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## CREAMS

Scaffolding Creativity of Arts Students: Framework, Toolchain, and  
Educational Material on how to Create their Own Virtual Exhibitions

Guide for Setting up the CREAMS Platform on a Web Server (*PR4-T4.3:  
Material for ICT specialists and Software Engineers*)

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Version 1.0

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## **Executive Summary**

CREAMS stands for *“Scaffolding Creativity of Arts Students: Framework, Toolchain, and Educational Material on how to Create their Own Virtual Exhibitions”*, a project aiming to educate and create awareness of various stakeholders in the Higher Education domain with regards to scaffolding creativity of arts students and deploying a robust and innovative framework and open-source tools for virtual exhibition creation.

This document provides the steps that an administrator needs to follow in order to set up the CREAMS platform on their organization’s web server.

## Build CREAMS Platform locally

This document includes step-by-step instructions for building the CREAMS platform (server) locally. It requires Docker technology (<https://www.docker.com/>).

*Note: The urls and folders provided in this document will be available upon finalization and delivery of the project's technologies and their respective source codes.*

First, you need to clone the repository of the CREAMS solution:

```
git clone https://github.com/cognitiveux/creams.git
```

## CREAMS Server

First, go to the source code directory of the final version:

```
cd creams/final/
```

Then, extract the **creams-server.zip** to get the source code of the backend server:

```
unzip creams-server.zip
```

Then, go to the directory of the backend server:

```
cd creams-server/server/
```

Then, build the Docker image as follows:

```
docker-compose -f docker-compose.yml build --no-cache
```

Then, create the Docker network as follows:

```
docker network create web
```

To start the Docker containers of the server, issue the following command:

```
docker-compose -f docker-compose.yml up
```

Wait until you see on the terminal the following:

Starting development server at <http://0.0.0.0:10000/>

Interactive Web API: [http://localhost:10000/web\\_app/demo](http://localhost:10000/web_app/demo)

Documentation: [http://localhost:10000/web\\_app/doc](http://localhost:10000/web_app/doc)

Furthermore, you will need to create an App password in your Gmail account. Follow the instructions here: <https://support.google.com/mail/answer/185833> to create an app password that will be used to send email via the server. Once you have an App password, modify the following file:

**creams/final/creams-server/server/django\_variables.env**

and update the values of the following variables accordingly:

**SERVER\_EMAIL=YOUR\_EMAIL@DOMAIN.COM**

**SERVER\_EMAIL\_ALIAS=YOUR\_EMAIL\_ALIAS@DOMAIN.COM**

**SERVER\_EMAIL\_PASSWORD=THE\_CREATED\_APP\_PASSWORD**