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DIGITAL DESIGN SKILLS FOR FACTORIES OF THE FUTURE

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**Project Coordinator:**  
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All partners

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<sup>1</sup> “Any communication or publication related to the action, made by the beneficiaries jointly or individually in any form and using any means, shall indicate that it reflects only the author's view and that the Agency and the Commission are not responsible for any use that may be made of the information it contains.”

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## 1 EXECUTIVE SUMMARY

This deliverable accompanies the update release of the DigiFoF web platform V2. The information provided is hence mainly technical in nature. The purpose is to provide the reader with the information on installation prerequisites, access data to web platform files as well as installation guide.

The content on this deliverable can also be accessed at:

<http://boc-pl.com/digifof/D2.3/webplatformmanual.html>

## 2 OMiLAB4FoF web platform access data and installation guide

This tutorial describes all necessary steps required to deploy the web platform V2 for your Laboratory.

The web platform is using an open source micro-service architecture based on Olive made available by OMiLAB<sup>2</sup>. Main component of web-platform is developed with Open Source<sup>3</sup> Strapi headless CMS

Download installation files from:

<http://boc-pl.com/digifof/v2/DigiFoF-webportal-v2.zip>

This manual is based on Windows 10 (also tested in Ubuntu 18)

Prerequisites to download and install before deployment:

- latest version of node (tested 10.15.3)
- latest version of npm (tested 6.4.1)
- latest version of postgresql (tested 10.10)

 Windows PowerShell

```
PS C:\Users\dominik\Desktop> node -v
v10.15.3
PS C:\Users\dominik\Desktop> npm -v
6.4.1
PS C:\Users\dominik\Desktop> psql -U postgres
Password for user postgres:
psql (10.10)
WARNING: Console code page (850) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.

postgres=#
```

Manual consists of two parts: back-end and front-end.

### 1. Back-end deployment

**1.1 Extract provided project archive or clone project repository (if applicable).**

**1.2 Open command prompt/windows powershell/terminal inside project folder**

**1.3 run:**

npm install



```
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v2> npm install
[Progress bar] - extract:ansi-styles: http GET 200 https://registry.npmjs.org/code-point-at/-/code-point-at
```

<sup>2</sup><https://www.adoxx.org/live/olive>

<sup>3</sup> Copyright (c) 2015-2019 Strapi Solutions.

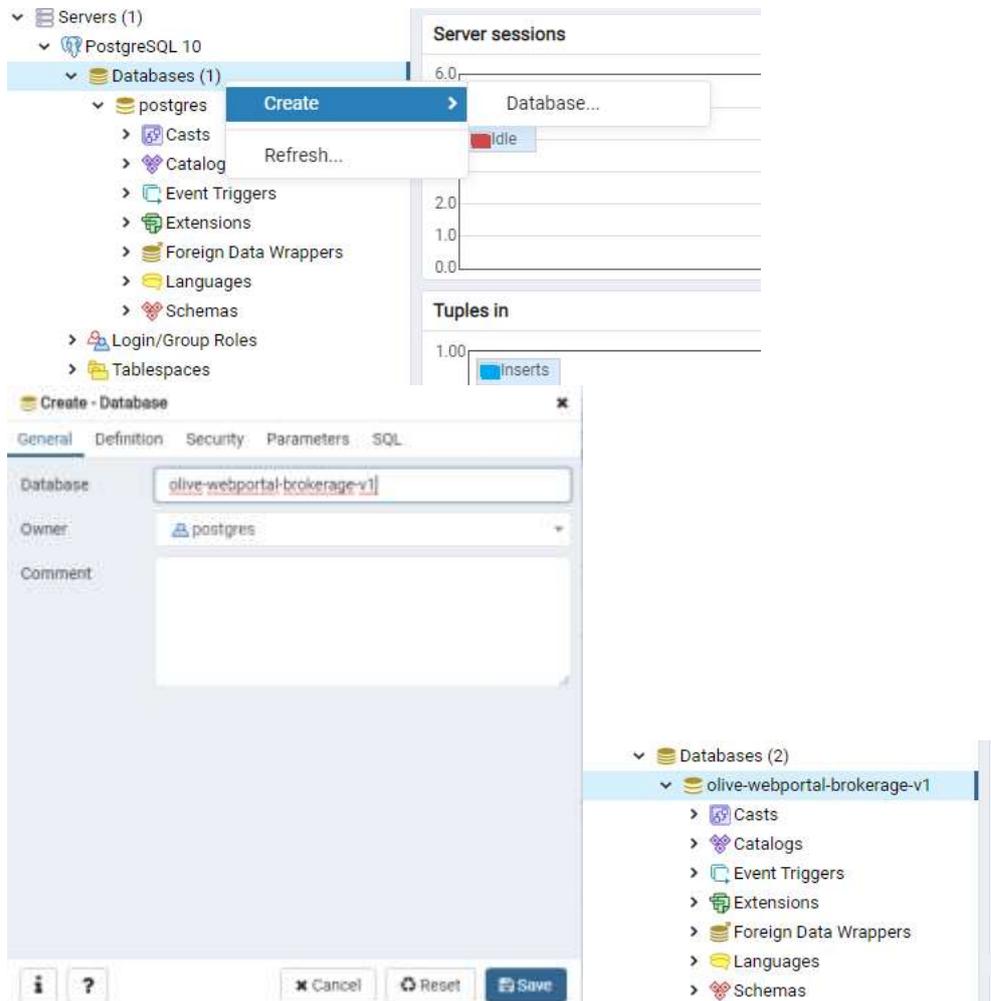
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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

#### I.4 Adjust config for database connection (set user/pass/port/host as environmental variables) or type it in '\config\environments\production\database.json'.



Note, one of the configurations is the name of the database. It should be created beforehand (for example using pgadmin gui, that comes default with postgres installation).



Database user set in config has to have all the rights to the database.

Environmental variables names:

process.env.SITE\_SECRET (secret key needed to validate captcha for user registrations)

alternatively in '\middlewares\validateUser\index.js'

process.env.PORT (internal port of application, 1337 by default)

process.env.PROXY\_ENABLE (enable proxy support)

process.env.PROXY\_SSL (enable ssl support)

process.env.PROXY\_HOST (host, where your app is at)

process.env.PROXY\_PORT (port of hosted app)

alternatively in '\config\environments\production\server.json'.

process.env.DATABASE\_HOST

process.env.DATABASE\_PORT

process.env.DATABASE\_NAME

process.env.DATABASE\_USERNAME

alternatively in '\config\environments\production\database.json'.

```

Windows PowerShell
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name SITE_SECRET -Value '0416P7gWAAAAALBFs4qhuob17pg76jpsY8w8s'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name PORT -Value '1337'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name PROXY -Value 'localhost'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name PROXY_HOST -Value '127.0.0.1'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name PROXY_PORT -Value '443'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name DATABASE_HOST -Value 'localhost'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name DATABASE_PORT -Value '5432'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name DATABASE_NAME -Value 'olive-webportal-brokerage-v1'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name DATABASE_USERNAME -Value 'postgres'
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> Set-ProcessEnvironmentVariable -Name DATABASE_PASSWORD -Value 'postgres'
  
```

You need to provide proxy config in '\config\environments\production\server.json', so that account confirmation emails would point to proper url (replace „host” value with your own).

For testing and hosting on localhost, just remove config part below:

```

"proxy": {
  "enabled": "${process.env.PROXY_ENABLE || true}",
  "ssl": "${process.env.PROXY_SSL || true}",
  "host": "${process.env.PROXY_HOST || 'digifof-brokerage-cms.herokuapp.com'}",
  "port": "${process.env.PROXY_PORT || 443}"
},
  
```

```

server - Notepad
File Edit Format View Help
{
  "host": "localhost",
  "port": "${process.env.PORT || 1337}",
  "production": true,
  "cron": {
    "enabled": false
  },
  "admin": {
    "autoOpen": false
  }
}
  
```

**I.5 run:**

npm run build

```

Windows PowerShell
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> npm run build
> olive-webportal-v1@0.1.0 build C:\Users\dominik\Desktop\olive-webportal-brokerage-v1
> strapi build
Building your admin UI with development configuration ...
/ webpack
  Compiled successfully in 1.52s
PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1>

```

npm run production

```

PS C:\Users\dominik\Desktop\olive-webportal-brokerage-v1> npm run production
> olive-webportal-v1@0.1.0 production C:\Users\dominik\Desktop\olive-webportal-brokerage-v1
> cross-env NODE_ENV=production strapi start
[2019-09-19T08:40:41.841Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.841Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.844Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.844Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.844Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.844Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:41.855Z] warn The SQL database indexes haven't been generated successfully. Please enable the debug mode for more details.
[2019-09-19T08:40:42.032Z] info Time: Thu Sep 19 2019 09:49:42 GMT+0100 (British Summer Time)
[2019-09-19T08:40:42.032Z] info Launched in: 3142 ms
[2019-09-19T08:40:42.032Z] info Environment: production
[2019-09-19T08:40:42.032Z] info Process PID: 5304
[2019-09-19T08:40:42.032Z] info Version: 1.0.0-beta.13 (node v10.15.1)
[2019-09-19T08:40:42.032Z] info To shut down your server, press <CTRL> + C at any time
[2019-09-19T08:40:42.040Z] info Admin panel: http://localhost:1337/admin
[2019-09-19T08:40:42.041Z] info Server: https://localhost

```

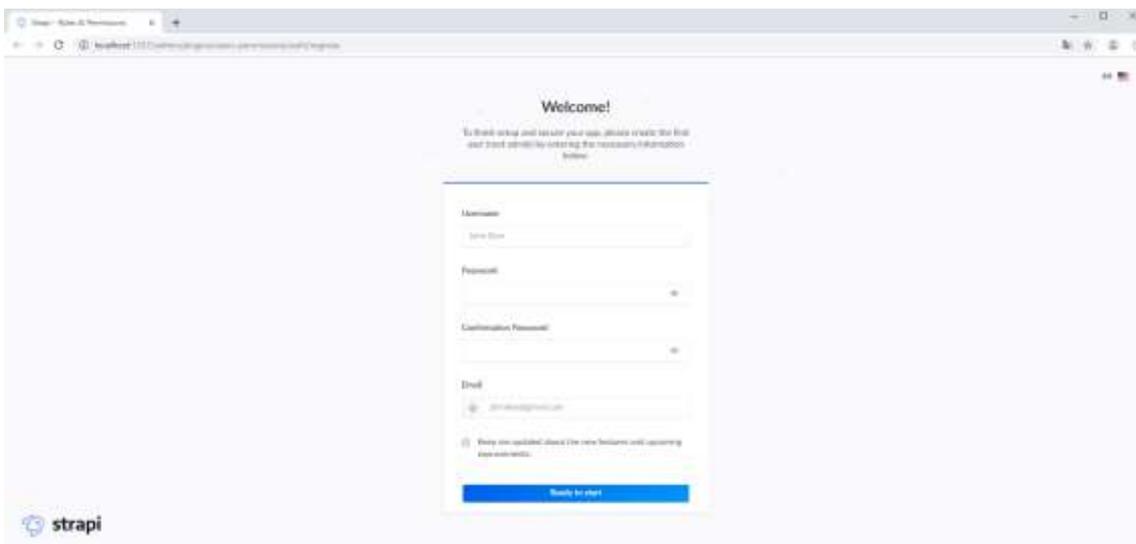
By default, your application will run on localhost, port 1337 and your admin dashboard would be available at:

<http://localhost:1337/admin>

Above is configurable in '\config\environments\production\server.json' - also environmental variable is an option.

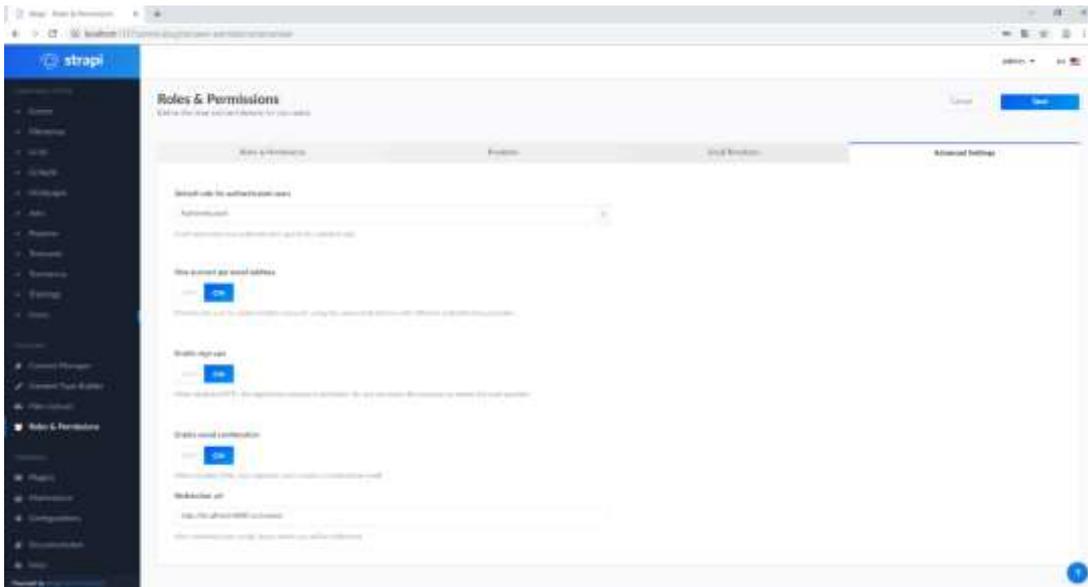
To be able to receive proper account confirmation emails, please also fill in your proxy settings if host is different from localhost.

**I.6 Now, after accessing admin panel, you can create your administrator account.**

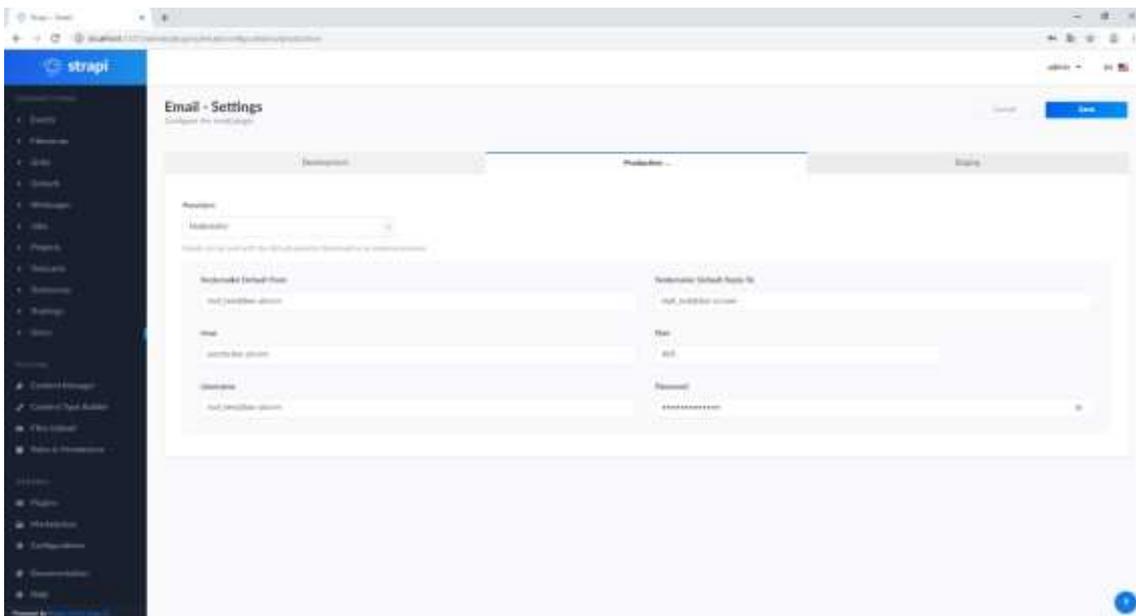


If you would like to use migration package, to see example content, now is the time, when database is empty - just run provided sql commands (migrationbrokerage.sql) on the database you created.





**I.9 Adjust your email server settings if you would like to recover passwords and confirm user accounts: plugins->email(cogwheel icon)->production.**



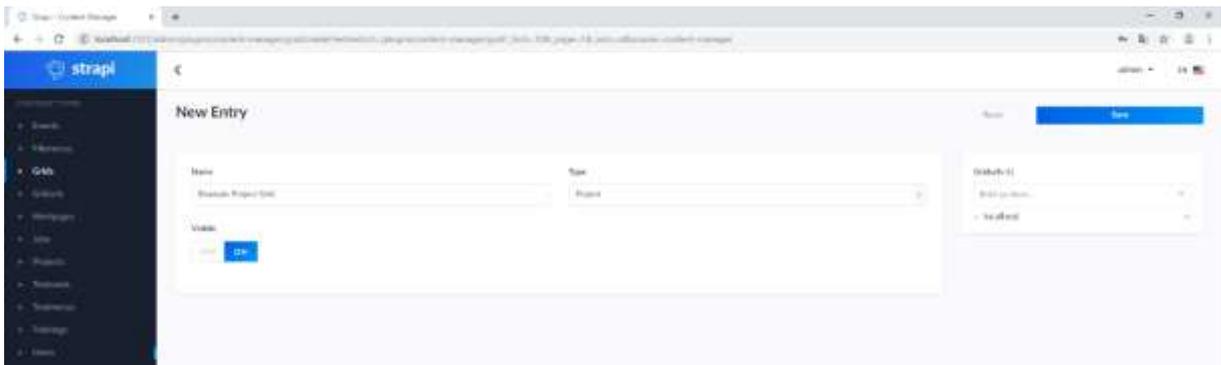
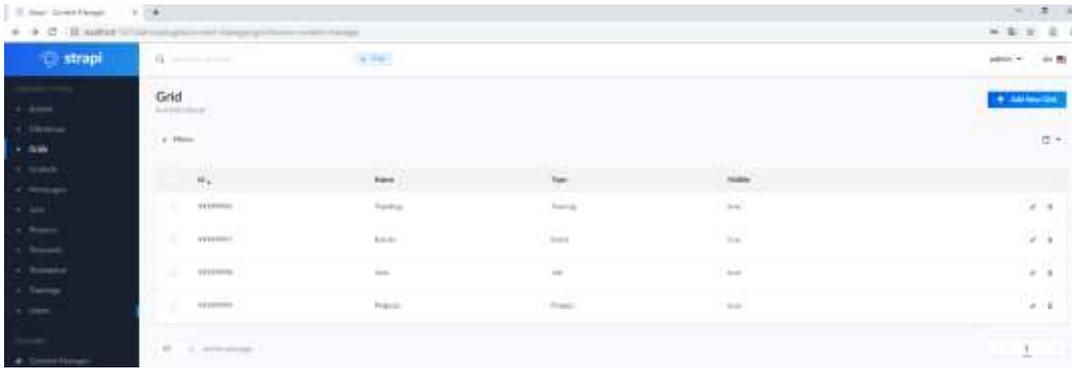
### I.10 Content creation

New content could be created, by selecting names of content types and clicking 'Add New [contenttype]' button.

After filling in required fields and clicking 'Save', new content item will be created in database.

Some fields are relations between content types. One of more important relation examples is one between 'Grid' and 'Gridurl' - to be able to use 'Grid' properly, you must create one or more 'Gridurl' items and link it with desired 'Grid' item, so the 'Grid' component in front-end application would know, where to look for data.

Please use unique names for htmlpages and grids - otherwise you will run into unexpected behaviour in frontend.



These are the most basic configuration options for back-end part of the portal.

Since web platform is created using Strapi headless cms, for more advanced configuration options, you could look at source documentation: <https://strapi.io/documentation/3.0.0-beta.x/>

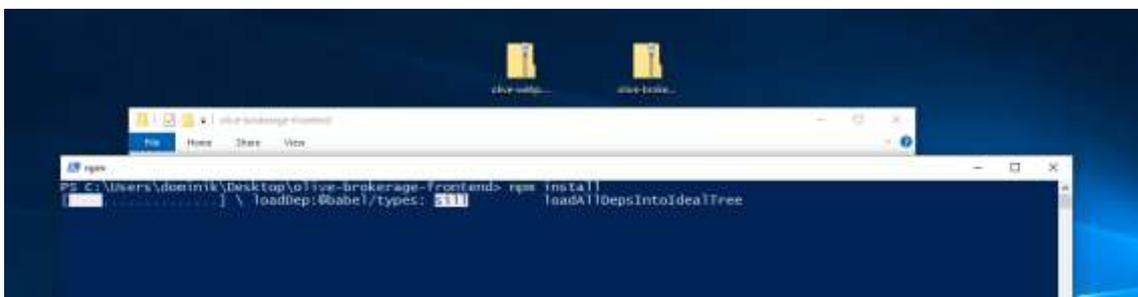
## II. Frond-end deployment

II.1 Extract provided project archive or clone project repository (if applicable).

II.2 Open command prompt/windows powershell/terminal inside project folder

II.3 run:

npm install



II.4 Adjust config in src/config.js file:

Most importantly backendurl and frontendurl - to enable communication between elements of portal.

You can also adjust styling for select components such as header or footer.

Sometimes you are not limited to styling options provided- it might be possible to add new ones.



```

const config = {
  sitekey: sitekey,
  se-verify: backendUrl,
  htmlurl: backendUrl + '/htmlpages',
  gridurl: backendUrl + '/grid',
  authurl: backendUrl + '/auth/local',
  signupurl: backendUrl + '/auth/local/register',
  resetpasswordurl: backendUrl + '/auth/forget-password',
  changedirecturl: frontendUrl + '/change-password',
  resetpasswordurlisabelt: backendUrl + '/auth/reset-password',
  styles: {
    footerimgleft: "https://digifof.eu/sites/default/files/logo_digifof.png",
    footerimgright: "https://digifof.eu/sites/default/files/images/erasmus.jpg",
    headerimg: "https://digifof.eu/sites/default/files/logo_digifof.png",
    footertext1: "<a href='https://digifof.eu/contact'>Contact/</a>",
    footertext2: "<a href='https://digifof.eu/legal-mentions'>legal mentions</a>",
    footertext3: "",
    headerimgstyle: {
      height: 100,
      padding: 0
    },
    footerimgstyle: [
      height: 70,
      padding: 20
    ],
    gridtitle: {
      fontSize: 50,
      textTransform: 'uppercase'
    },
    header: {
      background: '#FFE580'
    },
    headerliststyle: {
      fontSize: 17,
      color: '#000000',
      fontFamily: '"Roboto Condensed", sans-serif',
      fontWeight: 700,
      textTransform: 'uppercase'
    },
    footer: {
      background: '#FFE580'
    },
    footertextstyle: {
      fontFamily: '"Roboto Condensed", sans-serif',
      fontSize: 14,
      color: 'black',
    },
  },
}

```

There is also possibility to adjust most important options using process env variables:

process.env.REACT\_APP\_BACKEND\_URL

process.env.REACT\_APP\_FRONTEND\_URL

process.env.REACT\_APP\_SITE\_KEY



```

PS C:\Users\dominik\Desktop\olive-brokerage-frontend> echo %REACT_APP_BACKEND_URL%
REACT_APP_BACKEND_URL=http://localhost:1337
PS C:\Users\dominik\Desktop\olive-brokerage-frontend> echo %REACT_APP_FRONTEND_URL%
REACT_APP_FRONTEND_URL=http://localhost:4000
PS C:\Users\dominik\Desktop\olive-brokerage-frontend> echo %REACT_APP_SITE_KEY%
REACT_APP_SITE_KEY="6LFeP7giAAAAAGqo8q0e0R0u1vT9YRsf_Em8o"

```

**II.5 To enable new user registration, you also need to generate CAPTCHA site key, from <https://www.google.com/recaptcha/admin>**

After adding your domain, update sitekey in src/config.js

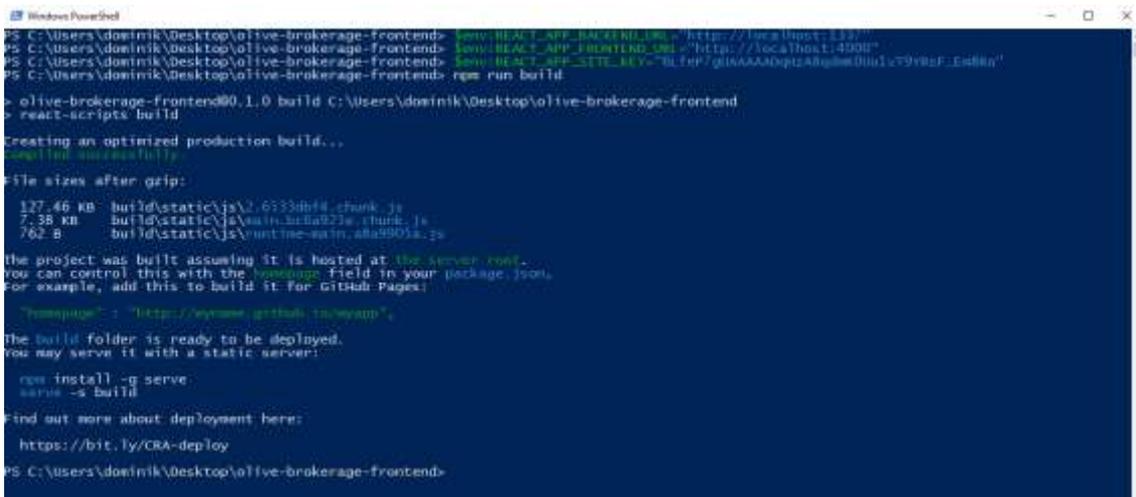
You must also add your secret to 'middlewares/validateUser/index.js' in your backend api or using env variable:

process.env.SITE\_SECRET (in your backend api process !)



## II.6 run:

npm run build



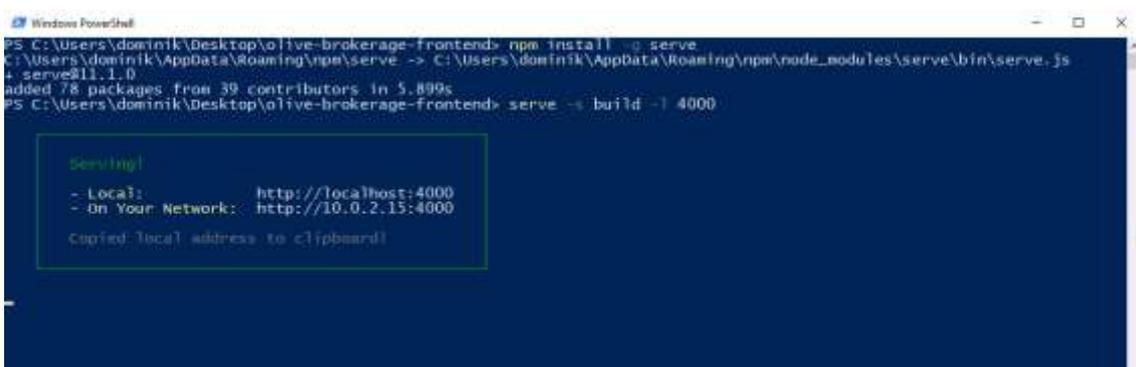
## II.7 Host the built app (build folder)

Example hosting using serve:

npm install -g serve

serve -s build -l 4000

In above example, port where your app will be available is 4000 - you can adjust it to your needs



## II.8 Having your back-end api deployed and front-end served, you should see your app server at the configured port, with example data

Please note, that if you host both apps on localhost, and you would like to test features like user registration, you would need to allow CORS in your browser (e.g. with Chrome plugin).



## Further Questions

in case of problems and for more information contact us at [faq@adoxx.org](mailto:faq@adoxx.org)

## 3 Conclusion

The release of web platform installation files and guide will allow project partners to create their own installations of web-platform which, filled with the regionalized content, will create a communication and interaction hub with the stakeholders.