

Digilab-NG

Group 3



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Group 1



**Daffa Sayra
Firdaus**



**Alexander
Christhian**



**Yehezkiel
Jonathan**



**Muhammad
Avicenna
Raffaiz
Adiharsa**

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Introduction

Digilab-NG adalah platform pembelajaran modern yang dirancang untuk mata kuliah Laboratorium Digital. Platform ini menyediakan sistem komprehensif untuk mengelola kelas, modul, tugas, dan interaksi sosial. Dibangun dengan React dan Express, Digilab-NG juga mendukung konten Markdown dan LaTeX secara penuh, sehingga sangat ideal untuk pendidikan teknis.

o4-mini-high

The screenshot shows the 'Available Classes' section of the Digilab-NG platform. At the top, there's a navigation bar with 'Classes', 'News', 'About', 'Dashboard', 'Assignments', 'Threads', and a user profile for 'Alex'. Below the navigation, there are two class cards:

- Kelas Dengan Projektor**: An image of a breadboard with various components and wires. Below it, the text says 'IF you know you know' and 'By DaffaSMP'. A 'View Class' button is at the bottom right, with the date '5/13/2025' next to it.
- Digital System Design (DSD)**: An image of a digital system design icon. Below it, the text says 'Mata kuliah **Digital System Design (DSD)** membahas prinsip dan teknik dalam perancangan sistem digital menggunakan pendekatan berbasis logika dan pemodela...' and 'By DaffaSMP'. A 'View Class' button is at the bottom right, with the date '5/13/2025' next to it.

At the bottom right of the screenshot, there's a '+ Create Class' button.



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Language dan Framework



REACT



TAILWINDCSS



REDIS



TYPESCRIPT



VITE



JWT



EXPRESS.JS



NODE.JS



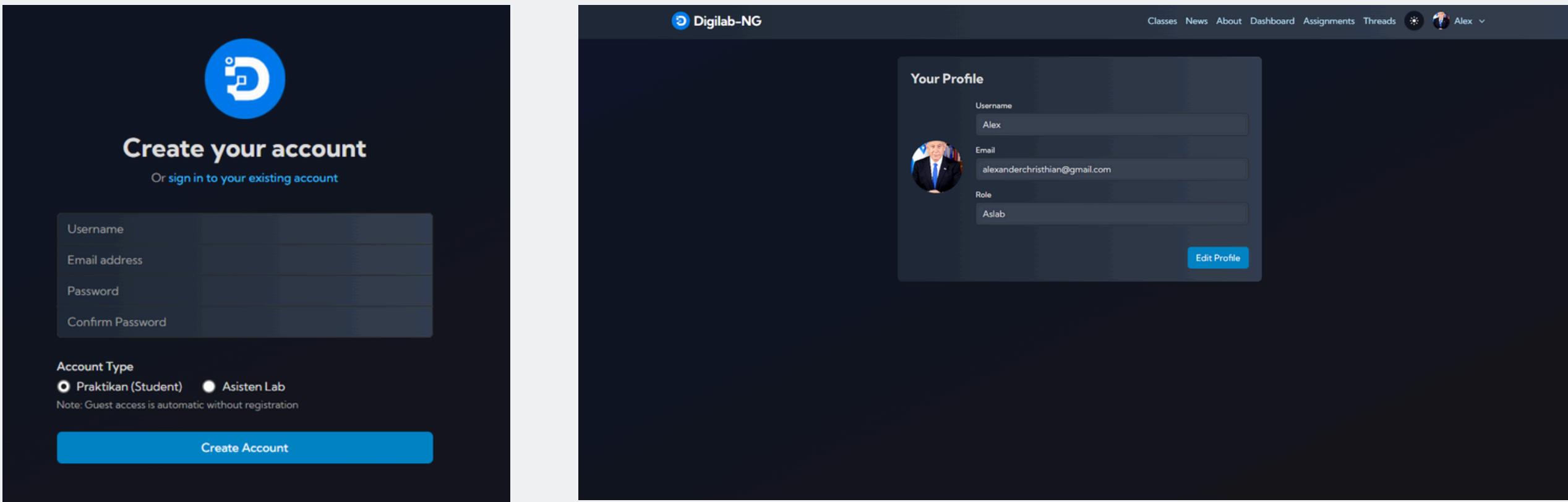
POSTGRES

CLOUDINARY

DOCKER

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Login Page



Redis based login dengan
key dan juga role untuk
praktikan dan aslab

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Classes Page

The screenshot shows the 'Available Classes' section with two cards:

- Kelas Dengan Proyektor**: Shows a schematic diagram of an Arduino-based project. Description: "IF you know you know". Created by DaffaSMP on 5/13/2025. Buttons: 'View Class'.
- Digital System Design (DSD)**: Shows a purple and blue abstract graphic. Description: "Mata kuliah **Digital System Design (DSD)** membahas prinsip dan teknik dalam perancangan sistem digital menggunakan pendekatan berbasis logika dan pemodelan perangkat keras. Mahasiswa akan mempelajari representasi logika digital, pemrosesan sinyal digital, serta implementasi sistem menggunakan bahasa pemrograman perangkat keras seperti VHDL atau Verilog." Topics include Logika Kombinasi dan Sekuensial, State Machine (Moore & Mealy), Desain Register & Counter, Finite State Machine (FSM), Desain dengan Multiplexer, Decoder, Encoder, and Penggunaan Simulator & FPGA. Practical work includes implementing digital design in FPGA. Learning outcomes: Merancang dan menganalisis sistem logika digital, Menggunakan alat bantu simulasi untuk memverifikasi sistem digital, Menerapkan logika digital dalam proyek nyata menggunakan perangkat PROTEUS dan VULKAN LOGIC BOARD. Buttons: '+ Create Class', 'Edit', 'Delete', 'Create Announcement'.

The screenshot shows the 'Edit Class' interface for the Digital System Design (DSD) class. It includes:

- Class Title ***: Digital System Design (DSD).
- Description**: Mata kuliah **Digital System Design (DSD)** membahas prinsip dan teknik dalam perancangan sistem digital menggunakan pendekatan berbasis logika dan pemodelan perangkat keras. Mahasiswa akan mempelajari representasi logika digital, pemrosesan sinyal digital, serta implementasi sistem menggunakan bahasa pemrograman perangkat keras seperti **VHDL** atau Verilog.
- Class Image**: A purple and blue abstract graphic.
- Assignments** tab: Shows TP4 - Najip (Due 5/18/2025 - Passed) and Tugas Pendahuluan Modul 1: Pengenalan Dasar Rangkaian Digital (Due 5/20/2025 - 1 day left). Buttons: '+ Add Assignment', 'Edit'.

Classes Page berisikan class yang ada dimana isinya ada modul dan juga assigment yang terkait dengan class tersebut. Isi utama dari Class ini juga dapat diisi dengan description (dengan .md) dan gambar class.

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News Page

The screenshot displays a news page interface. On the left, there's a sidebar titled "Announcements" listing three items: "PRAKTIKAN JANGAN LUPA BELAJAR SBA", "JOIN KELAS DSD", and "TP3 KELUARRRRR !!!!!". Each item has a thumbnail, a title, a brief description, and a "Read more" link. The main content area shows a large announcement card for "JOIN KELAS DSD" with a photo of a person eating spaghetti, a red banner at the top, and a "Go to Class" button. Below it is another announcement for "JOIN ATAU -50 NILAI AKHIR MATKUL". A modal window titled "Edit Announcement" is open, showing fields for "Title" (set to "JOIN KELAS DSD"), "Content" (containing "## JOIN ATAU -50 NILAI AKHIR MATKUL"), and "Link to Entity (Optional)" (set to "Digital System Design (DSD)").

News Page akan menjadi page sebagai announcement bagi praktikan untuk memberi tahu mengenai suatu pengumuman penting

Setiap News dapat di link dengan entity antara class, assigment, atau modul untuk mempermudah User Experience. Aslab juga dapat mengedit dan membuat news dengan mudah.

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About Page

Cuma sekedar About Page yang menjelaskan developer dan penjelasan projectnya.

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About Our Team

We are a team of students working on this markdown notes application as part of our Sistem Basis Data course's project.

Team Members

Daffa Sayra Firdaus Main Developer	***** Team Member
Alexander Christian Rispek Developer	***** Team Member

About the Project

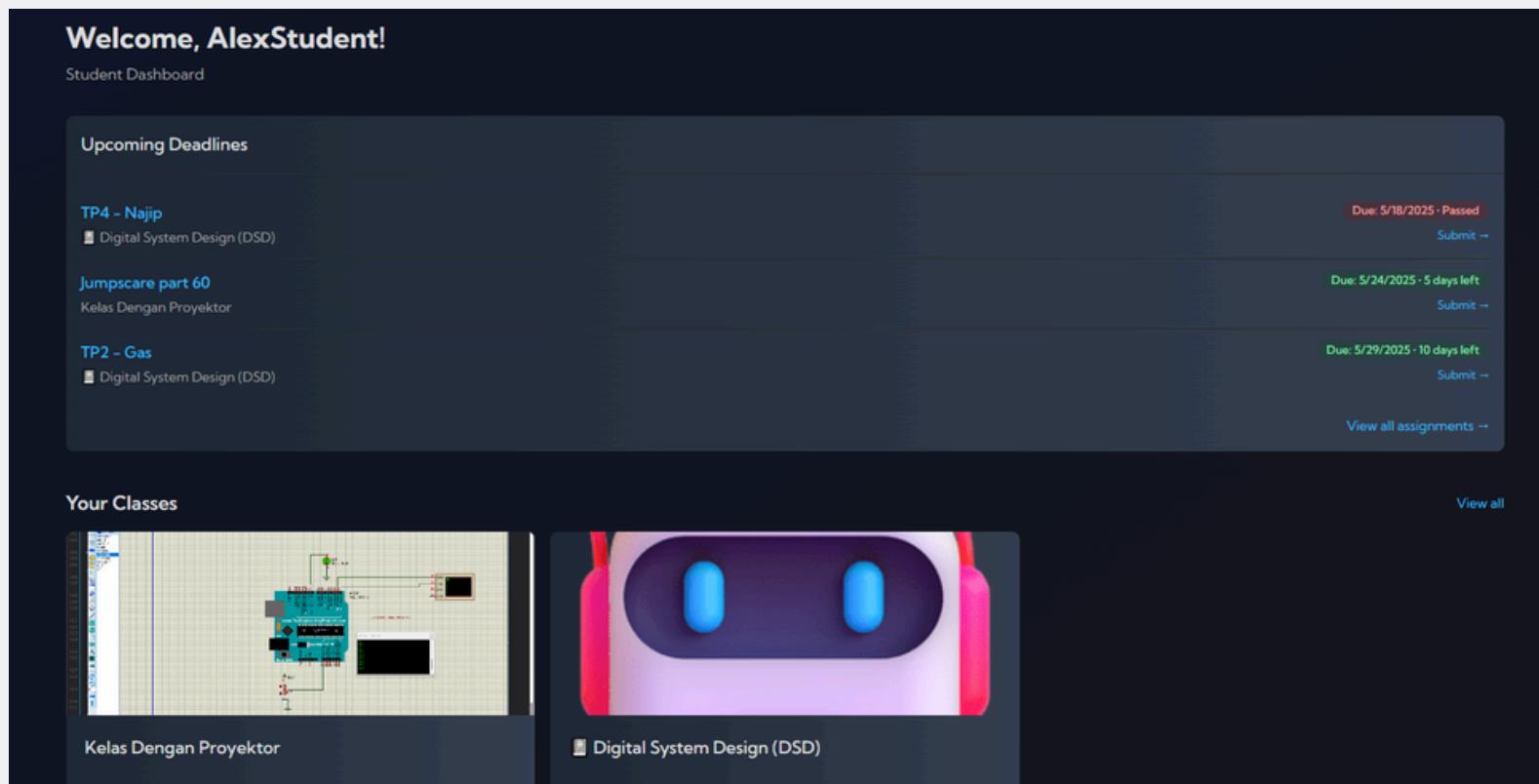
This application was built using:

- React with TypeScript for the frontend
- Express.js for the backend API
- NeonDB (PostgreSQL) for the database
- Redis for caching (login/session manager)
- Docker for containerization
- Tailwind CSS for styling

The application allows users to create, edit, and view markdown notes for various subjects.

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Dashboard Page



Dashboard sendiri akan berisi berdasarkan class yang diambil dan deadline yang paling dekat untuk assigment.

Dashboard ini akan berisikan class, news, dan juga assigment yang ada

The screenshot shows a dashboard with the following sections:

- Your Classes**: Shows "Kelas Dengan Proyektor" (with a breadboard image) and "Digital System Design (DSD)" (with a purple and pink abstract design). Both have "View class" buttons.
- Latest News**:
 - PRAKTIKAN JANGAN LUPA BELAJAR SBA: "## ini modulnya" by Alex - 5/15/2025. Read more →
 - JOIN KELAS DSD: "# JOIN ATAU -50 NILAI AKHIR MATKUL" by Alex - 5/14/2025. Read more →
 - TP3 KELUARRRRR !!!!!!! DEADLINE BESOK MALAM ATAU -100" by Alex - 5/14/2025. Read more →

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Assignment Page

The Assignment Page interface is designed to manage assignments and student submissions. It includes:

- Assignments:** A list of assignments for the class "Digital System Design (DSD)".
 - TP4 - Najip:** Status: Deadline passed. Created by Alex.
 - TP1 - Testing Didilab:** Status: Due: 5/20/2025 - 1 day left. Description: # Tugas Pendahuluan Modul 1 : Pengenalan Dasar Rangkaian Digital Nama : Kufu [Ganti dengan nama lengkap anda] NPM : 2401234567 [Ganti dengan NPM anda] ## Teori ### *#Jangan lupa untuk mencantumkan referensi dalam setiap pengerjaan soal (jawaban tanpa referensi hanya mendapatkan maksimal 50% dari bobot soal)** ## 1. **Apa itu breadboard? Jelaskan bagaimana breadboard dapat mengantarkan arus! (1...). Created by DaffaSMP.
 - TP3 - Kerjakan:** Status: Due: 5/28/2025 - 9 days left. Description: KERJAKANDNAWDNNWADAWD. Created by DaffaSMP.
 - TP2 - Gas:** Status: Due: 5/29/2025 - 10 days left. Description: Anjay makan. Created by DaffaSMP.
- Edit Assignment:** A modal window for editing assignment details. Fields include Class (Digital System Design (DSD)), Title (TP4 - Najip), Deadline (18/05/2025 15:30), and Description (KERJAKANDNAWDNNWADAWD). Buttons: Cancel and Update Assignment.
- Assignment Details:** A detailed view of TP4 - Najip, showing its creation date (5/18/2025), last update (5/18/2025), and instructor actions (Edit Assignment, Delete Assignment, View Submissions).
- Submissions:** A list of submissions for TP1 - Testing Didilab, showing student names (AlexStudent, DaffaSD), submission dates, and grades (69.00, 100.0).
- Grade Submission:** A section for grading submissions, showing a grade of 69.00 and feedback: niger. Buttons: Save Grade.
- Submission by AlexStudent:** A detailed view of a submission by AlexStudent, showing a grade of 69 and attached files.

Description: Assignment page akan berisikan assigment - assigment yang dibuat dan juga detail dari submission dari praktikan itu sendiri. Aslab dapat mengedit assigment ataupun menilai assigment. Praktikan juga dapat mengumpulkan tugas yang berada di assigment page ini

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Threads Page

Digilab Social

All Posts Classes Modules Assignments

Create a post...

Alex · 10 hours ago in TP4 - Najip

TESSSS

0 replies View Thread

DaffaSMP · Saturday in Kelas Dengan Proyektor

Bang ini kelasnya keknya masih belum ada materinya deh

743 1 replies View Thread

Back to Social

DaffaSMP 5/17/2025

RELATED CLASS Kelas Dengan Proyektor Go to Class

Bang ini kelasnya keknya masih belum ada materinya deh

Comments (1)

Write a comment...

Comments (1)

Write a comment...

DaffaSD 5/17/2025 06:53 AM

tes

Post Comment

Threads page adalah tempat praktikan dapat memberi pertanyaan dimana aslab atau praktikan lain dapat menjawab dan berdiskusi. Setiap thread akan terhubung ke suatu entity untuk menghubungkan thread tersebut

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Profile Page

Cuma sekedar Profile Page yang berisikan detail dari profile user itu sendiri.

Your Profile



Username
Alex

Email
alexanderchristian@gmail.com

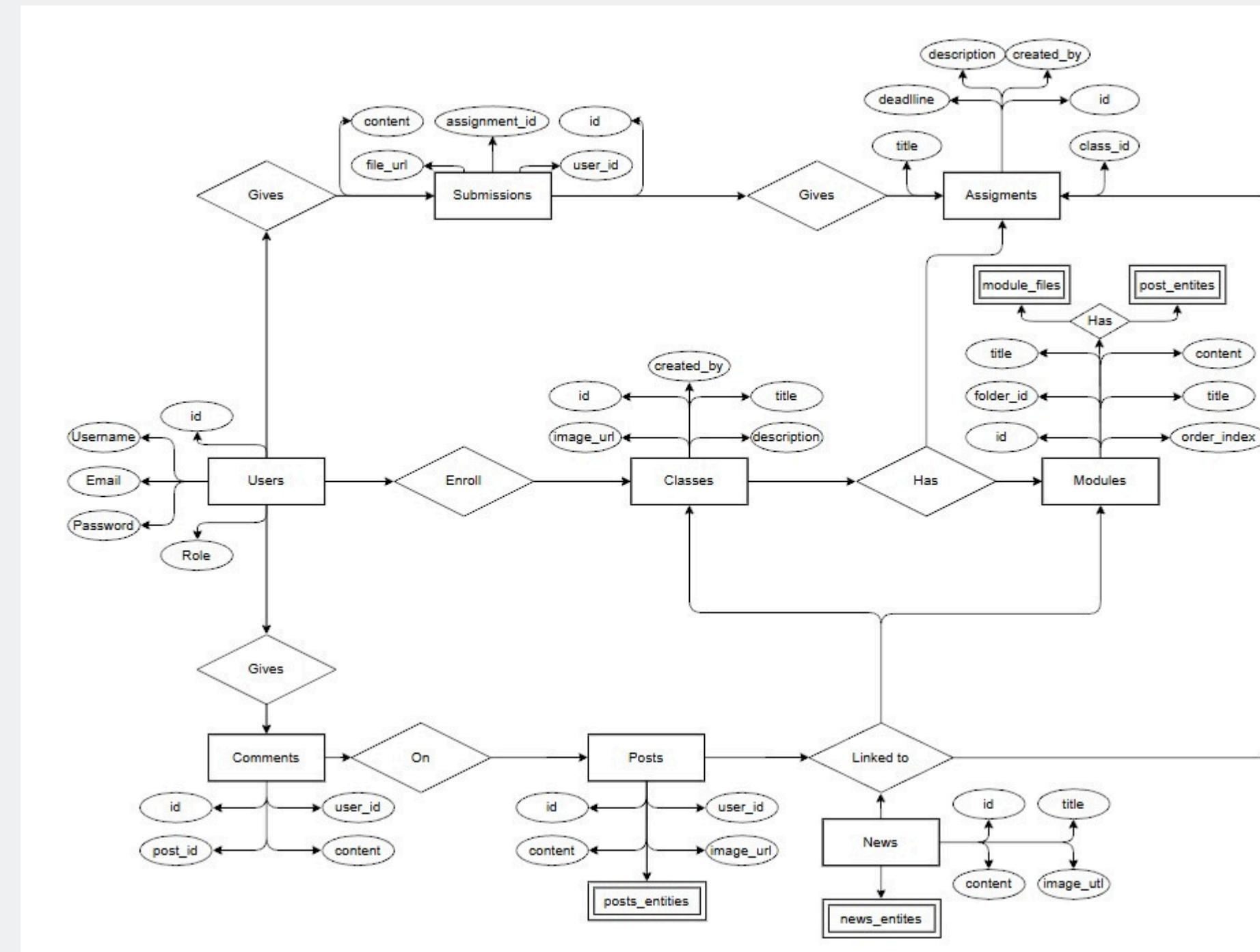
Role
Aslab

[Edit Profile](#)

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ERD





Title Page

Reporters

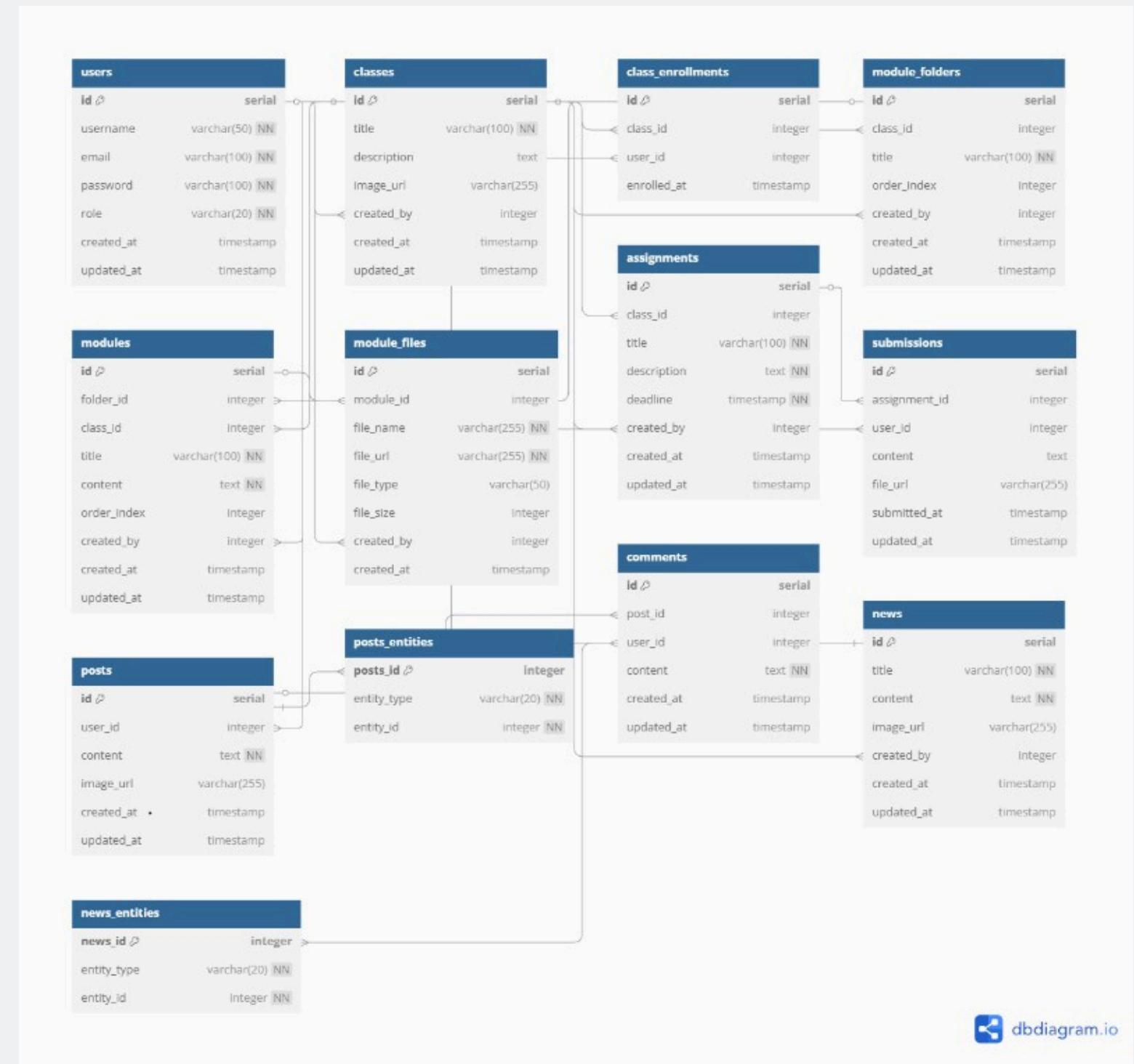
Introduction

Overview



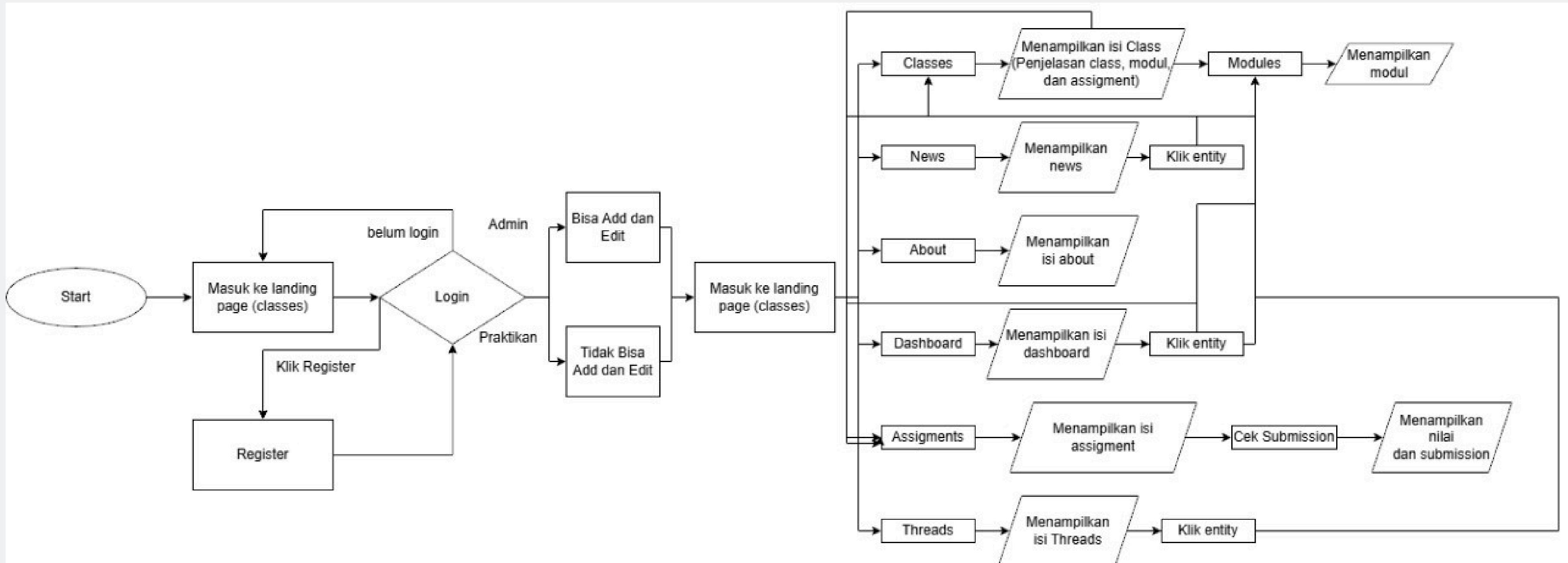
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UML



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Flowchart



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Thank You