

**S.I.G.I.E**

Chronos

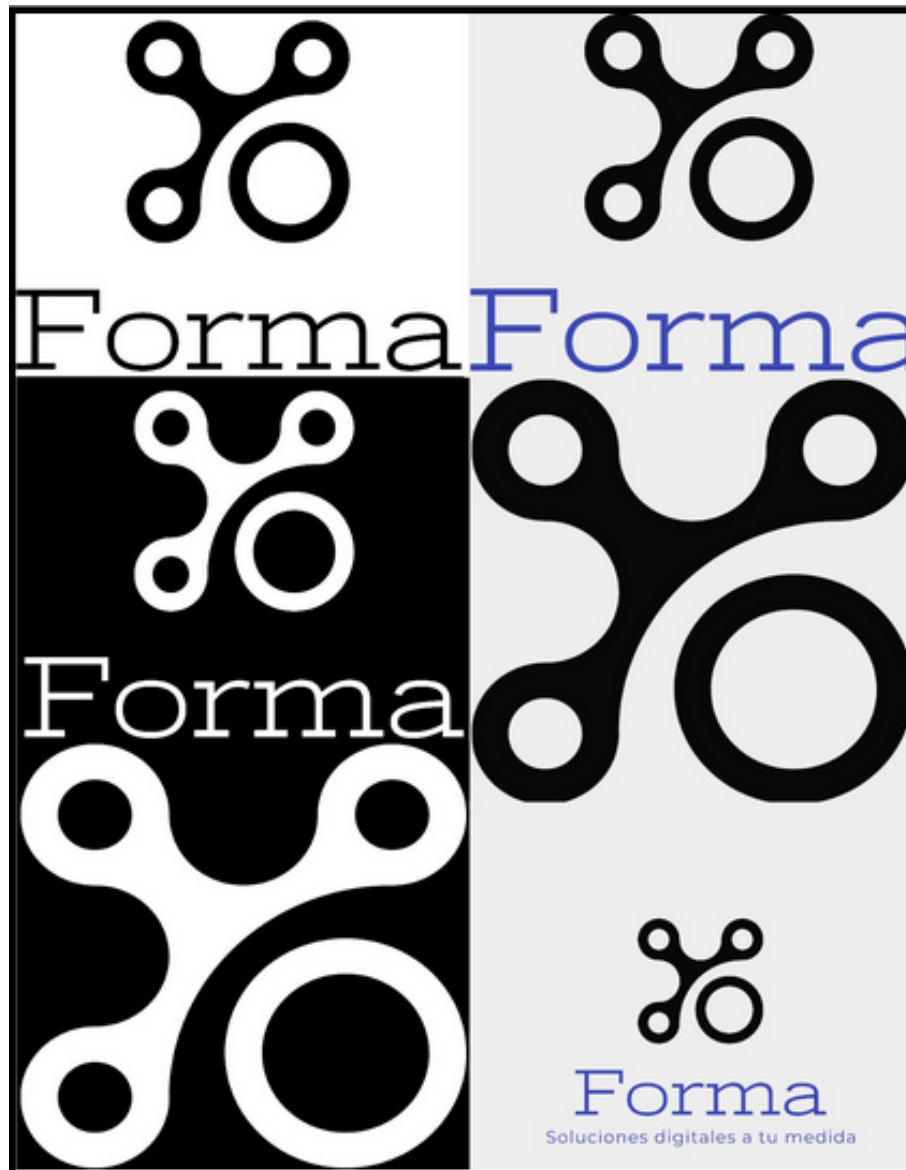
English

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Teacher: Gervasio Moreira

Due date: 11/03/2025

**Third Submission**



The Forma logo is a logotype, with an abstract symbol at the top and the name at the bottom in lowercase, created using an elegant and modern geometric serif font. The choice of color will be explained later.

Our name "FORMA" refers to structure, design, and creation as conscious processes. In Latin, "forma" also refers to the mold and essence of something. For us, it represents both the result and the method, the tangible and the conceptual.



At Forma, we want to represent the following values:

Intelligent design: each component is designed to offer aesthetic and functional value. Form is not only about appearance, but also about visual purpose.

Modular collaboration: we are a set of elements that work best when connected. We consider ourselves an open and harmonious system.

Functional simplicity: we avoid the superfluous so that the essential stands out. Our solutions are intuitive, accessible, and elegant.

Constant transformation: we adapt fluidly to the challenges of the digital environment. Every change is an opportunity to redefine our best version.

The symbol uses **Ebony**, a deep black. This color conveys authority, professionalism, and confidence. In the context of the FORMA logo, it reinforces the sense of solidity and timeless presence, essential aspects of any technology- or design-focused identity. The text uses a blue-purple hue, a color that balances stability, creativity, and relaxation.

This modern shade conveys a young, confident, and energetic brand image that embraces both logic and inspiration.

The combination with black provides contrast, sophistication, and legibility, creating a clear and consistent image.

## Timetable System Features

The timetable system generates timetables based on information provided by each professor and/or coordinator.

Coordinator: Can view and edit timetables.

Teachers, Students, and Parents: They can only view timetables without making changes.

Administrator: Can add, delete, and edit schedules, users, and groups.



## PROJECT CLOSING DOCUMENT

Project: S.I.G.I.E. (Integrated School Management System) - Chronos Client: Italian School of Montevideo

Closing Date: November 3, 2025

Prepared by: Juan Chapuis, Project Coordinator

### Metrics (Results)

The final project execution metrics are detailed below, demonstrating the achievement of objectives within the planned parameters.

Actual Project Duration: June 24, 2025 - November 3, 2025 (19 weeks).

Total Effort (Man-Hours): 1,235 hours.

Estimated Labor Cost: \$30,875 USD (calculated at an hourly rate of \$25 USD/hour).

Requirements Compliance: 100% of Functional Requirements (FR) and Non-Functional Requirements (NFR) specified in the Requirements Specification Document (ESRE) have been implemented and verified satisfactorily.

### Training Plan

To ensure effective adoption of the system by end users, the following training plan has been established:

Materials Delivered:

Administrator Manual: Comprehensive documentation for overall system management and configuration.

End User Manual: Practical guide for coordinators, teachers, and parents, focused on consultation and self-management features.

Methodology: Asynchronous training using the documentation provided, allowing users to familiarize themselves with the platform at their own pace.



## **Infrastructure Cost**

The project was developed and implemented using an open source technology stack, which resulted in minimal infrastructure costs.

Cloud Services: \$0 USD. No external hosting or VPS services were required for this phase.

Domain: \$0 USD. The client did not require a specific domain to be set up for this implementation.

Configuration and Scripting: The costs associated with Docker container configuration and orchestration were covered as part of the development effort.

Total infrastructure cost: \$0 USD.

## **Licensing costs for use**

In line with the philosophy of using open technologies, no commercial licensing costs were incurred.

Technology stack: PHP 8.3, PostgreSQL, Nginx, Docker. All technologies used are open source and royalty-free.

Total licensing cost: \$0 USD.

## **Support**

The following post-implementation support framework is established to ensure initial system stability:

Type of support: Remote technical support for functional and technical consultations.

Channels: Via email.

Duration: 3 months from the closing date (November 3, 2025 - February 3, 2026).

Scope: Resolution of doubts regarding the use of manuals and the basic functioning of the system.

**Deliverables**

The successful delivery of the following components is confirmed, in accordance with the provisions of the start-up document:

Source code of the S.I.G.I.E. Chronos web application.

Database configured and populated with the initial structure.

Technical documentation and user manuals.

Docker containers for simplified distribution.

Complete functional modules:

User and role management.

Teacher and availability management.

Subject and group management.

Module for generating and modifying timetables.

Display of timetables by group and teacher.

Authentication and authorization system.

99% of the functional requirements listed in the ESRE have been implemented.

**Final prices**

The S.I.G.I.E. Chronos system was developed and delivered as a donation to the Italian School of Montevideo.

Final price of the product: \$0 USD.

Justification: This project was created as an academic and internal innovation initiative, with the aim of optimizing the institution's processes without incurring licensing costs.

**Purchase plans**

Not applicable. The delivery model is through donation, so there are no purchase plans, recurring licenses, or fees associated with the product.

**Stakeholder Validation**

This document certifies that the S.I.G.I.E. Chronos project has been completed, delivered, and formally accepted by the parties.

**CUSTOMER ACCEPTANCE**

The undersigned, representing the Italian School of Montevideo, formally accepts delivery of the S.I.G.I.E. Chronos system.

Representative's Name:

Position: Representative of the Italian School

Date: November 3, 2025

Signature:

**DEVELOPMENT TEAM COMPLIANCE**

I, the undersigned, representing the Chronos development team, certify that the project has been completed in accordance with the established requirements.

Representative Name: Juan Chapuis

Position: Project Coordinator - Chronos

Date: November 3, 2025

Signature:



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