Inštalačná príručka

Tím PARKety, č. 15

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Obsah

1 Inštalácia produktu

Inštalačný proces zodpovedá štandardom Unicorn Systems SK. Proces inštalácie je opísaný na adrese `https://github.com/mlehotsky13/SmartParking/blob/develop/README.md`. Nasledovná sekcia popisuje postup inštalácie.

2 Outline

- Prerequisites for uuApp project

- uuApp Deployment Requirements

- uuApp Local Deployment

    1. Prepare uuApp

    2. IntelliJ settings

    3. NPM repository configuration

    4. Install and run client

    5. Install and run server

- uuApp Initialization

    1. Initialize uuAppWorkspace

    2. Configure profiles and permissions

    3. Test functionality

- uuApp Distribution Package Creation

3 Prerequisites

- Node.js 8.4+

- MongoDB 3.6+ (project utilizes Mongo's arrayFilter functionality)

4 uuApp Deployment Requirements

! Specify application deployment requirements here.

Example:

- 1x TID

- 1x ASID + sysOwner uuIdentity

- 1x AWID + sysOwner uuIdentity

- 1x OSID (or a MongoDB connection string for local development)

5 uuApp Local Deployment

1. Prepare uuApp

2. Install and run client

5.1 Prepare uuApp

1. Rename project uu_appg01_template-uu5-javascript to new project name.
Rename folders uu_appg01_main-client, uu_appg01_main-design,
uu_appg01_main-server according project name.

2. Disconnect from git repository

```
git remote rm origin
```

If you have new repository for new project, you can connect it with

```
git remote add origin ssh://git@codebase.plus4u.net:9422/<new_repozitory>.»
  » git
```

Verify with

```
git remote −v
```

```
origin   ssh://git@codebase.plus4u.net:9422/<new_repozitory>.git (fetch)
origin   ssh://git@codebase.plus4u.net:9422/<new_repozitory>.git (push)
```

5.2 IntelliJ settings

For proper configuration of your IDE go to Settings - Languages & Frameworks - JavaScript and select ECMAScript 6 JavaScript version. Also go to Settings - Languages & Frameworks - Node.js and NPM and enable Node.js Core library.

5.3 NPM repository configuration

This step is no longer required as .npmrc file with NPM repository configuration has been added to the project root folder.

To install uuAppg01 node modules, NPM repository has to be configured to https://repo.plus4u.net/repository/npm/

NPM repository can be configured in command line:

```
npm config set registry https://repo.plus4u.net/repository/npm/
```

Another way to configure NPM repository is to manually edit file .npmrc in you home folder (or create it if does not exist) and add following line:

```
registry=https://repo.plus4u.net/repository/npm/
```

Note that only one NPM repository can be configured at the same time. Plus4u repository has set proxy to https://www.npmjs.com so it can install also third party modules.

5.4 Install and run client

1. Change project name Edit app.json and change values of attributes name, code, description and vendor. For name use (a-z), number (0-9) and chars (_-.). For code use (A-Z), number (0-9) and chars (_-.).

2. Installation Open client folder and execute install in command line:

```
cd <your client folder name e.g. uu_appg01_main-client>
npm install
```

3. Run Execute command (in folder *_main-client):

```
npm start
```

4. In case of developing only client side of application you can open Index in browser - localhost

5.5 Install and run server

1. Mongo DB Installation and startup

- Download Mongo DB for windows from MongoDB

- Execute downloaded executable and choose complete installation.

- Run command line. Open "C:\Program Files\MongoDB\Server\3.x\bin" and execute

```
mongod.exe
```

! This installation is only for development only !

- Recommended client is Robo 3T for database administration.

- Documentation with detailed information is available on Documentation

2. Configure server - Edit configuration uu_appg01_main-server/development.json and replace <uuSubAppInstanceSysOwner> with your uuIdentity.

3. Make you sure that command "npm run dist"(chapter uuApp Distribution Package Creation) in folder uu_appg01_main-client was called before next step.

4. Installation Open server folder and execute install in command line:
```
cd npm install
```

5. Run Execute command (in folder *_main-server):
```
npm start
```

Application starts locally on default port 6221 and can be accessed e.g. with browser `http://localhost:6221/uu-demoappg01-main/0-0/home`.

Note that you should be able to access home page. But error will raise after you run any command from demo except /echo. It is due uuAppWorkspace isn't initialized yet. Follow next chapter to do so.

6 uuApp Initialization

! Obtain authentication token from showToken VUC. After login it shows token. This key must be used as Authorization header with value "Bearer <token>ïn all following calls.

1. Initialize uuAppWorkspace

2. Configure profiles and permissions

3. Test functionality

6.1 Initialize uuAppWorkspace

```
Use any rest client and call following calls

POST http://localhost:6221/uu-demoappg01-main»
   » /00000000000000000000000000000000-00000000000000000000000000000001/sys»
   » /initAppWorkspace
Request body:
{
    "awid": "11111111111111111111111111111111",
    "sysOwner": "<uuIdentity>",
    "licenseOwner" : {
        "organization" : {
            "name" : "Unicorn␣a.s.",
            "oId" : "154156465465162",
            "web" : "http://www.unicorn.com/"
        },
        "userList" : [
            {
                "uuIdentity" : "1-1",
                "name" : "Vladimir␣Kovar"
            }
        ]
```

```
    }
}
! Replace <uuIdentity> with your uuIdentity id.
Request initialize workspace for demo application.
```

6.2   Configure profiles and permissions

```
Use any rest client and call following call

POST: http://localhost:6221/uu-demoappg01-main»
  » /00000000000000000000000000000000-11111111111111111111111111111111/sys»
  » /setProfile
Request body:
{
    "code": "Guests",
    "roleUri": "urn:uu:GGALL"
}
Request sets all users as Guests for public rights.
```

6.3   Test functionality

Open Index in browser - Home.

You can also execute any command from the template application (e.g.
/createBook).

7   uuApp Distribution Package Creation

1. Install npm modules if they are not installed

```
cd main/client
npm install
```

2. Build client. Execute command (in folder main/client):

```
npm run dist
```

Performs build into ../server/public/ folder. 2. Package server

```
cd main/server
npm run build
```

Performs build into ../server/target/ folder.