



Makan Bergizi Gratis –
kemana uangnya??

MBG-KU

Final Project Praktikum SBD Group 1

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PROBLEM BACKGROUND

Di bawah pemerintahan presiden Prabowo Subianto, pemerintah Indonesia memulai program Makan Bergizi Gratis untuk pelajar. Sebagai inovasi baru, terdapat tantangan dalam implementasi manual: inefisiensi, sulit dilacak, potensi kekurangan. Oleh karena itu, diperlukan sebuah sistem untuk mempermudah distribusi dan monitoring makanan bergizi.

SOLUTION OVERVIEW

MBG-ku adalah project digitalisasi proses penyerahan, perencanaan, hingga monitoring program Makan Bergizi Gratis oleh sekolah

3 Peran Utama:

- Government
- School
- Student

Fitur Utama:

- QR Code harian untuk penerimaan makanan
- Dashboard distribusi
- Pemilihan menu
- Pelacak pengeluaran

Login Accounts of MBG-ku

Government

Government dapat membuat dan mengakses menu makanan bergizi, membuat akun untuk school, serta melakukan monitoring pengeluaran pendistribusian makanan melalui tracker dan report pada laman web

School

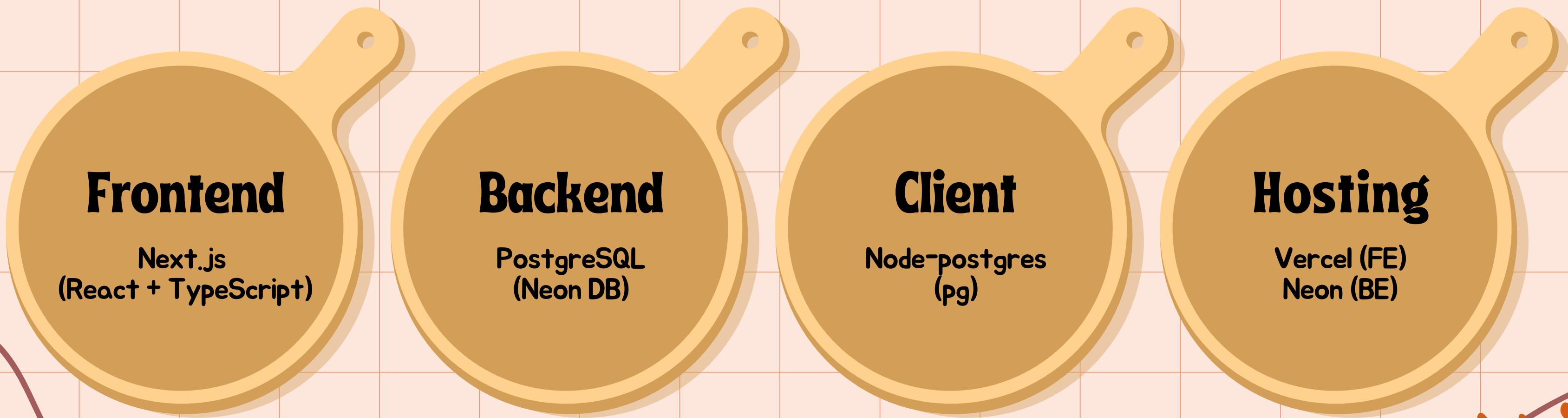
School dapat menambahkan data student dan membuat akun student, mengakses menu makanan yang tersedia, melakukan monitoring destribusi makanan kepada student, serta melakukan scan QR dari student untuk pembagian makanan bergizi

Student

Student dapat mengakses halaman utama yang berisi halaman sambutan dan menampilkan QR yang akan di-scan oleh akun sekolah untuk penerimaan makanan bergizi

Setiap jenis akun melakukan login saat pertama mengakses web

SYSTEM ARCHITECTURE



FEATURES OF EACH ROLE

Government

- Monitor distribusi makanan untuk seluruh sekolah dalam provinsi.
- Kelola menu dan alokasi makanan per sekolah.
- Perhitungan otomatis pengeluaran berdasarkan harga porsi.
- Fitur AI untuk memilih menu sehat & hemat.

School

- Scan QR code siswa untuk distribusi makanan.
- Dashboard jumlah makanan yang dibagikan.
- Menambah akun siswa dan mengatur ulang password.
- Melihat menu harian dan alokasi jumlah makanan.

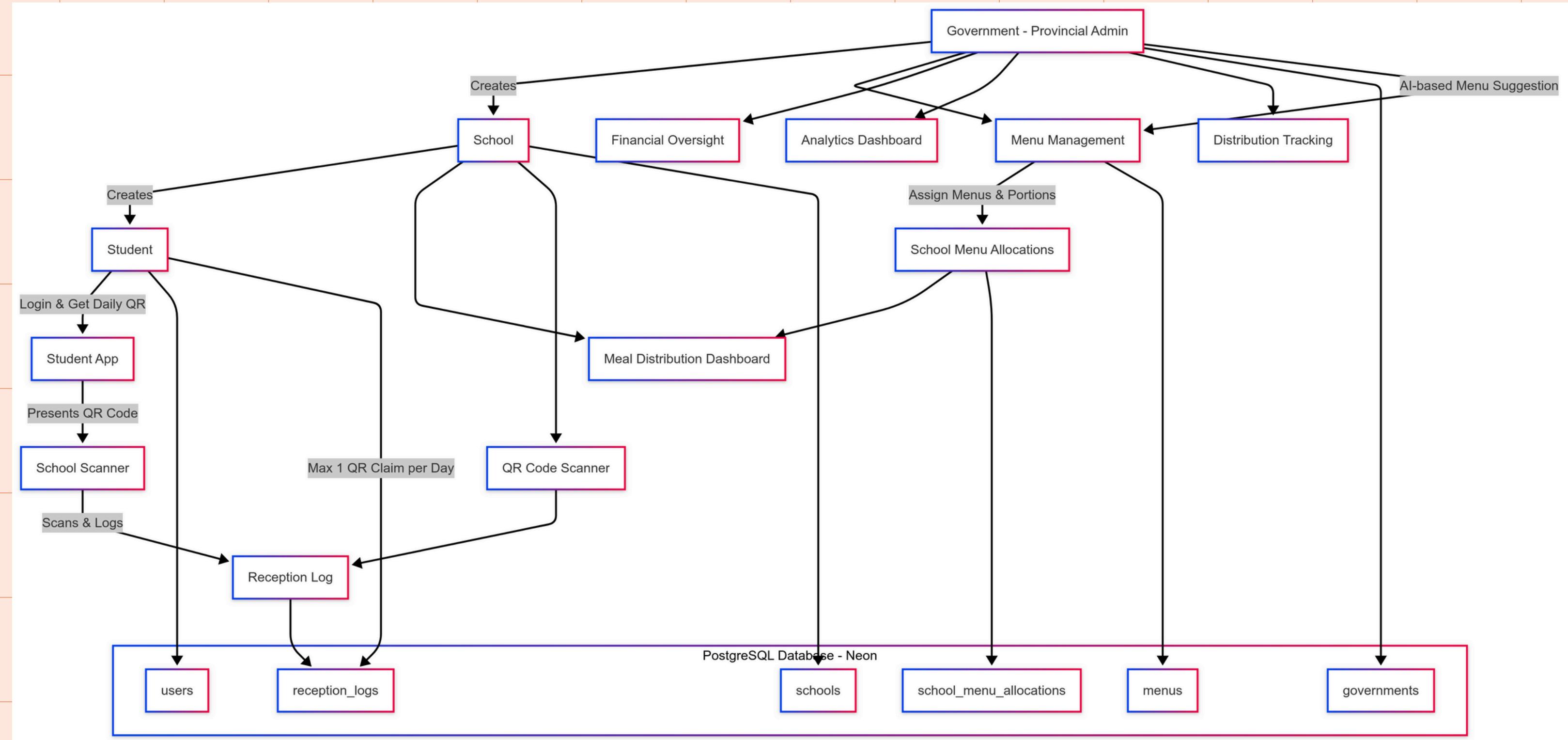
Student

- Login menggunakan akun dari sekolah.
- QR Code unik harian untuk klaim makanan.
- Hanya bisa klaim satu kali per hari.
- Tampilan ringan dan responsif untuk akses mobile.

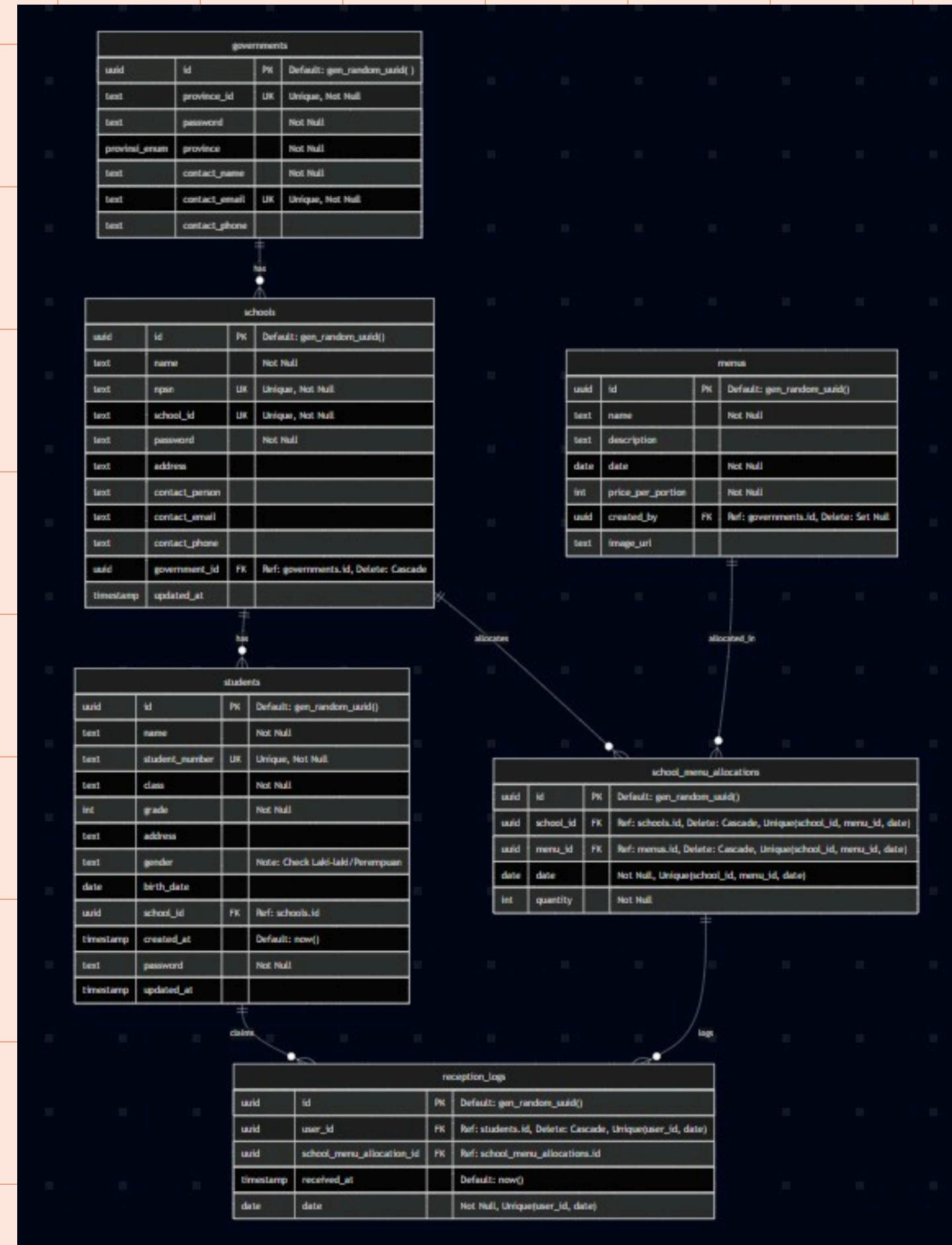
DATABASE SCHEMA



FLOWCHART



ERD



USAGE RULES

- Setiap siswa hanya bisa klaim satu makanan per hari.
- Hanya sekolah yang bisa membuat akun siswa.
- Hanya pemerintah yang bisa membuat akun sekolah.
- Menu dan jumlah makanan ditentukan harian.
- Semua aktivitas tercatat untuk transparansi dan audit.

SCREENSHOTS

MBGku Makan Bergizi Gratis

Welcome to MBGku

The digital platform for Indonesia's Free Nutritious Meals program by President Prabowo. Choose your portal below to access the system.

Student Portal
Access your daily meal QR codes and track your nutrition intake
[Login as Student >](#)

School Portal
Manage student meals, scan QR codes, and track distribution
[Login as School >](#)

Government Portal
Provincial oversight, school management, and program analytics
[Login as Government >](#)

Nutritious
Balanced meals designed by nutrition experts for growing students

Free
Completely free meals for all eligible students across Indonesia

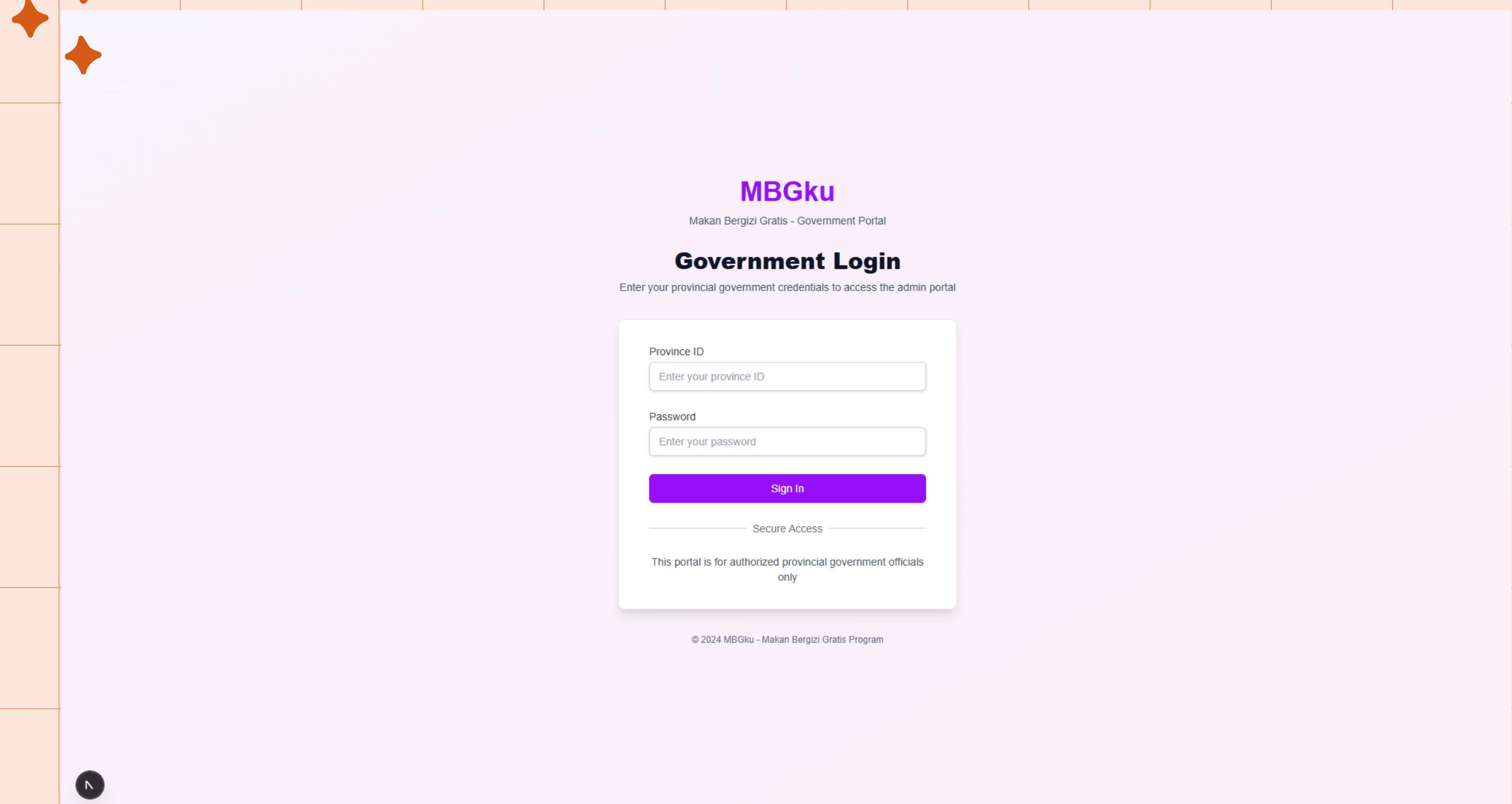
Digital
Modern QR-code system for efficient and transparent distribution

© 2024 MBGku - Makan Bergizi Gratis Program by President Prabowo

Login page

SCREENSHOTS

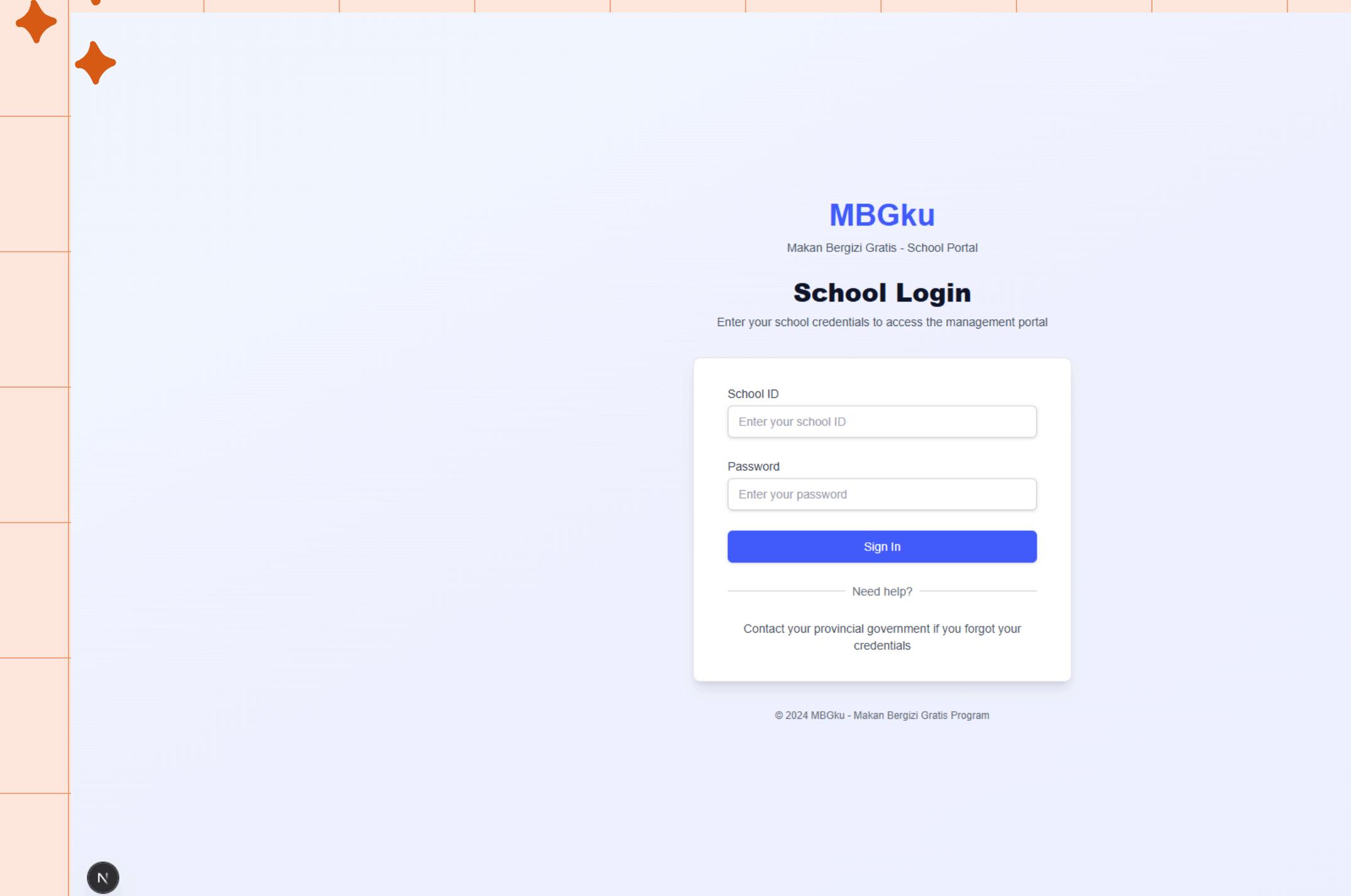
/gov/auth/login



Government Login page

SCREENSHOTS

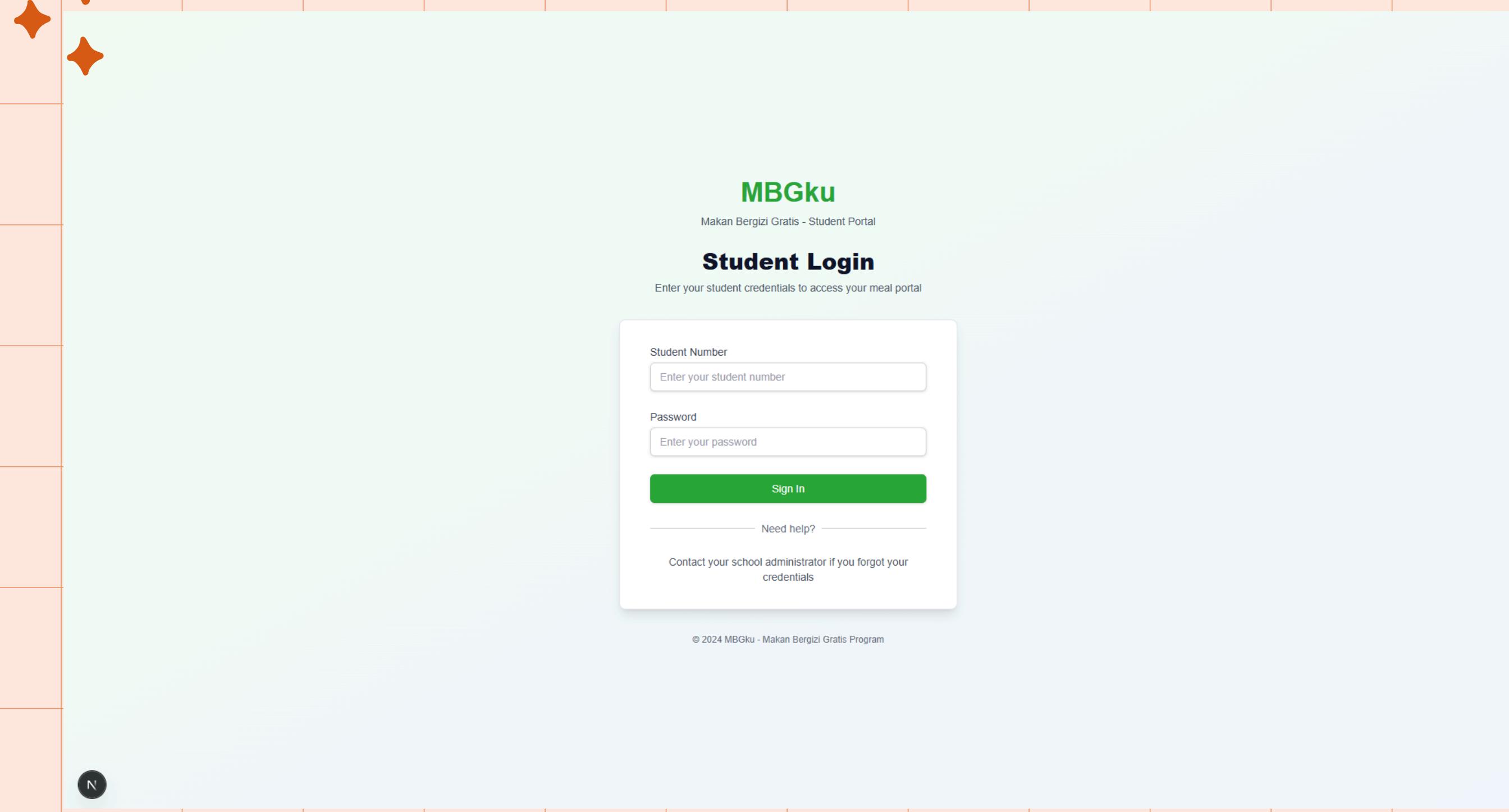
/school/auth/login



School Login page

SCREENSHOTS

/student/auth/login



Student Login page

SCREENSHOTS

/gov/dashboard

The screenshot displays the 'Government Dashboard' page of the 'MBG Government Portal'. The page is divided into several sections:

- Provincial Overview:** A summary of the Free Nutritious Meals program. It shows 2 Total Schools (+2 this month), 1 Total Students (0 served), 0 Today's Distributions (No change), and a Total Budget of Rp 850.010 (Rp 0 distributed). There are date pickers and a refresh button.
- Program Efficiency:** A horizontal bar chart comparing four metrics: Distribution Rate (0.0%), Student Participation (0.0%), Active Schools (0 / 2), and Avg Cost per Meal (Rp 12.500,5).
- Top Performing Schools:** A table showing the top two schools:

Rank	School Name	NPSN	Students Served	Meals Served	Performance (%)
#1	SDN Cipinang Muara 19	12345678	1 students	0 meals	0.0%
#2	SDN Cipinang Muara 20	12345677	0 students	0 meals	0.0%
- Recent Activities:** A list of recent events:
 - SDN Cipinang Muara 19 - Nasi Goreng Kambing: Menu allocated: 50 portions (27 Mei 2025, 13.26)
 - SDN Cipinang Muara 19 - Gado Gado: Menu allocated: 10 portions (27 Mei 2025, 13.26)
 - Nasi Goreng Kambing: New menu created for 27 May 2025 (27 Mei 2025, 13.24)
 - Gado Gado: New menu created for 27 May 2025 (27 Mei 2025, 13.24)
 - SDN Cipinang Muara 20: New school registered (27 Mei 2025, 13.22)
- Quick Actions:** A section with a large 'N' icon and a 'Logout' button.

Government Dashboard page

SCREENSHOTS

/gov/schools

The screenshot displays the 'School Management' section of the MBG Government Portal. The left sidebar includes links for Dashboard, School Management (which is highlighted), Menu Management, and Menu Allocation. The main content area starts with a summary section titled 'Schools in Your Province' showing 2 registered schools, 2 active schools, and 2 recent additions. Below this is a 'School Directory' table with two entries:

School Name	NPSN	School ID	Contact	Status	Created	Actions
SDN Cipinang Muara 19 Jalan Dimana kah itu	12345678	CM19	christianhadiwijaya tianrider@gmail.com 082113383767	Active	27/5/2025	Edit Delete
SDN Cipinang Muara 20	12345677	CM20		Active	27/5/2025	Edit Delete

The footer contains the text 'Nusa Tenggara Barat Government Portal' and a 'Logout' button.

School Management page

SCREENSHOTS

/gov/schools/create

The screenshot shows the 'Create New School' form. The left sidebar has a purple header 'MBG Government Portal' with icons for Dashboard, School Management, Menu Management, and Menu Allocation. The main area has a light gray header 'Create New School' with a back arrow. Below it is a section titled 'Add New School' with the sub-instruction 'Create a new school account in your province'. The 'School Information' section contains fields for 'School Name *' (e.g., SD Negeri 1 Jakarta) and 'NPSN *' (8-digit NPSN). Below these are fields for 'School ID *' (e.g., school_001) and 'Password *' (Minimum 6 characters). There is also a 'Unique identifier for login'. The 'School Address' section has a single input field for 'Complete school address'. The 'Contact Information' section includes fields for 'Contact Person' (Principal or contact person name), 'Email' (school@example.com), and 'Phone Number' (e.g., +62 21 1234567). At the bottom are two buttons: a purple 'Create School' button with a '+' icon and a white 'Cancel' button. The bottom right corner of the main form has a small 'Important Information' section with two items: 'School Login Credentials' (The school will use the School ID and password to log into their portal) and 'NPSN Validation'. The bottom left corner of the sidebar has a purple footer 'Nusa Tenggara Barat Government Portal' with a 'Logout' button.

Create School page

SCREENSHOTS

/gov/menus

The screenshot displays the 'Menu Management' section of the MBG Government Portal. The left sidebar includes links for Dashboard, School Management, Menu Management (which is selected), and Menu Allocation. The main content area is titled 'Meal Menus' and provides statistics: Total Menus (2 Created menus), Upcoming Menus (2 Future menus), Average Price (Rp 12.500,5 Per portion), and This Month (2 Menus this month). A 'Create New Menu' button is located in the top right. Below this is a 'Menu Directory' section with a search bar and two entries:

Menu Name	Date	Price per Portion	Status	Created	Actions
Gado Gado sehat sempurna	27/5/2025	Rp 10.001	Today	27/5/2025	
Nasi Goreng Kambing enak kali la	27/5/2025	Rp 15.000	Today	27/5/2025	

At the bottom left, there is a purple footer box with the text 'Nusa Tenggara Barat Government Portal' and a 'Logout' button.

Food Management page

SCREENSHOTS

/gov/allocations

MBG Government Portal

Menu Allocation

Menu Allocations
Manage menu allocations to schools

+ Create Allocation

Total Allocations	Total Portions	Total Budget	Upcoming
2 Active allocations	60 Allocated portions	Rp 850.010 Allocated budget	2 Future allocations

Allocation Directory

School	Menu	Date	Quantity	Total Value	Status	Actions
SDN Cipinang Muara 19 NPSN: 12345678	Nasi Goreng Kambing Rp 15.000 per portion	27/5/2025	50 portions	Rp 750.000	Today	
SDN Cipinang Muara 19 NPSN: 12345678	Gado Gado Rp 10.001 per portion	27/5/2025	10 portions	Rp 100.010	Today	

Nusa Tenggara Barat
Government Portal

Logout

Menu Allocation page

SCREENSHOTS

/school/dashboard

The screenshot shows the 'School Dashboard' for SDN Cipinang Muara 19. The dashboard includes a sidebar with 'Makan Bergizi Gratis' logo, navigation links (Dashboard, Student Monitoring, Food Menu List, Scan QR Code), and user information (TianHD (089520234982), TianGamer@gmail.com). The main area displays key statistics: Total Students (1), Meals Today (0), This Week (0), This Month (0), Active Allocations (2), Total Distributed (0), Available Meals (60). It also features 'Quick Actions' for Scan QR Code, View Menus, and Add Student. Below this is a 'Menu Allocations' section showing current status for Gado Gado and Nasi Goreng Kambing.

Menu	Date	Allocated	Distributed	Available	Progress	Status
Gado Gado sehat sempurna	27 Mei 2025	10	0	10	<div style="width: 0%;"></div> 0%	
Nasi Goreng Kambing enak kali la	27 Mei 2025	50	0	50	<div style="width: 0%;"></div> 0%	

School Dashboard page

SCREENSHOTS

/school/monitoring

The screenshot displays the 'Student Monitoring' section of the 'Makan Bergizi Gratis' application. The left sidebar includes links for Dashboard, Student Monitoring (which is active), Food Menu List, and Scan QR Code. The main content area features four summary boxes: 'Total Students' (1), 'Active Students' (0, 0.0% activity rate), 'Total Meals' (0, Avg: 0.00 per student), and 'Total Value' (Rp 0). Below these are sections for 'Filters & Search' (with search bar, dropdowns for All Classes, All Grades, and date range, and a 'Clear' button) and 'Student List' (with Analytics link and 'Export Data' button). The 'Student Monitoring Data' table shows one student: Bonifasius Raditya (ID 2306161952), Class A Grade 12, with 0 total meals, 0 this week, 0 this month, last meal never, and value Rp 0. At the bottom, it says 'Showing 1 to 1 of 1 students' and 'Previous'/'Next' buttons. The footer includes a 'Create an Account' button, user info (TianHD (089520234982), TianGamer@gmail.com), and a 'logout' button.

Student	Class/Grade	Total Meals	This Week	This Month	Last Meal	Value	Status
Bonifasius Raditya 2306161952	A Grade 12	0	0	0	Never	Rp 0	

Last updated: 27/5/2025, 13.33.59

Student Monitoring page

SCREENSHOTS

/school/foodmenu

The screenshot displays the 'Food Menu List' page of the 'Makan Bergizi Gratis' application. The left sidebar includes links for Dashboard, Student Monitoring, Food Menu List (which is selected), and Scan QR Code. The main content area features a dashboard with four key metrics: Total Menus (2 today), Total Portions (60 distributed), Efficiency (1.7% Avg: 10.0%), and Total Value (Rp 10.001). Below this is a 'Filters & Search' section with a search bar, dropdowns for All Status and Allocation Date, and date pickers. The 'Food Menu Allocations' section shows two entries: 'Gado Gado' and 'Nasi Goreng Kambing'. Each entry includes details like date, allocated portions, distributed portions, progress bar, value, students, and status. A message at the bottom indicates 'Showing 1 to 2 of 2 menus'. The footer shows the last update time as 'Last updated: 27/5/2025, 13.35.08'.

Makan Bergizi Gratis

Food Menu List

Dashboard

Student Monitoring

Food Menu List

Scan QR Code

Total Menus
2 today

Total Portions
60 1 distributed

Efficiency
1.7% Avg: 10.0%

Total Value
Rp 10.001

Filters & Search

Filter menus by status, date range, or search by name

Search menus... All Status Allocation Date dd/mm/yyyy dd/mm/yyyy Clear

Menu List Analytics Export Data

Food Menu Allocations

Detailed view of menu allocations and distribution progress

Menu	Date	Allocated	Distributed	Progress	Value	Students	Status
Gado Gado sehat sempurna Today	27 Mei 2025 Rp 10.001/portion	10	1 Today: 1	10.0%	Rp 10.001	1 +0 repeat	Active
Nasi Goreng Kambing enak kali la Today	27 Mei 2025 Rp 15.000/portion	50	0 Today: 0	0.0%	Rp 0	0 +0 repeat	Active

Showing 1 to 2 of 2 menus

Previous Next

Last updated: 27/5/2025, 13.35.08

Create an Account

TianHD (089520234982)
TianGamer@gmail.com

logout

Food Menu page

SCREENSHOTS

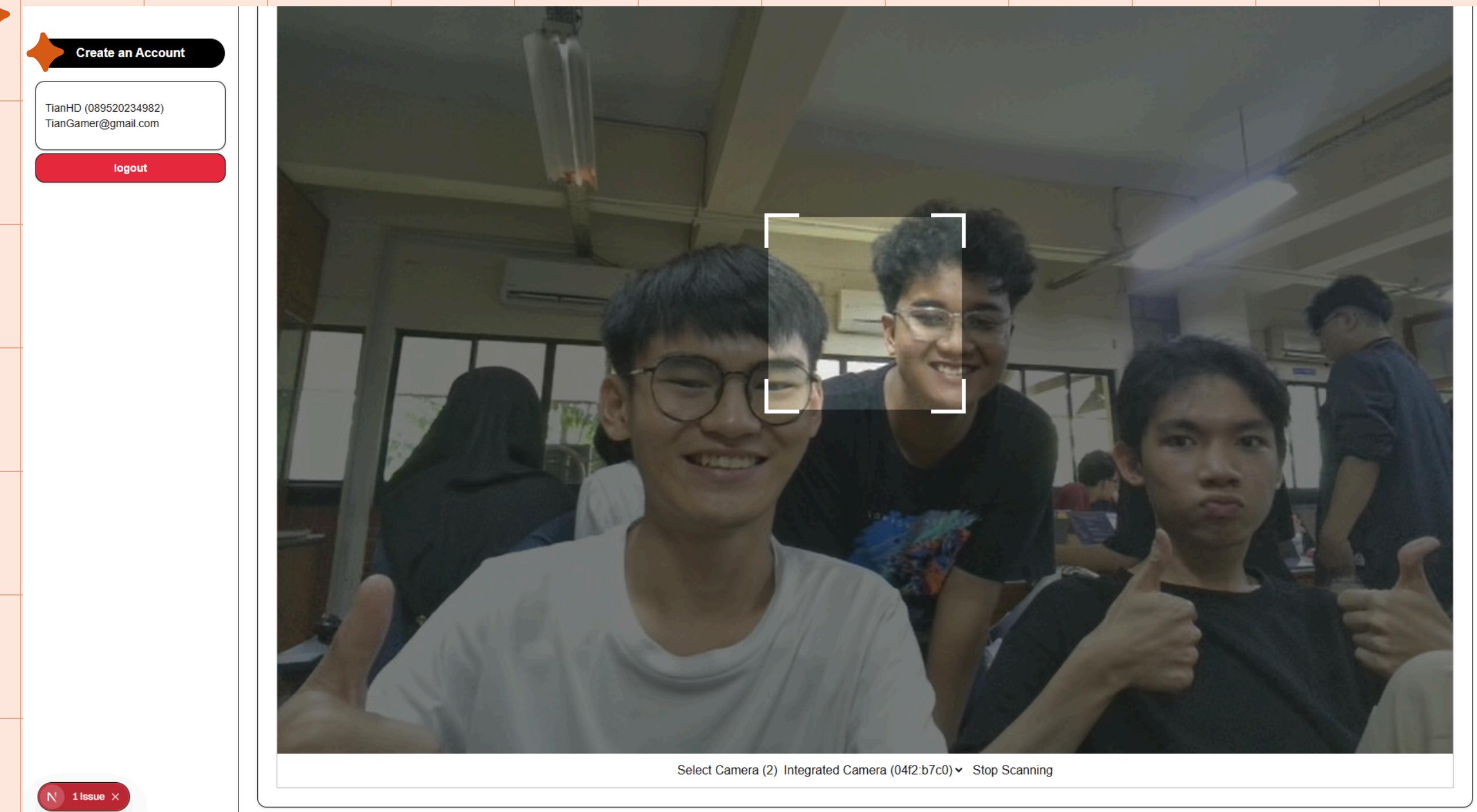
/school/scan

The screenshot shows the 'Scan Student QR' page of the 'Makan Bergizi Gratis' application. The left sidebar includes links for Dashboard, Student Monitoring, Food Menu List, and Scan QR Code, with 'Scan QR Code' being the active tab. The main content area displays 'Today's Available Menus' with two items: 'Gado Gado' and 'Nasi Goreng Kambing'. Each menu card shows its name, description, price (Rp 10,000 or Rp 15,000), availability (9/10 or 50/50), and distribution count (1 or 0). Below the menu cards is a 'QR Code Scanner' section with a camera preview area and a status message: 'Select Camera (2) Integrated Camera (04f2:b7c0) ▾ Launching Camera...'. The bottom left of the page features a 'Create an Account' button and a user profile section with the name 'TianHD (089520234982)' and email 'TianGamer@gmail.com', along with a 'logout' button.

Scan Student QR page

SCREENSHOTS

/school/scan



Scan Student QR page (camera scanning)

SCREENSHOTS

/student/home

The screenshot shows the 'Student Home' page for Bonifasius Raditya (ID: 2306161952, Grade 12). The page has a header with the title 'Welcome, Bonifasius Raditya!' and the subtitle 'Student Dashboard - MBGku (Makan Bergizi Gratis)'. It displays three summary boxes: 'Total Meals Claimed' (1), 'This Month' (1), and 'This Week' (1). Below this is a 'Meal Claim QR Code' section with instructions and a 'Generate QR Code' button. At the bottom, there are sections for 'Today's Available Menus' and 'Meal History'. The 'Today's Available Menus' section shows two items: 'Gado Gado' (sehat sempurna, claimed) and 'Nasi Goreng Kambing' (enak kai la). The 'Meal History' section is currently empty.

Makan Bergizi Gratis

Welcome, Bonifasius Raditya!

Student Dashboard - MBGku (Makan Bergizi Gratis)

2306161952 • A • Grade 12

Total Meals Claimed
1

This Month
1

This Week
1

Meal Claim QR Code

Generate your QR code to claim today's meal

- QR Format: mbgku-2306161952
- Valid for today only
- One meal per day limit

Generate QR Code

Today's Menu

Meal History

Today's Available Menus

You have already claimed your meal for today

Gado Gado
sehat sempurna
Claimed

Nasi Goreng Kambing
enak kai la

Bonifasius Raditya (2306161952)
A 12

logout

Student Home page

SCREENSHOTS

/student/qr

The screenshot displays the 'QR Code for Meal Claim' interface. On the left, a sidebar shows a user profile icon and the text 'Makan Bergizi Gratis'. Below it are 'Home' and 'Scan QR Code' buttons. At the bottom of the sidebar is a box containing the student's name, number, class, and grade: 'Bonifasius Raditya (2306161952) A 12'. A red 'logout' button is at the bottom right of the sidebar.

The main content area is titled 'QR Code for Meal Claim'. It shows 'Student Information' with fields for Name, Student Number, Class, and Grade. The data entered is: Name: Bonifasius Raditya, Date: Selasa, 27 Mei 2025; Student Number: 2306161952, Time: 13.41.51; Class: A, Status: 12. To the right of this information is a blue button labeled 'Already Claimed'.

Below this is a section titled 'Meal Claim QR Code' with the message 'You have already claimed your meal for today. Come back tomorrow!'. It features a dashed box containing a green checkmark and the text 'Already Claimed Today'. At the bottom of this section is a 'Refresh Status' button.

Student Scan page

CONCLUSION

- MBG-ku adalah solusi digital untuk mendukung program nasional MBG.
- Menyediakan distribusi yang akurat, adil, dan tercatat.
- Menyederhanakan kerja pemerintah, sekolah, dan siswa.

THANK YOU EAT HEALTHY!

MBG-ku
Makan Bergizi Gratis -
kemana uangnya??

