### **TEAM TEAM DEVELOPER'S MANUAL**

### DEPLOYMENT OF THE FRONTEND

- Deployment client application:
  - Go to /src/services/backend-service.js, at the top of the file.
     Change the baseURL property to the location of the server application.
     (Currently using a custom domain getnova.app)
  - On command line, run **npm install**, **npm run build** to build the client application into static file in /dist dictionary
  - Statically host the contents of the /dist dictionary. (Currently using Netlify)
  - Ensure that the hosting provider is set up with a catch-all fallback route that redirects to index.html to allow Vue.js history mode routing. This is achieved in our current hosting provider (Netlify) by placing a \_redirects file in the root with the content "/\* /index.html 200" (included in the project source by default under /public).

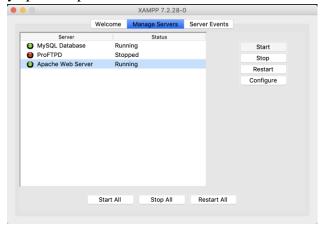
## DEPLOYMENT OF THE BACKEND

- Create the tar file by running the Gradle command:
  - o gradle distTar
- Transfer the created tar file to the VPS e.g. through FileZilla. The server needs an SSL certificate this can be obtained from Certbot.
- Export the tar file into a desired directory
- Transfer the even-kite file from main/resources
- Set the **GOOGLE\_APPLICATION\_CREDENTIALS** environment variable according to the path of the even-kite file
- Extract the tar by running the command:
  - o tar -xf back-end.tar
- Set up the hibernate configs for database: this includes the following files:
  - o backend/src/main/resources/application.yml
  - o backend/src/main/resources/hibernate.cfg.xml
- Run ./back-end

Relevant tables for the database will be created as they're invoked by the Controller along with a user account.

## SETTING UP LOCALLY

- Download necessary components
  - Gradle (https://gradle.org/install/)
  - Npm & Node (https://www.npmjs.com/get-npm)
  - Vue.js (https://vuejs.org/v2/guide/installation.html)
  - o Xampp [For localhost use] (https://www.apachefriends.org/index.html)
- 1. Open Xampp
- 2. Start Mysql and Apache



- 3. Open Browser and go to (http://localhost/phpmyadmin/)
- 4. Create a database which can be connected to; e.g. testunittest with no password. Relevant tables will be automatically created with constraints enforced once 'gradle test' or the relevant controllers/managers are invoked (through POSTMAN from 'gradle run')



5. Click the created table and click SQL button on the top nav bar and run command: set GLOBAL time\_zone = "+00:00";



6. Do the same with the created test table

# 7. Go to SEGMajorProject/back-end/src/main/resources

Add correct connection string and credentials in **application.yml**, **hibernate.cfg.xml** and **hibernate.properties** according to the database config. This will be the database for the main running.

(Our setting is '127.0.0.1:3306/seg', the format may change according to your own db settings.)

# 8. Go to SEGMajorProject/back-end/src/test/resources

Adjust application.yml, testhibernate.cfg.xml and hibernate.properties to match a database for testing. This database will automatically have all its tables created and wiped (or just wiped) once tests are complete via 'gradle test'.

# 9. Go to **SEGMajorProject/back-end/** in command line Run command:

o **gradle test** (to see the test results)

# 10. Go to **SEGMajorProject/back-end/** in command line

Run command:

- o gradle build
- o **gradle run** (to run the backend server)

```
17:12:29.842 [main] DEBUG io.micronaut.context.event.ApplicationEventPublisher - Publishing event: io.micronaut.runtime.server.event.ServerStartupEvent[source=io.micronaut.thtp.server.netty.NettyNttpServergi80643593]
17:12:29.842 [main] DEBUG io.micronaut.context.DefaultBeanContext - Resolving beans for type: <ServerStartupEvent> io.micronaut.context.event.ApplicationEventListener
17:12:29.842 [main] DEBUG io.micronaut.context.DefaultBeanContext - Qualifying bean [io.micronaut.context.event.ApplicationEventListener] from candidates [Definition: io.micronaut.tttp.client.scope.
17:12:29.842 [main] DEBUG io.micronaut.runtime.http.scope.RequestCustomScope, Definition: io.micronaut.runtime.context.scope.refresh.RefreshScope] for qualifier: <ServerStartupEvent>
17:12:29.842 [main] DEBUG io.micronaut.context.DefaultBeanContext - Found no matching beans of type [io.micronaut.context.event.ApplicationEventListener] for qualifier: <ServerStartupEvent>
17:12:29.843 [main] DNFO io.micronaut.runtime.Micronaut - Startup completed in 2387ms. Server Running: http://localhost:8889
17:12:29.843 [main] DNFO io.micronaut.runtime.Micronaut - Startup completed in 2387ms. Server Running: http://localhost:8889
17:12:59.846 [MikariPool-1 housekeeper] DEBUG com.zaxxer.hikari.pool.HikariPool - HikariPool-1 - Pool stats (total=10, active=0, idle=10, waiting=0)

3. FUND - TUNE | T
```

# 11. Go to **SEGMajorProject/front-end/seg-major-frontend/** in command line

You may have to change BaseURL in /src/services/backend-service.js to the host address you received in the last step.

Run command **npm install** first, then run:

o **npm run serve** (to start the frontend)

```
App running at:
- Local: http://localhost:8082/
- Network: http://10.108.1.211:8082/

Note that the development build is not optimized.
To create a production build, run npm run build.
```

### Or

o vue ui (to start the vue.js user interface)

```
[s-MacBook-Pro:seg-major-frontend chenziyang$ vue ui

Starting GUI...
Ready on http://localhost:8000
```

Then start the project from the user interface e.g. heading to the npm host site on a web browser.

### ACCESSING LIVE TESTING DATABASE

- 1. On the terminal swap to branch 'test\_db\_setup' via command 'git checkout test\_db\_setup'.
- 2. Ensure your **GOOGLE\_APPLICATION\_CREDENTIALS** environment variable still points to the even-kite JSON file path.

#### YOUR FIRST ADMIN ACCOUNT

{

- Once running, if your user table is empty, a default account is created: if your database doesn't contain any tables, running gradle test or gradle run will create relevant tables and add your first user account:
  - o Email: admin@admin.com
  - o Password: admin
  - o Name: Administrator
- Post requests to [host]/user/login/ (e.g. getnova.app/ or localhost:8080/) can take a similarly made JSON body consisting of: in order to obtain a valid X-API Key.

```
"name": "Administrator",
```

```
"password": "admin",
"email": "admin@admin.com"
}
```