

User Manual

Exam Clock & Information Application

Date: 24-Feb-2025 | Exam Start: 09:00 | Exam End: 11:00

?

Settings

X

09:06:07

Code	Subject	Seats
AFP1144	MECHANICS	1 - 99
CMA4124	MATHEMATICAL TECHNIQUES 2	100 - 150
CMT1134	MATHEMATICS III	151 - 200
GFE6213	BASIC ECONOMETRICS	201 - 250
GNQ6133	MATHEMATICS	251 - 300

1. Introduction

The Exam Clock & Information Application is a full-screen tool designed to support exam administration. It displays a large digital clock, exam timing details, a dynamic progress bar indicating exam duration, and a subject table with seating arrangements.

While the application includes a Demo Mode and Drag-and-Drop Layout Editing, these features are still in development and may not work as expected (see Section 6 for more details).

2. Features

Real-Time Digital Clock:

Displays the current time in a large, visible format (font size can be changed).

Exam Details Header:

Displays the exam date, start time, and end time.

Dynamic Progress Bar:

Indicates the time remaining and changes color as the exam nears its end (green → orange → red).

Subject Information Table:

Lists subject codes, subject names, and seating rows.

Double-click on any subject row to open an edit dialog for corrections.

Flexible Configuration:

On startup, the application lets you choose to create a new configuration, load the last saved configuration, or load a pre-configured setup from a CSV file.

Demo Mode (Experimental, May Be Clunky):

Simulates an exam session for testing, but it may not always run smoothly.

Drag-and-Drop Layout Editing (Not Fully Functional):

Allows you to reposition UI elements for different display setups, but it may not work correctly on all screen sizes.

3. System Requirements

Operating System: Windows

No additional software installation required.

The EXE version does not require Python or any dependencies.

4. Installation and Running

4.1 Running the Application

Download the EXE: Copy ExamClock.exe to a desired folder. You can also copy the pre_config.csv and subject_log.json file in the same folder.

Run the application: Double-click ExamClock.exe.

4.2 Pre-Configuration CSV

If using "Load Pre-Config", the app checks for pre_config.csv in the same folder.

If not found, it creates a blank CSV for you to fill with exam details.

4.3 Subject Log (subject_log.json)

The *subject_log.json* file is used by the application to store subject codes and their corresponding names. This ensures that previously entered subject details can be recalled and auto filled when entering new configurations. The subject log improves efficiency by reducing redundant data entry and minimizing errors.

How It Works

- Each time a new subject is entered, its code and name are saved in *subject_log.json*.
- The next time the same subject code is entered, the application will automatically suggest the corresponding subject name.
- If a subject code exists in the log, it will autocomplete after typing the first few letters.

File Location

The file is stored in the same directory as the application (*subject_log.json*).

Editing the Log

- You can manually edit *subject_log.json* with a text editor if necessary.
- If incorrect subject names were saved, you can correct them in the file or update them via the inline editing feature in the app.

Resetting the Log

- If needed, you can delete `subject_log.json`. The application will recreate it when new subjects are entered.
- However, deleting the file will remove all stored subject names, and you will need to re-enter them manually.
- This feature makes subject entry faster and reduces the chances of entering incorrect subject names during configuration.

5. How to Use the Application

5.1 Startup Configuration

On launch, select one of the following:

New Config: Enter details manually.

Load Last Config: Resume your last saved session (useful if the application crashes).

Load Pre-Config: Import exam details from a CSV file.

5.2 Main Screen

Header: Displays exam date and time.

Clock Display: Shows the current time in large digits.

Progress Bar: Indicates exam progress.

Subject Table: Lists subject codes, names, and seating rows.

Double-click any row to edit the details.

5.3 Additional Options

Settings (⚙): Adjust fonts size, colors, and other settings.

Help (?): View instructions.

Exit (X): Close the application.

6. Known Issues & Workarounds

6.1 Demo Mode

Demo Mode may behave unpredictably when simulating an exam session.

Solution: Restart the application if Demo Mode does not reset correctly.

6.2 Drag-and-Drop Layout Editing

While enabled, some elements may not move as expected.

Solution: This feature is experimental. A future update will improve usability.

7. Feedback and Support

If you encounter issues or have suggestions:

Contact: julienpierre@mmu.edu.my

Frequently Asked Questions (FAQ)

1. What is the Exam Clock & Information Application?

A tool for exam administration that displays a digital clock, exam details, a progress bar, and a subject table.

2. How do I run the application?

Double-click ExamClock.exe. No installation is required.

3. What configuration options are available?

New Config: Enter details manually.

Load Last Config: Resume previous settings.

Load Pre-Config: Import settings from a CSV file.

4. How does the subject table work?

Displays subject codes, names, and seating rows.

Double-click any row to edit it.

5. What is Demo Mode?

It simulates an exam session but may not work smoothly.

If you experience issues, restart the application.

6. How do I change the layout?

Drag-and-Drop Layout Editing allows repositioning UI elements.

However, this feature is not fully functional and may not work as expected.

7. Why does the app ask for my system time?

In some exam halls, the PC is not connected to the network and the time is not synchronized. If no internet is detected, you will be prompted to verify the time, if the time is correct just continue, if the time is wrong enter it in the requested format.

8. Who should I contact for feedback?

Contact: julienvpierre@mmu.edu.my

9. Why does the app look so bad and is badly coded?

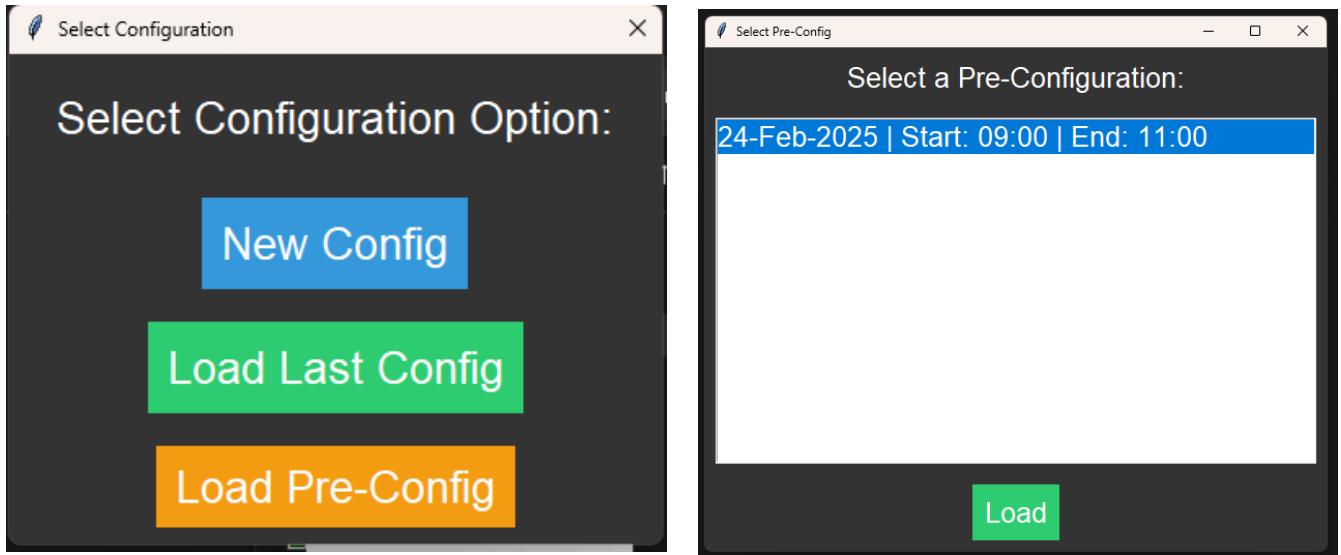
That is because I am **not a professional coder**. I build things in my spare time using *dirty coding techniques*, and I have **no formal education in programming whatsoever**. Despite this, the app works (mostly), and I am constantly improving it based on feedback.

If you have any suggestions to make it better—or if you are a coder and want to help—feel free to reach out!

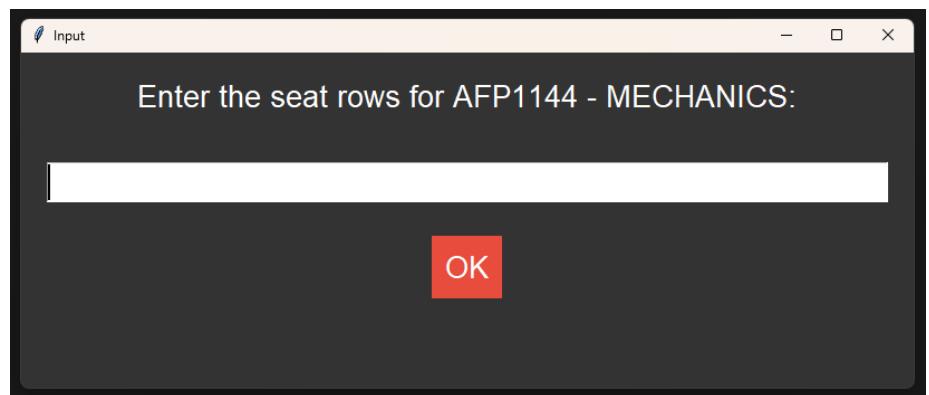
Merci. 😊

Screenshots

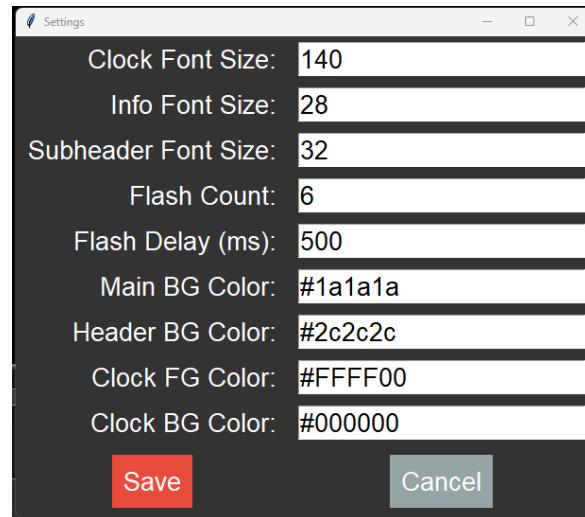
Configuration menu



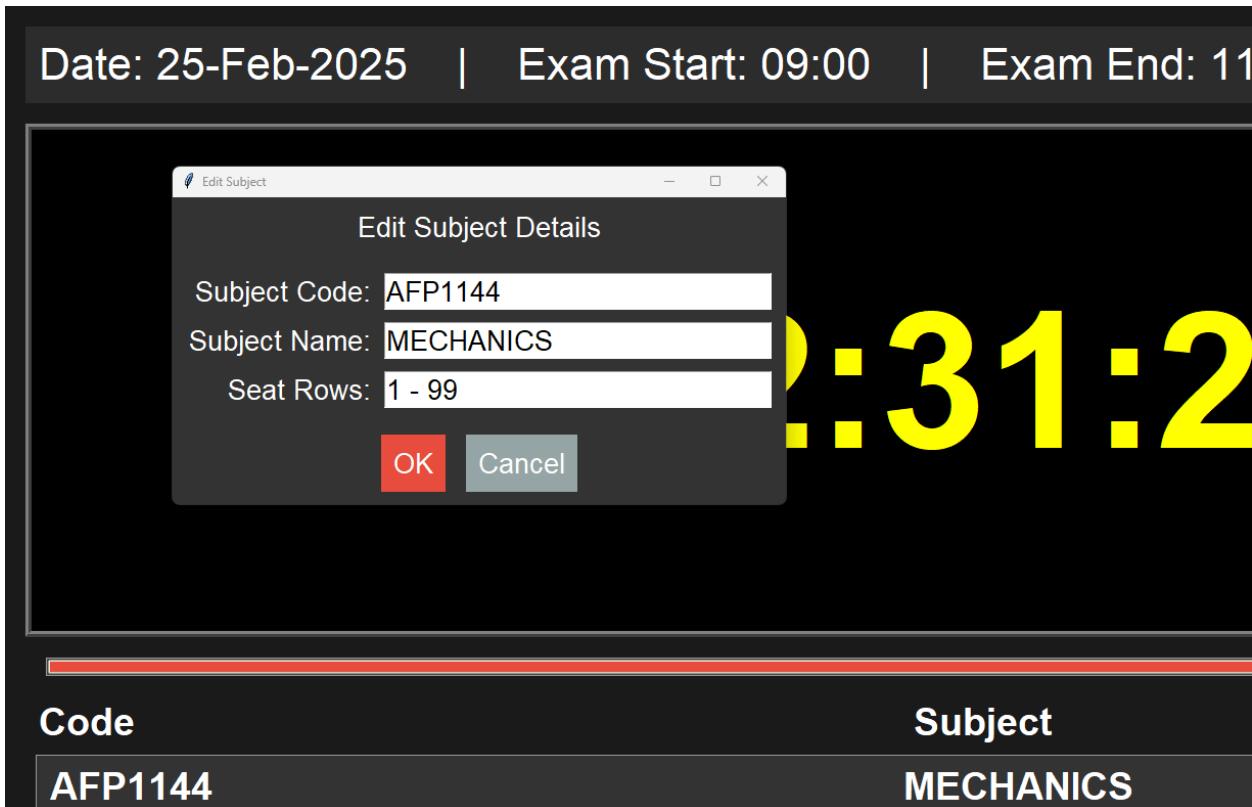
Seat/rows menu



Settings menu



Inline subject editing



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