University Study Platform

Created by team **ASP 44**

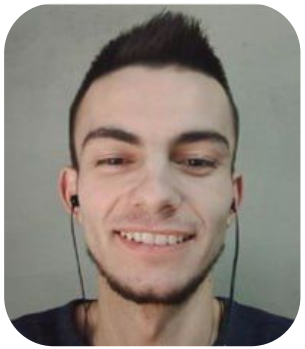
Team members and responsibilities

Nazar Hrubiy

Fullstack Developer &
Tester

Ksenia Hovorun

Fullstack Developer &
Project Manager



Andrii Kuzmych

Fullstack Developer &
UI Designer

Project Overview

- University platform designed to facilitate interaction between students and faculty
- Allows uploading, storing, and checking homework
- Ability to assign tasks and individual tasks to students
- System of messages between users

Project Goals and Planning

Goals & objectives

The system aims to achieve the following:

- Provide a user-friendly UI/UX.
- Digitalize all key aspects of learning and communication between participants in the educational process.
- Implement a centralized database to store student records, grades, and schedules.
- Provide real-time updates for student progress and academic records.
- Integrate role-based access control (students, teachers, administrators).

Problems to solve

Our system aims to address the following problems:

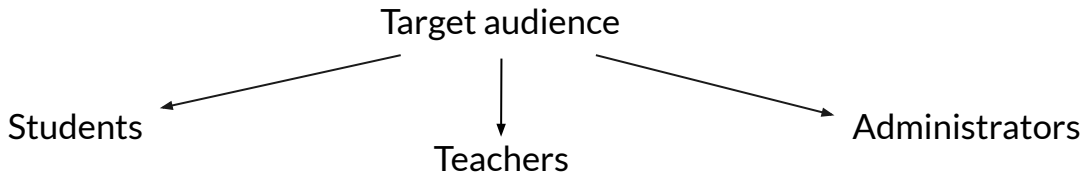
1. Inefficient student data management.
2. Lack of centralized course and assignment tracking.
3. Unstructured communication between students and teachers.
4. Scheduling conflicts and lack of real-time updates.
5. Absence of automated reporting.
6. Time-consuming evaluations.

Expected outcomes

The system will provide the following benefits:

1. A centralized platform.
2. A user-friendly web interface.
3. Convenient communication.
4. Reduced administrative workload.
5. Improved academic performance tracking.
6. Enhanced security.

Target audience & stakeholders



Stakeholder	Role & Interest in the System
University Administration	Seeks to improve efficiency in student management, reduce staff workload.
Teachers & Faculty	Require tools to manage courses, track student performance, and communicate with students efficiently.
Students	Expect a user-friendly platform for tracking academic progress, assignments, and communication with teachers.
Development Team	Responsible for system development, security, and maintenance.

Projects constraints

Constraint	Description
Time Constraints	The project must be completed within the allocated development timeline.
Team Size Constraints	The development team size is limited, which may affect the speed of development and require prioritization of core features.
Budget Constraints	Limited financial resources may affect third-party integrations. Free and open-source technologies are prioritized.
Technology Constraints	The system must be developed using web-based technologies.
Security & Compliance Constraints	The system must ensure secure storage of personal records.
User Accessibility Constraints	The platform must be accessible across different devices.
Performance Constraints	The system should ensure low latency and high availability, but infrastructure limitations may affect performance under high traffic.

Requirements and Engineering

Functional requirements

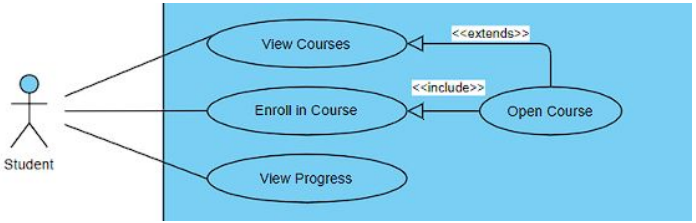
- Account management.
- Assigning students to groups.
- Assigning instructors to subjects and courses.
- Class schedule management.
- Assignment management.
- Student assessment.
- Managing individual student assignments.
- Course messaging.
- Student performance analysis.
- Assessment method management.

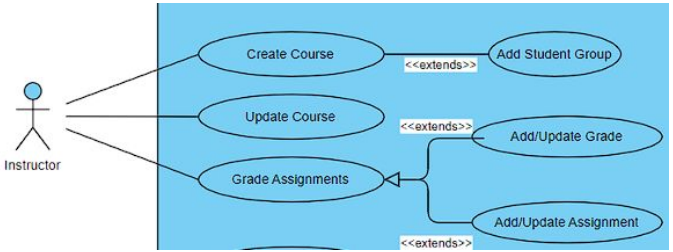
Non-functional requirements

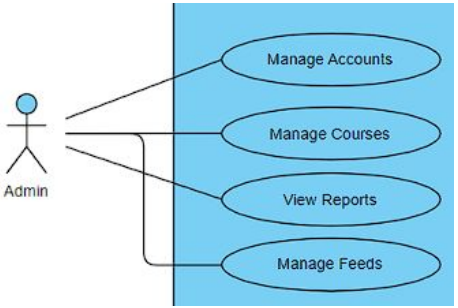
Main requirements:

- Web-Oriented Architecture.
- Performance.
- Security.
- Portability.
- Usability.

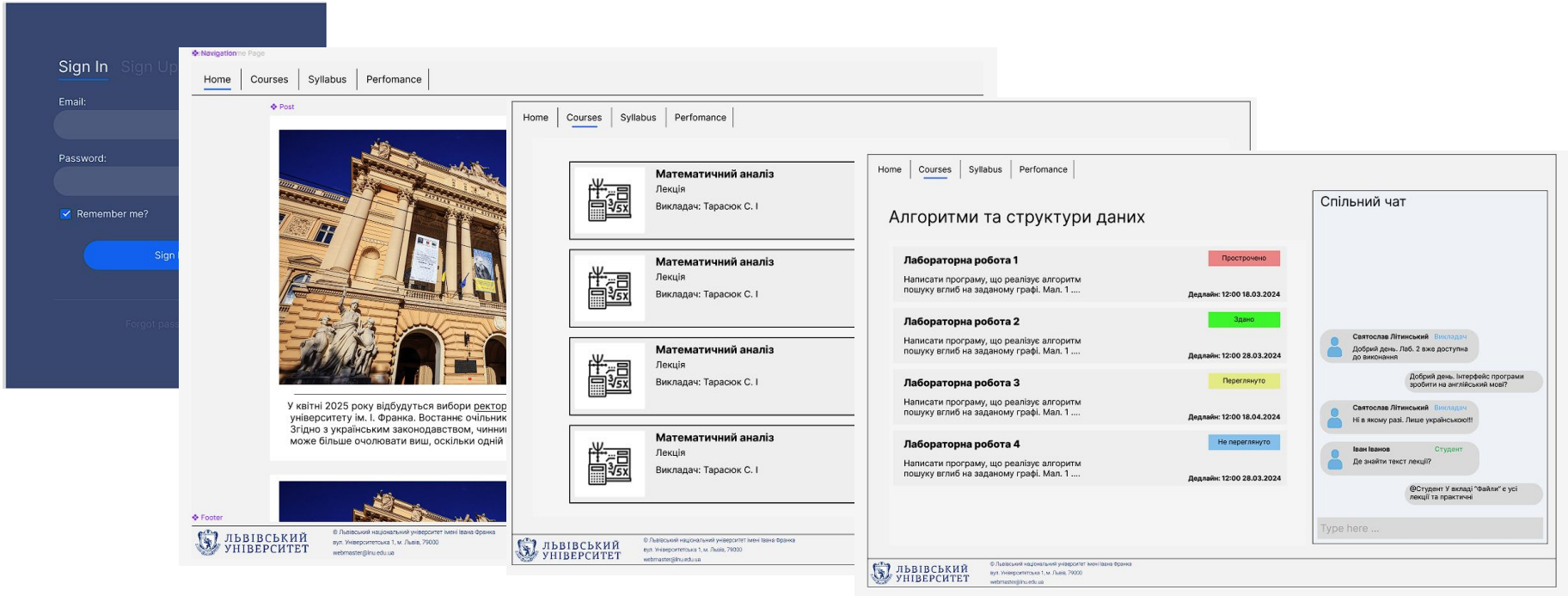
Use Case diagram



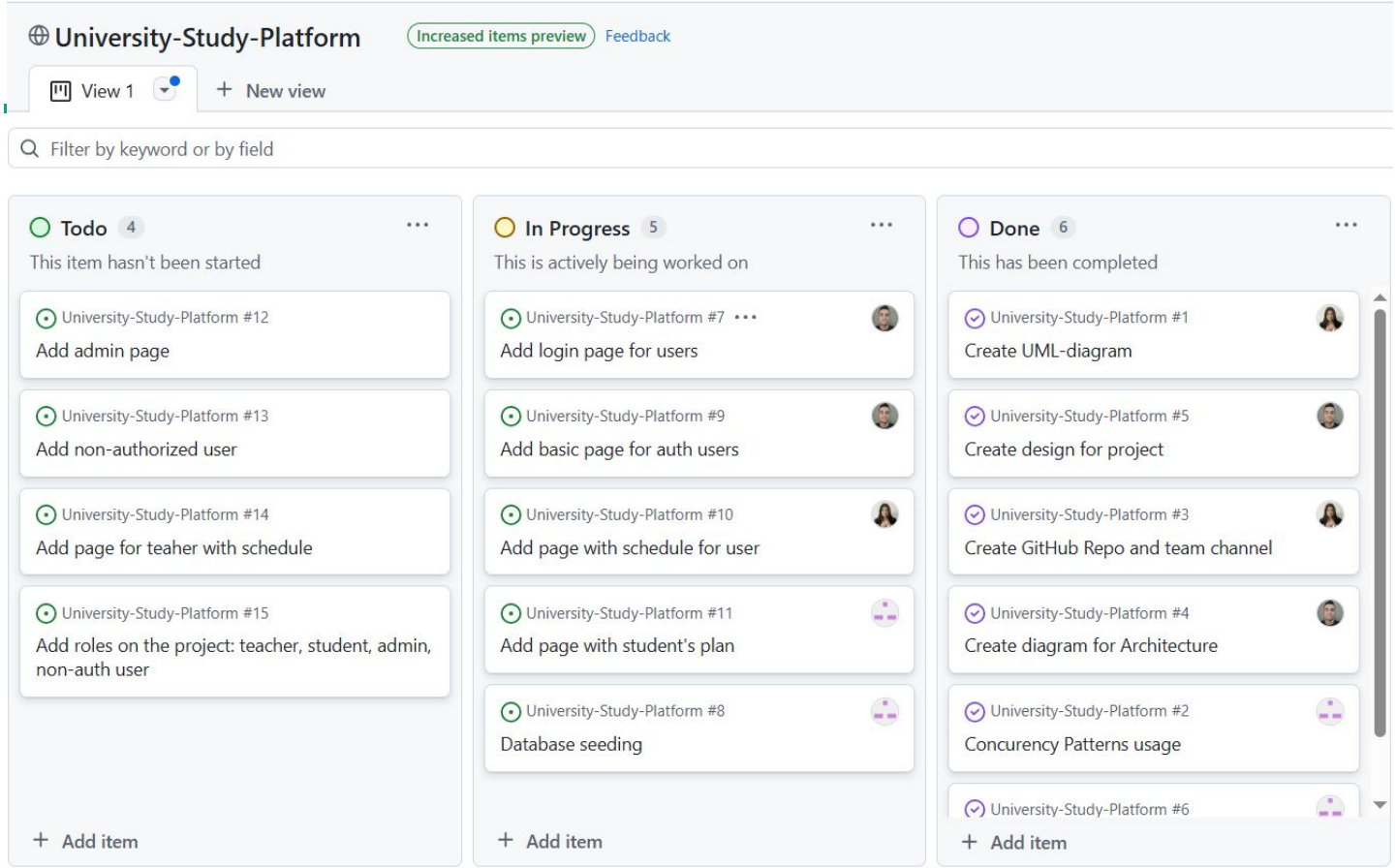




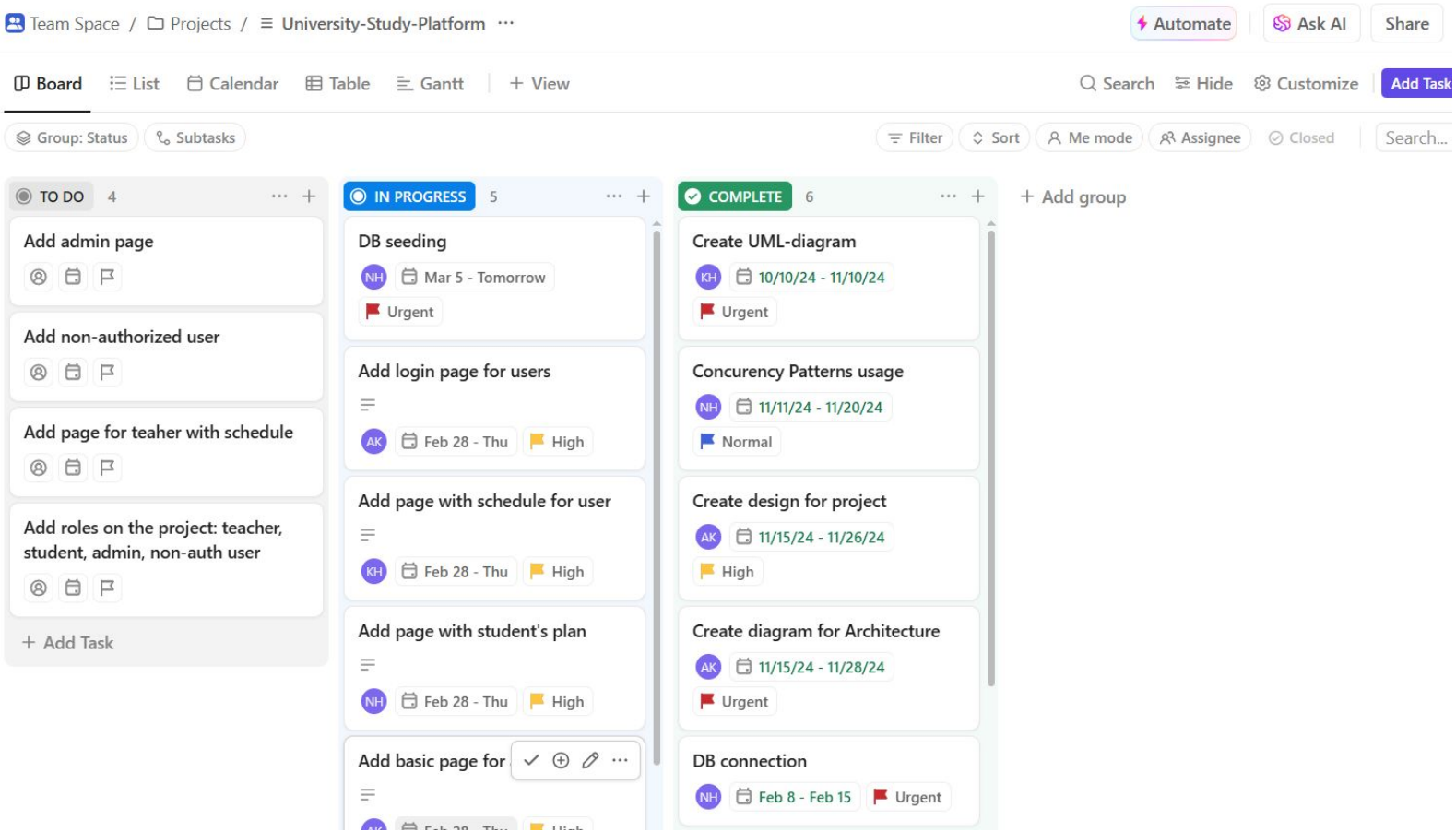
UI / UX Design and Prototyping



Project schedule - GitHub



Clickup


Team Space / Projects / University-Study-Platform
Automate
Ask AI
Share
Board
List
Calendar
Table
Gantt
+ View
Search
Hide
Customize
Add Task
Group: Status
Subtasks
Filter
Sort
Me mode
Assignee
Closed
Search...
TO DO 4
Add admin page
Add non-authorized user
Add page for teaher with schedule
Add roles on the project: teacher, student, admin, non-auth user
+ Add Task
IN PROGRESS 5
DB seeding
Mar 5 - Tomorrow
Urgent
Add login page for users
Feb 28 - Thu
High
Add page with schedule for user
Feb 28 - Thu
High
Add page with student's plan
Feb 28 - Thu
High
Add basic page for
COMPLETE 6
Create UML-diagram
10/10/24 - 11/10/24
Urgent
Concurency Patterns usage
11/11/24 - 11/20/24
Normal
Create design for project
11/15/24 - 11/26/24
High
Create diagram for Architecture
11/15/24 - 11/28/24
Urgent
DB connection
Feb 8 - Feb 15
Urgent
+ Add group

Milestone & Priority

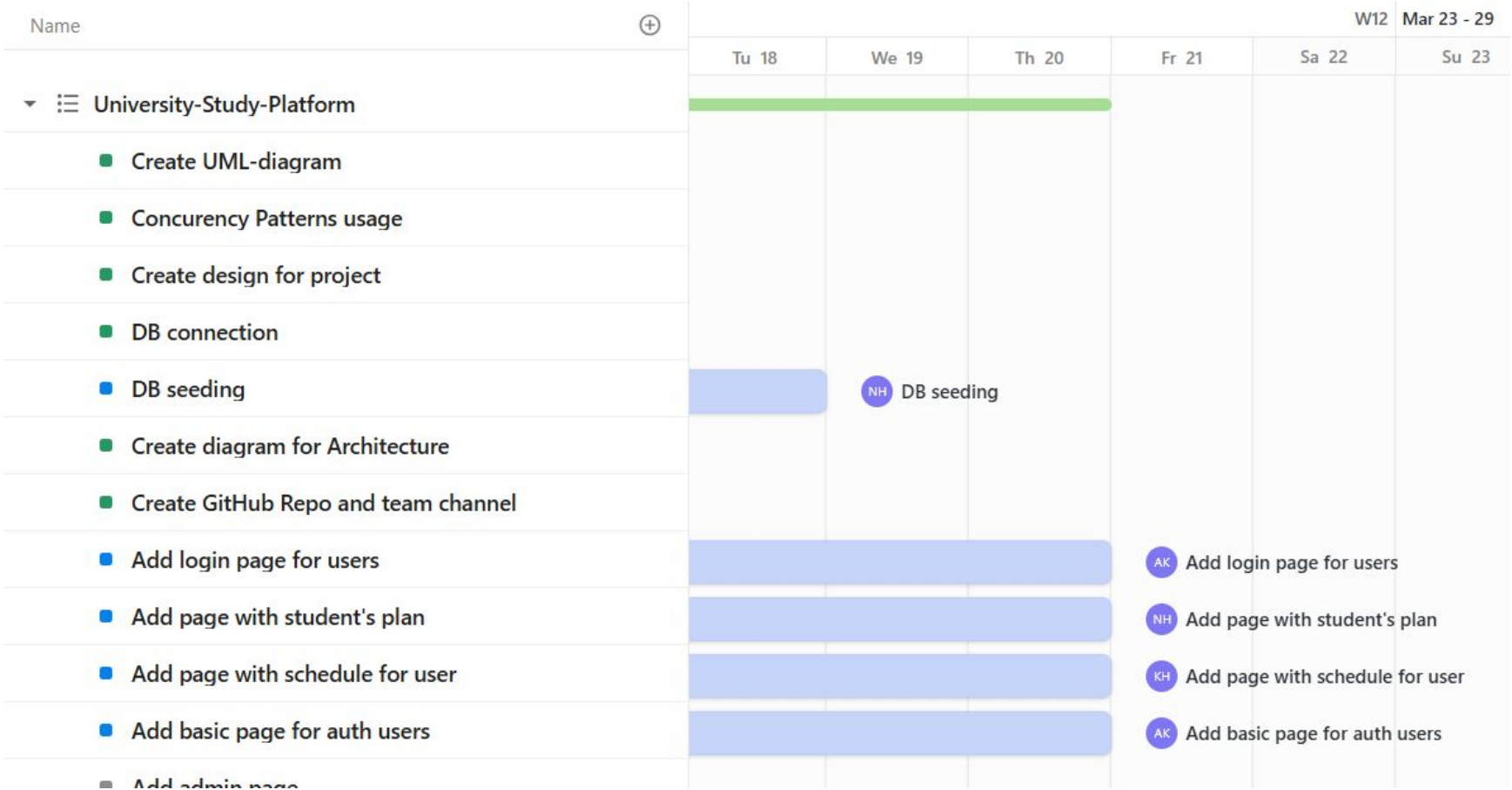
COMPLETE 6 ··· + Add Task

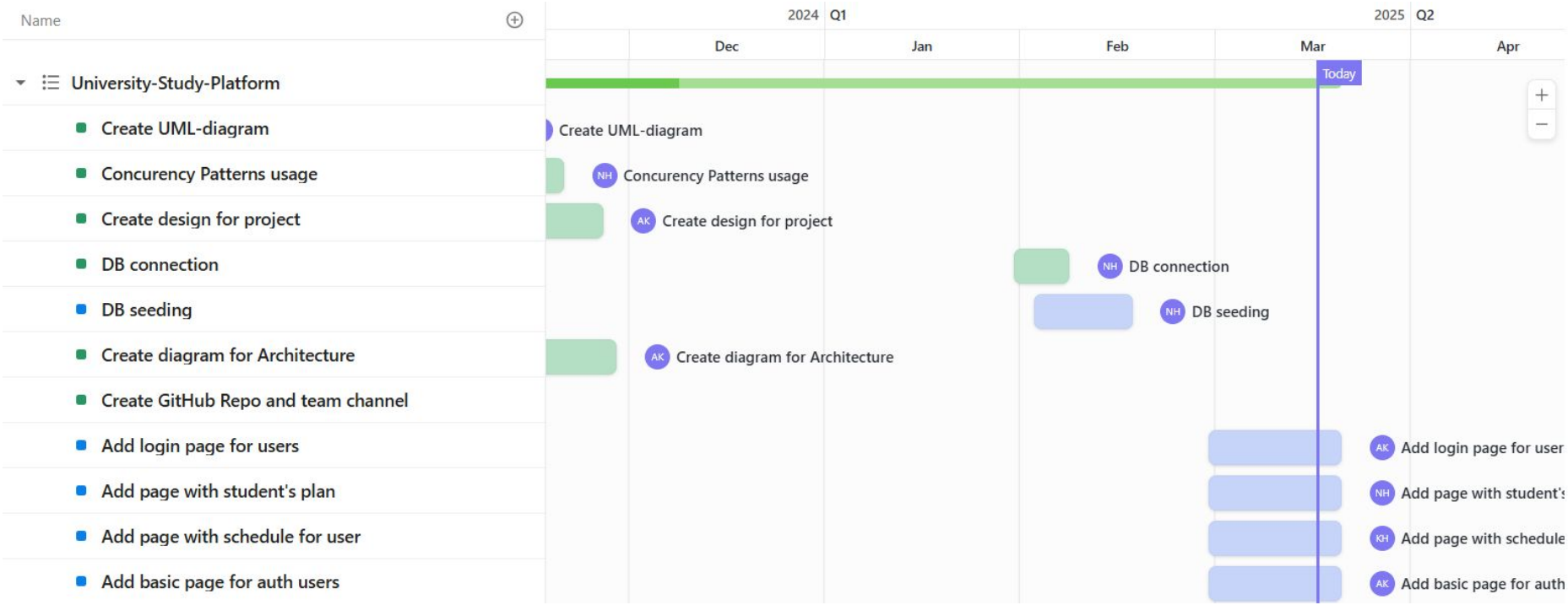
Name	Assignee	Due date	Priority	Status	Comments	Milestone
Concurency Patterns usage	NH	11/20/24	Normal	COMPLETE		3
Create UML-diagram	KH	11/10/24	Urgent	COMPLETE		5
Create design for project	AK	11/26/24	High	COMPLETE		5
DB connection	NH	Feb 15	Urgent	COMPLETE		3
Create diagram for Architecture	AK	11/28/24	Urgent	COMPLETE		5
Create GitHub Repo and team channel	KH	10/5/24	Normal	COMPLETE		1
+ Add Task						

IN PROGRESS 5 ··· + Add Task

Name	Assignee	Due date	Priority	Status	Comments	Milestone
DB seeding	NH	Tomorrow	Urgent	IN PROGRESS		3
Add login page for users	AK	Thu	High	IN PROGRESS		7
Add page with schedule for user	KH	Thu	High	IN PROGRESS		7
Add page with student's plan	NH	Thu	High	IN PROGRESS		7

Gantt Chart


Name
W12
Mar 23 - 29
Tu 18
We 19
Th 20
Fr 21
Sa 22
Su 23
University-Study-Platform
Create UML-diagram
Concurency Patterns usage
Create design for project
DB connection
DB seeding
Create diagram for Architecture
Create GitHub Repo and team channel
Add login page for users
Add page with student's plan
Add page with schedule for user
Add basic page for auth users
NH DB seeding
AK Add login page for users
NH Add page with student's plan
KH Add page with schedule for user
AK Add basic page for auth users


Name
2024 Q1
2025 Q2
Dec
Jan
Feb
Mar
Apr
Today
University-Study-Platform
Create UML-diagram
Concurency Patterns usage
Create design for project
DB connection
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Add basic page for auth users
Create UML-diagram
NH
Concurency Patterns usage
AK
Create design for project
NH
DB connection
NH
DB seeding
AK
Create diagram for Architecture
AK
Add login page for user
NH
Add page with student's
KH
Add page with schedule
AK
Add basic page for auth

The task description

Add login page for users

Assignees	AK
Dates	Feb 28 → Thu
Priority	High
Time Estimate	112h
Track Time	Add time
Tags	Empty
Relationships	Empty

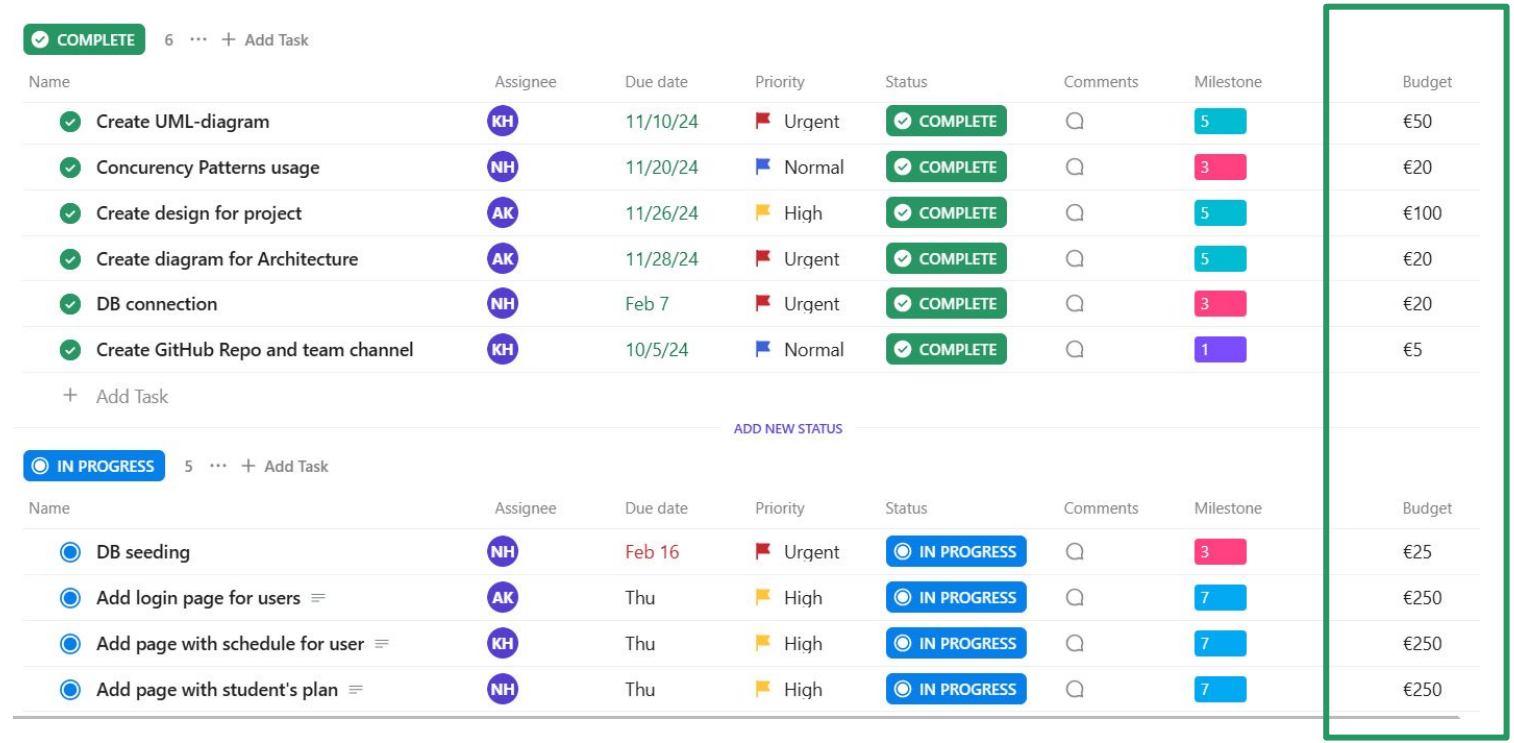
Create a user-friendly login page that allows users to securely access their accounts. Ensure the page includes fields for username and password, a "Forgot Password" link, and a "Remember Me" checkbox.

Custom Fields

Milestone	7

Budget with all associated costs

Currently, this project is being developed as a startup and is fully initiated by the developers.



COMPLETE 6 ··· + Add Task

Name	Assignee	Due date	Priority	Status	Comments	Milestone	Budget
Create UML-diagram	KH	11/10/24	Urgent	COMPLETE		5	€50
Concurency Patterns usage	NH	11/20/24	Normal	COMPLETE		3	€20
Create design for project	AK	11/26/24	High	COMPLETE		5	€100
Create diagram for Architecture	AK	11/28/24	Urgent	COMPLETE		5	€20
DB connection	NH	Feb 7	Urgent	COMPLETE		3	€20
Create GitHub Repo and team channel	KH	10/5/24	Normal	COMPLETE		1	€5

+ Add Task

ADD NEW STATUS

IN PROGRESS 5 ··· + Add Task

Name	Assignee	Due date	Priority	Status	Comments	Milestone	Budget
DB seeding	NH	Feb 16	Urgent	IN PROGRESS		3	€25
Add login page for users	AK	Thu	High	IN PROGRESS		7	€250
Add page with schedule for user	KH	Thu	High	IN PROGRESS		7	€250
Add page with student's plan	NH	Thu	High	IN PROGRESS		7	€250

Thank you for your time!