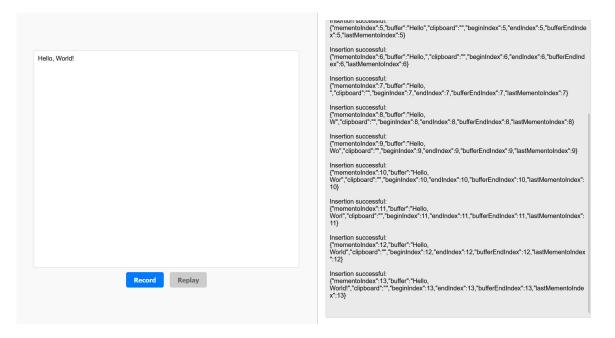




by **Benedict Wolff**, M1 Informatique CNI at the University of Rennes ISTIC for Object-Oriented Analysis and Design (ACO)gt 2024 under the supervision of **Adrian Le Roch**.



Provided below is an overview of the editor's <u>features</u>, what <u>commands</u> are supported, how to <u>download and run any of its releases</u>, and instructions on <u>how to</u> build the editor from its source code. Further documentation can be found here:

- Application design
- Application architecture
- Javadoc

PDF prints of the documentation can be found here.

Features

• Graphical user interface (GUI):

- The GUI supports inserting, deleting, selecting, copying, cutting, and pasting text as well as undoing and redoing actions.
- Actions can be recorded and replayed.
- Every action is logged in the frontend to give the user feedback on changes to the engine's state.

• Modular Backend:

- The application is built with Spring Boot, the industry standard for production-grade Java applications.
- The backend is seperated into the core engine, the service, and the controller layer.
- The Command Design Pattern is used for invoking commands.
- The Memento Design Pattern is used for the undo/redo functionality.

REST API:

- Ten REST endpoints are available for operating the editor engine.
- All endpoints are managed by the engine controller for easy API maintenance and extension.

• Testing:

- Over 100 JUnit tests have been written to ensure the correct functionality of the editor.
- The tests cover 93% test of all classes, branches and lines of the backend.

Commands

Command	Description
Insert	any single character
Select	SHIFT + →, SHIFT + ← or use the mouse
Select all	SHIFT + A

Command	Description
Delete	Backspace
Сору	CTRL + C
Cut	CTRL + X
Paste	CTRL + V
Undo	CTRL + Z
Redo	CTRL + Y
Record	The editor starts recording every further action.
Replay	The editor replays every recorded action individually in the backend until it reaches the latest state.

Downloading and running a released version

Prerequisites

- Java 17 or later
- A browser (e.g., Chrome, Firefox).

Download and run a release

All releases of the mini text editor can be found here.

After downloading any of the published .jar releases, simply execute the following command in the same folder as the .jar file to run the editor:

Each release also contains a downloadable .zip file that includes the editor's source code and the unit tests written for each version.

Access the frontend of the mini text editor in your browser of choice by opening the following URL:

http://localhost:8080

How to build the editor from source code

