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# SQE\_ASSIGNMEN3-22F-3725

## Overview

SQE\_ASSIGNMEN3-22F-3725 is a robust text editor application designed for creating, editing, and managing documents. It offers a user-friendly interface and a variety of features, including file creation, content editing, and Arabic text transliteration. Built with Java, the application utilizes a database for data persistence.

**JUnit Test Cases**  
To ensure the application functions correctly, JUnit tests will be implemented, focusing on unit testing the key features such as file operations, content editing, and transliteration functions. Each test case will verify the expected outcomes, including boundary conditions and error handling, to maintain high reliability and performance.

## Features

* Create, edit, and delete documents.
* Support for Arabic text transliteration.
* Retrieve and manage files from the database.
* User-friendly interface for easy navigation.

## Technology Stack

* **Language**: Java
* **Frameworks**: JavaFX for the UI
* **Database**: MariaDB for data storage
* **Testing**: JUnit for unit and integration testing
* **Build Tool**: Maven for project management

## Installation

**Prerequisites**

* **Java Development Kit (JDK)**: Version 8 or above
* **Maven**: Version 3.6 or above
* **MariaDB**: Installed and running

**Clone the Repository**

```

git clone https://github.com/AbbasHafeez/SQE\_ASSIGNMEN3-22F-3725.git

```

**Build the Project**

Navigate to the project directory and run:

```

cd LAYP-RealEditor

mvn clean install

```

This command compiles the project and installs the necessary dependencies.

**Configure Database**

1. **Create a Database**: Set up a new mock DB class for the application.

```

## Usage

1. Launch the application.
2. Use the interface to create a new document or open an existing one.
3. Edit the content as needed.
4. Utilize the transliteration feature for Arabic text.
5. Save your changes to the database.

## Running Tests

To run the test suite, execute:

```

mvn test

```

This command will run all unit and integration tests defined in the project.