global.max_allowed_packet = <size>

- set a new value for allowed packet set global max_allowed_packet=16777216

6. After success connected to the database server on the server side Import data, as execute fireArt platform sql scripts (for database objects creation):
- fireart_schema.sql for fireArt platform Tables, Functions and Procedures creation.
- fireart_data.sql for Data and Triggers creation.
- fireart_user for fa_admin and fa_client base system users creation and Grants rights to the firearm platform database objects.

Java servlet (fireArt platform servlet) is open source project and download from GitHub and BitBucket:

https://github.com/ABTO3BIT/skyDrakkar.git   https://bitbucket.org/nihonto/skydrakkar.git

For installation **WebAPI** must *next step* completed:

1.Download Apache Tomcat web server package from website http://tomcat.apache.org/ (Select Download menu points of the Tomcat packages)

2.Install Apache Tomcat web server on the server side (Or using Java hosting providers, that support Java servers, such as Apache Tomcat web server).

3.Open /conf/server.xml file from Apache Tomcat installed file path.
Add next strings (in <Engine> … </Engine>) for new host support (<YOUR_HOST> as example):

```
<Host name="YOUR_HOST.com" appBase="webapps/YOUR_HOST" unpackWARs="true" autoDeploy="true">
<Alias>www.YOUR_HOST.com</Alias>
<Context path="" docBase="ROOT" reloadable="false" />
</Host>
```

4.New directory with <YOUR_HOST> creation in /webapps (such as /webapps/<YOUR_HOST>) from Apache Tomcat installed file path. Upload website files to /webapps/<YOUR_HOST>/ROOT in future.

5.Upload fireArt platform servlet for RESTful services (based on JSON structure) creation. Put service.war file (Java servlet file) to /websapp/YOUR_HOST
Apache Tomcat deploy and open all servlet files on the server side (in directory /webapps/<YOUR_HOST>/service).

6.Restart Apache Tomcat server instance.

For installation **Java/Javascript** must next step completed:

1. The `<package_zip_file>/js` named as `jfa_lib.js`, `jfa_tools.js`, `jfa_messages.js` copy to YOUR working directory for javascript web application developments.

2. The `<package_zip_file>/android` copy to YOUR Android working directory for Android Java mobile application developments (for Android Studio).

3. Download the **Android Studio** from http://developer.android.com for Android Java mobile application development and install package.

Open **Android Studio** and goto Open Project menu point.

Select copied file fireart_android.iml and open in opened dialog.

Wait for all project's files will be open.