

Documentation for FakeVUT Application

Table Of Contents

Table Of Contents.....	1
Authors.....	1
Basic Information About the Product.....	1
What is VUT4?.....	1
What can a user do?.....	1
Installation and Commissioning Procedure.....	2
Prerequisites.....	2
Database Setup.....	2
Application Setup.....	2
Generating Javadoc.....	2
Important notes to take into account.....	3
Application Structure.....	3

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Basic Information About the Product

What is VUT4?

VUT4 is a web-based application designed to streamline the management and evaluation of courses with complex organization and projects, such as those involving multiple lecturers, staggered submissions, and intricate team project assessments.

What can a user do?

1. Login:
 - Login to the application using a login.
2. Home page:
 - Create and register for courses.
 - View his courses and tasks.
 - Import student and team data from CSV files.

3. Course page:

- View the course's activities (e.g., lectures, projects, exams) and available tasks.
- Manage activities : add, delete, edit, evaluate, add criteria and view statistics of the reports.
- A criteria can be a TEAM or INDIVIDUAL evaluation. If it is a TEAM evaluation, you can specify the maximum number of points for different team sizes.
- Create and assign tasks for each activity.

4. Evaluation page:

- Assess projects by criterion, team or student with automatic pre-population of feedback and points.
- Write a report to indicate what work was done for a specific task.
- Send assessments to students and teams when all the evaluations are completed.

Installation and Commissioning Procedure

Prerequisites

- Java Development Kit (JDK): Ensure you have JDK 21 or higher installed.
- Apache Maven: Ensure Maven is installed and configured on your system.
- PostgreSQL Database:
 - Download PostgreSQL from <https://www.postgresql.org/download/>
 - During the installation, make sure to install pgAdmin.

Database Setup

- Launch the pgAdmin application.
- Create a database named `fakevut` by taking the information from the file `VUT4.java` from the project.

Application Setup

- Clone or download the project repository to your local machine from GitLab: <https://gitlab.com/qjae1/fakevut4>
- Open the terminal and navigate to the project directory.
- Run the following Maven command to start the application: `mvn spring-boot:run`
- Access the application in your web browser at: <http://localhost:8081>, change the port to the one present in the `VUT4.java` file.

Generating Javadoc

- To generate the Javadoc documentation, run the following commands: `mvn clean install` and `mvn javadoc:javadoc`

- The generated documentation will be available in
`<project>/target/site/apidocs`

Important notes to take into account

- When creating a criteria, it is necessary to create criteria evaluations for all possible team sizes
- The only way to add a new user to the database is by executing directly an SQL command in the pgAdmin application :

```
insert into teacher (id, login) values (LONG, 'login')
```

- **If you are using JDK 23**, it may be necessary to explicitly specify in the `pom.xml` file the versions of some dependencies. You can replace the whole file by copying what is present in the `pom_JDK23.txt` file.
- To quickly test the application, you can execute in pgAdmin the SQL file `database_population.sql`, which will populate the application with some data. Then you can login using the login 'Zoe'.

Application Structure

The FakeVUT application follows a standard MVC (Model-View-Controller) architecture. The java files can be found in `\src\main\java\com\mycompany\vut4`.

- `controller` : Handles incoming requests and directs them to the appropriate services or models.
- `model` : Defines the application's entities.
- `repository` : Manages data persistence and retrieval from the database.
- `service` : Contains the business logic and intermediates between controllers and repositories
- `VUT4.java` : file containing the properties of the application.

The files related to the web pages can be found in `\src\main\resources`.

- `static/style` : Contains the `.css` files
- `templates` : Contains the `.html` files of the main pages.
- `templates/fragments` : Contains the reusable thymeleaf fragments, i.e header, footer and popups.