

Interação Pessoa-Máquina
2024/2025

NOVA Nexus

Stage 4: Functional Prototype



Authors:

60247, Frederico Silva
60460, Rita Lopes
60517, Miguel Ferreira
60608, Rafael Tavares

Lab class N° P1

Group N° 1

Professor:
Teresa Romão

Month 10, 2024

Contents

Startup instructions	3
Briefing	3
Scenarios	3
Scenario 1	3
Scenario 2	3
Scenario 3	4
Prototype	4
URLs	5

Startup instructions

Our project was designed for use on computers, and we recommend using a larger screen, such as a monitor, to enhance the user experience. While all features are fully accessible on a standard PC screen, a larger display offers a noticeably improved experience. We recommend a resolution of 1920x1080.

To test our project, simply access the URL: <https://rbtavares.com/miei-ipm-demo/>.

Briefing

The NOVA Nexus platform is an innovative academic management system designed to streamline essential tasks for students at NOVA SST University. With a focus on user-friendly design tailored to students' needs, the platform simplifies managing academic schedules, submitting assignments, registering for courses, accessing course materials, enrolling in tests and handling tuition payments.

NOVA Nexus is a modern, intuitive solution that prioritizes accessibility and efficiency, offering a clean and straightforward interface that saves time and enhances productivity. Built as a new and significantly improved version of CLIP, it eliminates unnecessary complexity, allowing students to focus fully on their academic journey.

Scenarios

Scenario 1

Martim and his group have completed their **Project 2 assignment for the IPM course** and need to submit it. The group decided that Martim would be responsible for the submission, as the teacher only accepts one submission per group. Martim logs into the *Nova NEXUS* platform and **submits the assignment**. He **decided to add a comment** with information about the group. He remembers that he also needs to pay the tuition fee, so he does that.

Scenario 2

Martim is starting his third year in Computer Science and Engineering and needs to **choose an elective course**. After researching the available options, she becomes interested in the **Qualidade de Software (QS)** course. He logs into the

Nova NEXUS platform and **enrolls in the Qualidade de Software course**. He then remembers he also needs to **register for the course shifts**. To determine which shifts best fit his schedule, he reviews the shift distribution. Since there is only one **theoretical shift, he selects it and focuses on choosing a practical shift**. After assessing his schedule, he decides that **P1 is the best option**. He checks the shift's availability and proceeds to sign up for his preferred shift.

Scenario 3

Martim and his group began writing their report for the Project 2 assignment in the IPM course. During the class, the professor mentioned some requirements, but Martim doesn't quite remember the exact details. To clarify, Martim **visits the IPM course's forum to start a thread about Project 2** challenges. However, he notices that **the professor has already started a thread on the topic, so he comments on it**. His colleagues respond, clarifying his doubt, and **Martim replies with a message of gratitude**.

Prototype

Our project currently **only includes the front-end**, allowing us to present a polished interface and meet the objectives of the assignment. As a result, users testing our work won't see their progress saved. However, we focused on ensuring the project achieves high fidelity in both look and feel, making user actions produce visible consequences, even if they are not permanently stored.

We also ensured that users could complete all scenarios and see the outcomes of their actions, while also providing additional optional actions for those who wish to explore further. However, we must note that there is some feature where users won't see a result:

- When attempting to access specific documents within the project (such as course materials or tuition fee invoices). In these cases, they will be redirected to a *Not Found* page. Ideally, this action should open a new page displaying the selected file.
- The buttons labelled *Google SSO* and *SAML Login* on the login page were supposed to redirect users to their respective login methods, as we

envisioned the application supporting these types of authentications. However, since they are not functional at this stage, we kindly ask that you use the default login button instead.

- The *Settings* button in the upper-right corner is also not fully functional. We envisioned an interesting feature for users: the ability to change the website's background. While we began development on this feature, we ultimately prioritized the core functionalities, leaving it incomplete. So, the *Settings* button should change the background, and in the future, we also considered adding the option to change the website's language.

Tech stack:

- Deployment: *GitHub Pages*;
- JavaScript Framework: *React JS*;
- Build Tool: *ViteJS*;
- Design Tools: *TailwindCSS* and *shadcn/ui*.

URLs

Github Prototype URL: <https://github.com/rbtavares/miei-ipm-demo>

Github Project URL: <https://github.com/rbtavares/miei-ipm>

Project URL: <https://rbtavares.com/miei-ipm/>

Prototype URL: <https://rbtavares.com/miei-ipm-demo/>