

Digital Mavericks:

Student Asset Management is a web-based application that facilitates the management of student resources, learning, data and retention.

Objectives

1 Dropout Rate Reduction

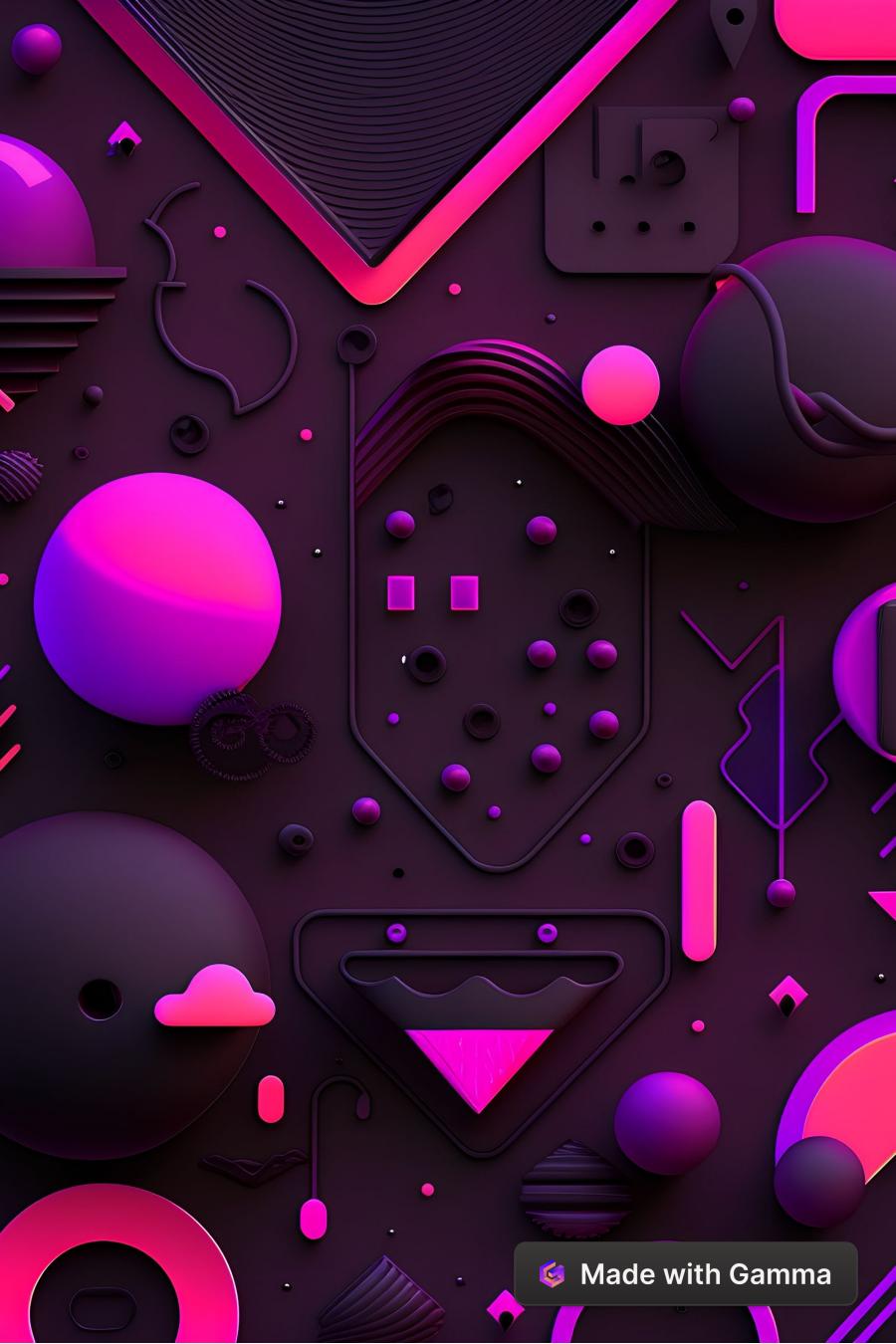
Work to reduce the dropout rate in STEM majors.

2 Access to Academic and Community Resources

Provide access to resources that benefit students in their learning and development.

3 Personalized Support

Provide individualized support to students to ensure their academic success and prevent dropout.



Proposed Solution

The project consists of developing a comprehensive software platform to support students in STEM careers. The main objective is to reduce dropout rates in this field. The platform will provide academic resources, personalized tutoring, community and follow-up support processes.

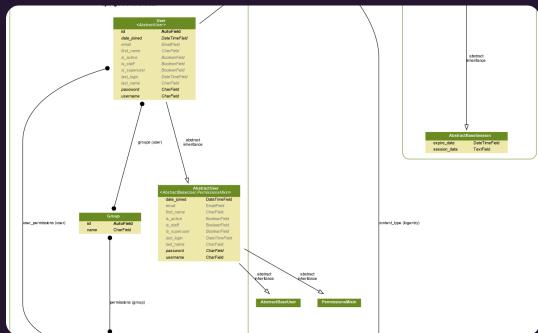
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Scope

- Data collection system
- Academic resource library
- Identification of critical moments to embrace the solution
- Educational community (learners/tutors)
- Generation of internal statistics
- Constant user feedback for functionalities and solutions

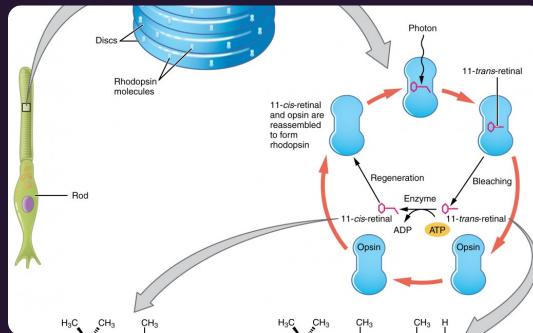


Architecture



Server

We will use Django Rest Framework for server development.



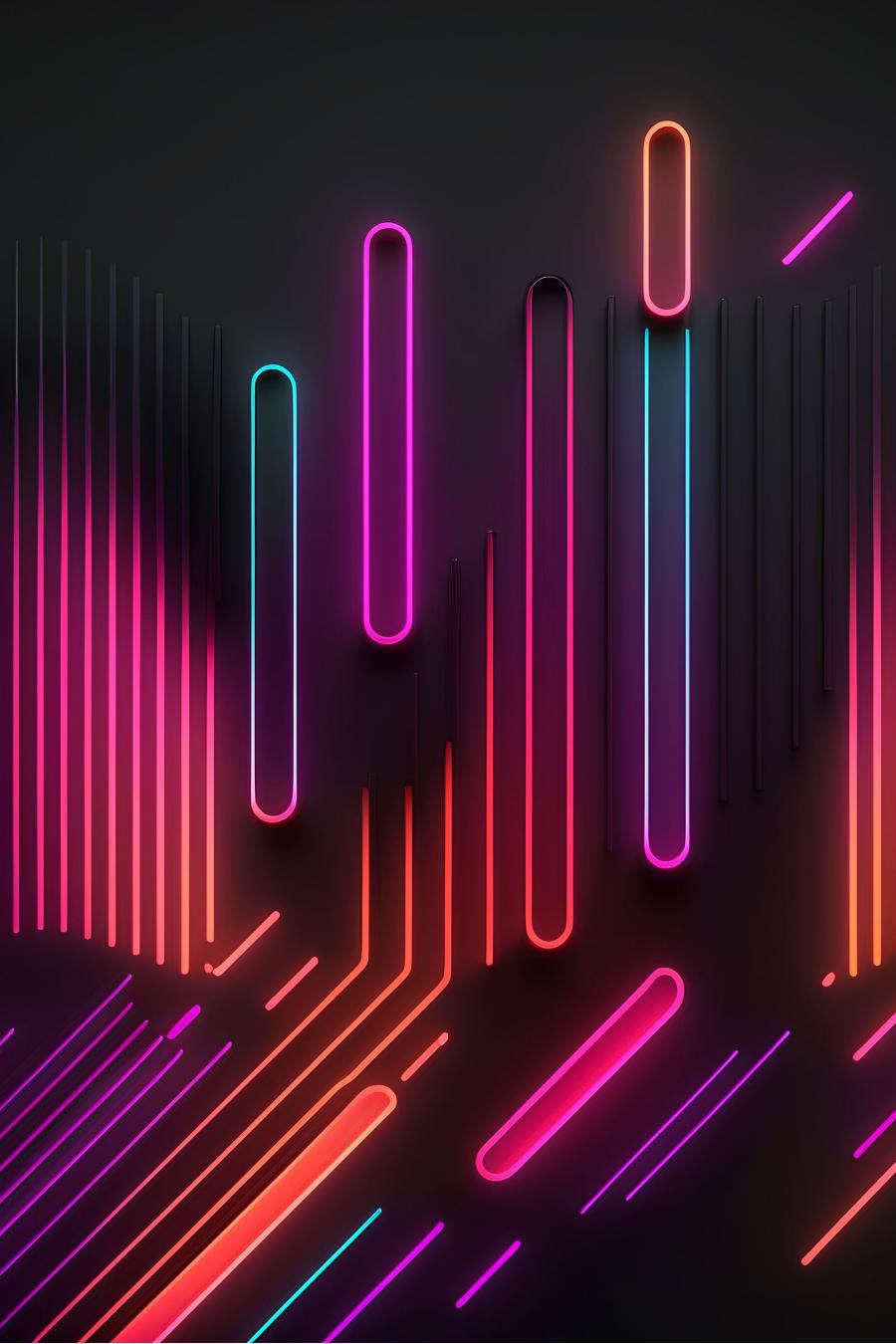
Client

Vite React will be used for client development.



Styles

Tailwind will be used for the implementation of styles in the platform.



Work Methodology

We will follow an agile work methodology using Trello for task management and project tracking.

[Trello - Sena Soft 2023](#)



Mockups

We will perform the modeling of mockups in the Figma tool to have solid bases for the development of the interface.

[Prototipo SENASoft 2023](#)

Roles and Responsibilities

1

Business Analysis

Daniel will be responsible for business analysis, identifying project requirements and objectives.

2

Backend Development

Daniel will be in charge of backend development and database management.

3

Frontend Development

Miller and Juan Jose will work on the frontend development, implementing the user interface and user experience.

4

Quality Testing

Miller and Juan José will carry out the quality testing to ensure that the platform works properly.

Conclusions

1 Positive Impact

The platform has the potential to generate a positive impact on STEM education by addressing dropout and providing support to students.

2 Effective Collaboration

Teamwork among the different roles is essential to the success of the project.

3 Innovation and Technology

Implementation of the latest technologies will ensure a modern and efficient user experience.