

Laporan Progres Mingguan - SORA

Kelompok : 6

Mitra : Rumah Makan Salwa

Pekan ke - : 11

Tanggal : 22/04/2025

Anggota Kelompok

- **Amazia Devid Saputra dengan NIM 10231013**
 - **Dyno Fadillah Ramadhani dengan NIM 10231033**
 - **Rani Ayu Dewi dengan NIM 10231079**
 - **Siti Nur Azizah Putri Awni dengan NIM 10231087**
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Progress Summary

Minggu ini tim telah berhasil mengimplementasikan sistem manajemen restoran menggunakan Laravel Filament untuk backend dan React untuk frontend. Pencapaian utama meliputi:

1. Multi-User Authentication System

- Implementasi 3 level user (Superadmin, Admin, Pelanggan)
- Sistem login terpisah untuk masing-masing role
- Keamanan route dan resource berdasarkan role

2. Menu Management System

- CRUD operasi untuk menu makanan
- Upload dan crop gambar menu
- Manajemen stok realtime
- Kategorisasi menu

3. Customer Management

- Registrasi dan manajemen pelanggan
- Profile photo management
- Riwayat pemesanan pelanggan
- Validasi data pelanggan

Accomplished Tasks

1. Backend Development (Laravel Filament)

- Implementasi AdminPanelProvider dan SuperAdminPanelProvider
- Konfigurasi middleware authentication untuk tiap panel

- Resource management (Menu, Pelanggan, Cart)
- File upload system dengan disk public

2. Frontend Development (React)

- Halaman login/register responsif
- Komponen menu dengan fitur filter dan search
- Shopping cart dengan state management
- Integrasi API dengan axios

3. Database & API

- Migrasi database untuk semua entitas
- API endpoints untuk autentikasi dan operasi CRUD
- Relasi antar tabel (foreign keys)
- Data seeding untuk testing

Challenges & Solutions

1. Multi-Panel Authentication

- **Challenge:** Mengatur akses berbeda untuk Superadmin dan Admin
- **Solution:** Implementasi guard terpisah dan middleware custom

```
public static function canAccess(): bool
{
    return Auth::guard('superadmin')->check();
}
```

2. File Upload Management

- **Challenge:** Handling berbagai jenis file dan ukuran
- **Solution:** Konfigurasi disk storage dan image processing

```
Forms\Components\FileUpload::make('gambar')
    ->image()
    ->disk('public')
    ->directory('menu-photos')
    ->imageEditor()
    ->imageResizeMode('cover')
```

3. State Management

- **Challenge:** Sinkronisasi state cart dengan backend
- **Solution:** Implementasi React Context dan local storage

```
const CartContext = createContext();
const CartProvider = ({ children }) => {
  const [cart, setCart] = useState([]);
  // Implementation
};
```

Next Week Plan

1. Core Feature #2: Reservation System

- Implementasi sistem reservasi meja
- Kalender pemilihan tanggal dan waktu
- Manajemen kapasitas meja
- Konfirmasi reservasi via email
- Notifikasi pengingat reservasi

2. Core Feature #3: Payment & Order Tracking

- Integrasi payment gateway
- Status tracking pesanan realtime
- Riwayat pemesanan pelanggan
- Sistem notifikasi status pesanan
- Generasi invoice otomatis

3. UI Enhancement

- Implementasi responsive design
- Optimasi mobile view
- Animasi dan transisi
- Accessibility improvements
- Dark mode implementation

4. Unit Testing

- Test Case 1: Validasi Reservasi

```
public function test_reservation_validation()
{
    // Test untuk memastikan reservasi tidak dapat dibuat pada waktu
    // yang sudah penuh
    // Test untuk validasi jumlah orang maksimal per meja
    // Test untuk minimum waktu pemesanan sebelum kedatangan
}
```

- Test Case 2: Kalkulasi Payment

```
public function test_payment_calculation()
{
    // Test perhitungan total harga dengan diskon
    // Test kalkulasi pajak
    // Test validasi minimum order
}
```

- Test Case 3: Order Status Flow

```
public function test_order_status_flow()
{
    // Test perubahan status dari pending ke confirmed
    // Test notifikasi pada setiap perubahan status
    // Test pembatalan order
}
```

Contributions

- **Amazia Devid Saputra:**

- Frontend development (React components)
- API integration
- State management implementation

- **Dyno Fadillah Ramadhani:**

- Backend architecture
- Filament panel configuration
- Resource implementation
- Authentication system

- **Rani Ayu Dewi:**

- UI/UX design
- Frontend routing
- Component styling
- API documentation

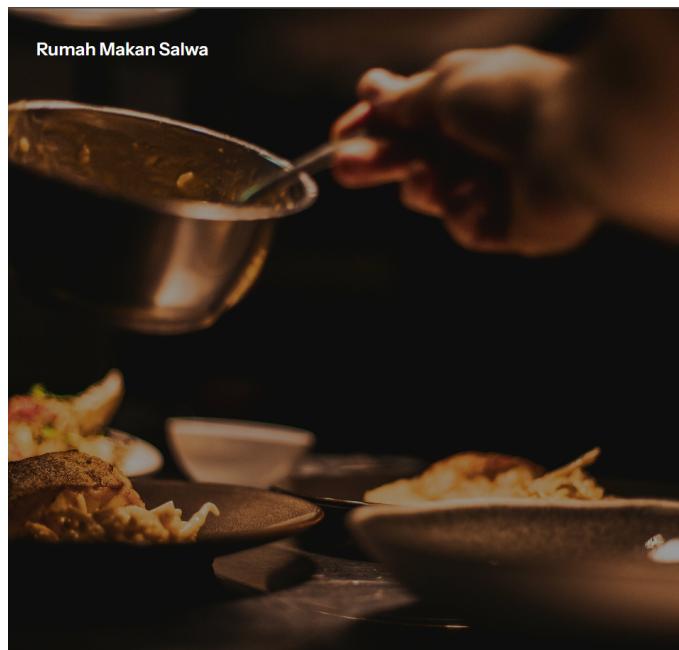
- **Siti Nur Azizah Putri Awni:**

- Database design
- API development
- Testing implementation
- Documentation

Screenshots / Demo

1. Sistem Autentikasi

Login Pelanggan



Rumah Makan Salwa

Welcome Back

Sign in to access your account

EMAIL ADDRESS

PASSWORD

Remember me

SIGN IN

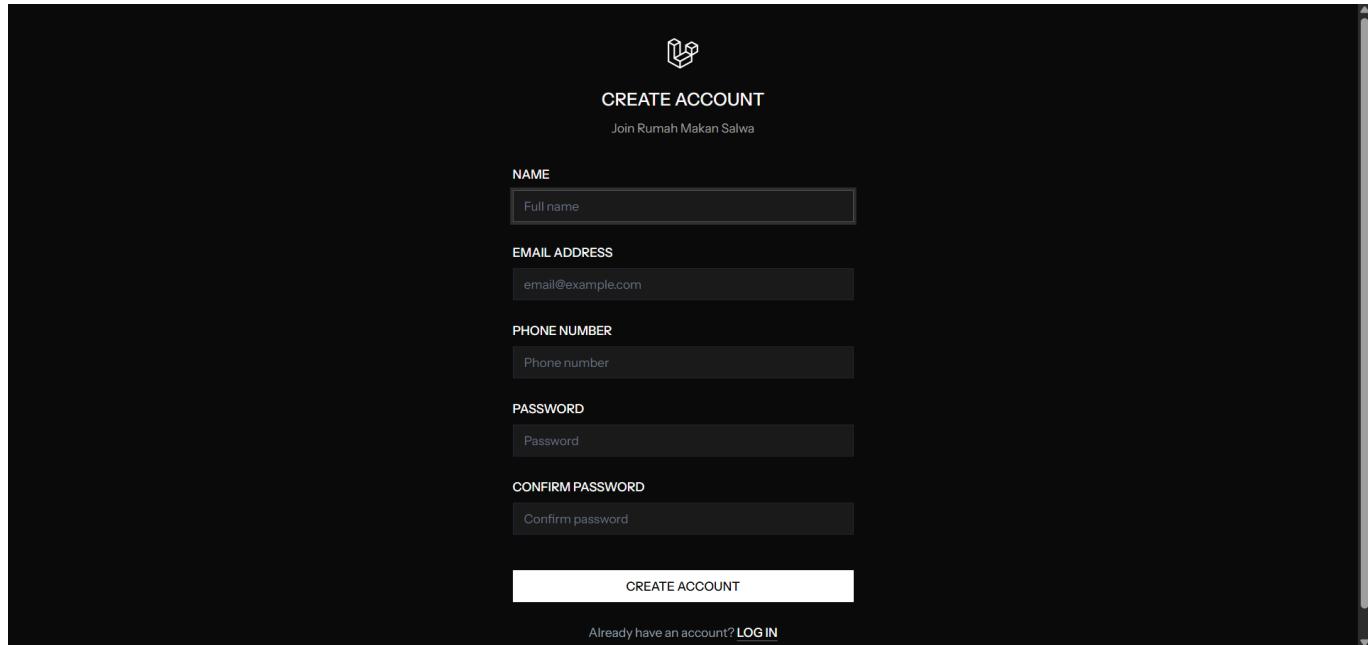
or

Don't have an account? [Create account](#)

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- Form validasi email dan password
- Remember me functionality
- Password reset option
- Error handling dan feedback

Register Pelanggan



CREATE ACCOUNT

Join Rumah Makan Salwa

NAME

EMAIL ADDRESS

PHONE NUMBER

PASSWORD

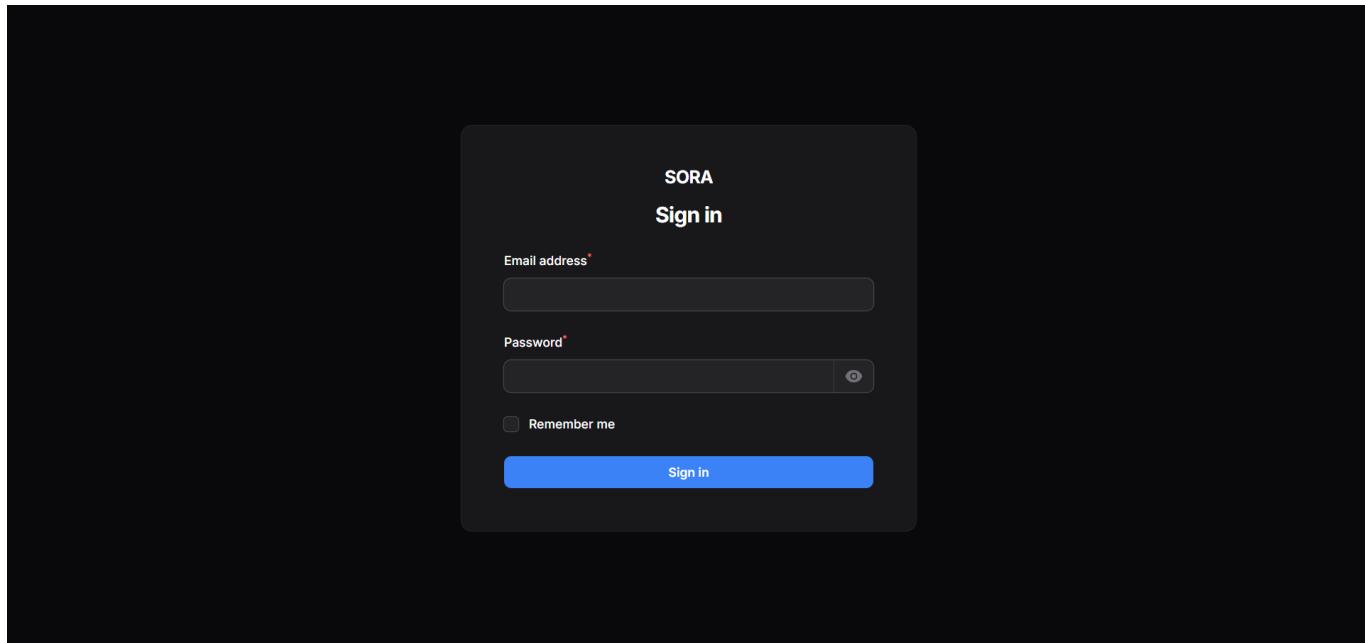
CONFIRM PASSWORD

CREATE ACCOUNT

Already have an account? [LOGIN](#)

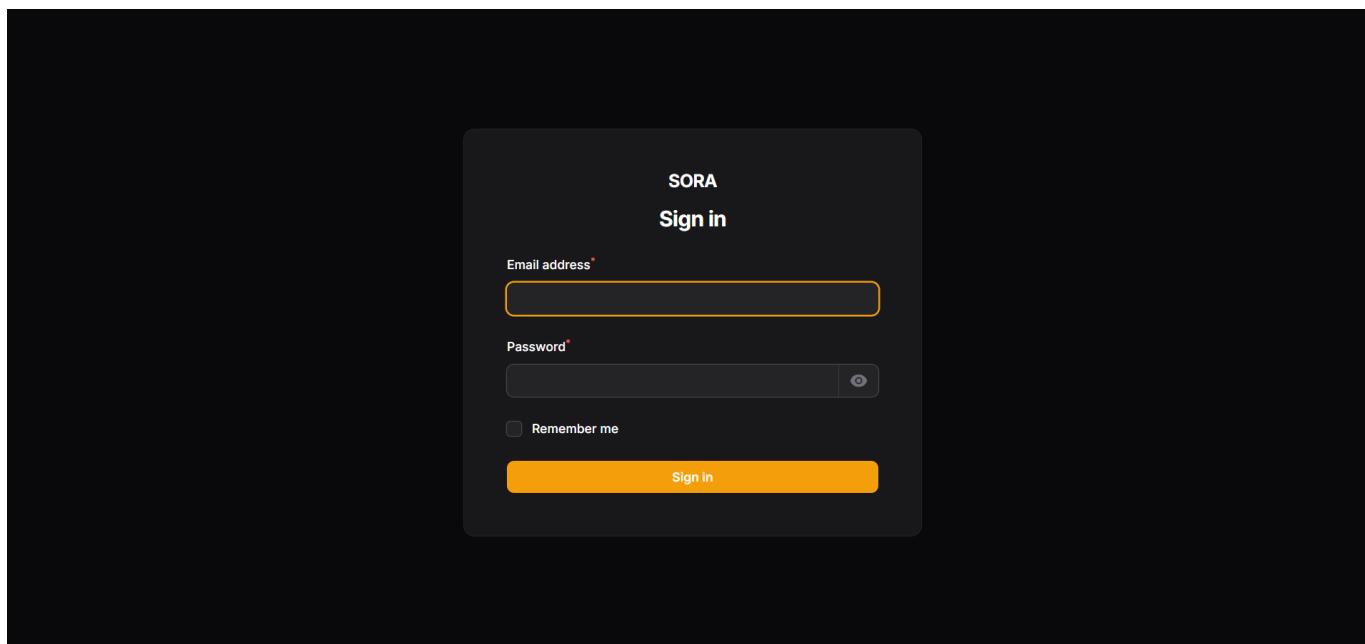
- Validasi data real-time
- Password strength indicator
- Profile photo upload
- Terms and conditions checkbox

Login Super Admin



- Secure authentication
- Session management
- Activity logging
- Two-factor authentication option

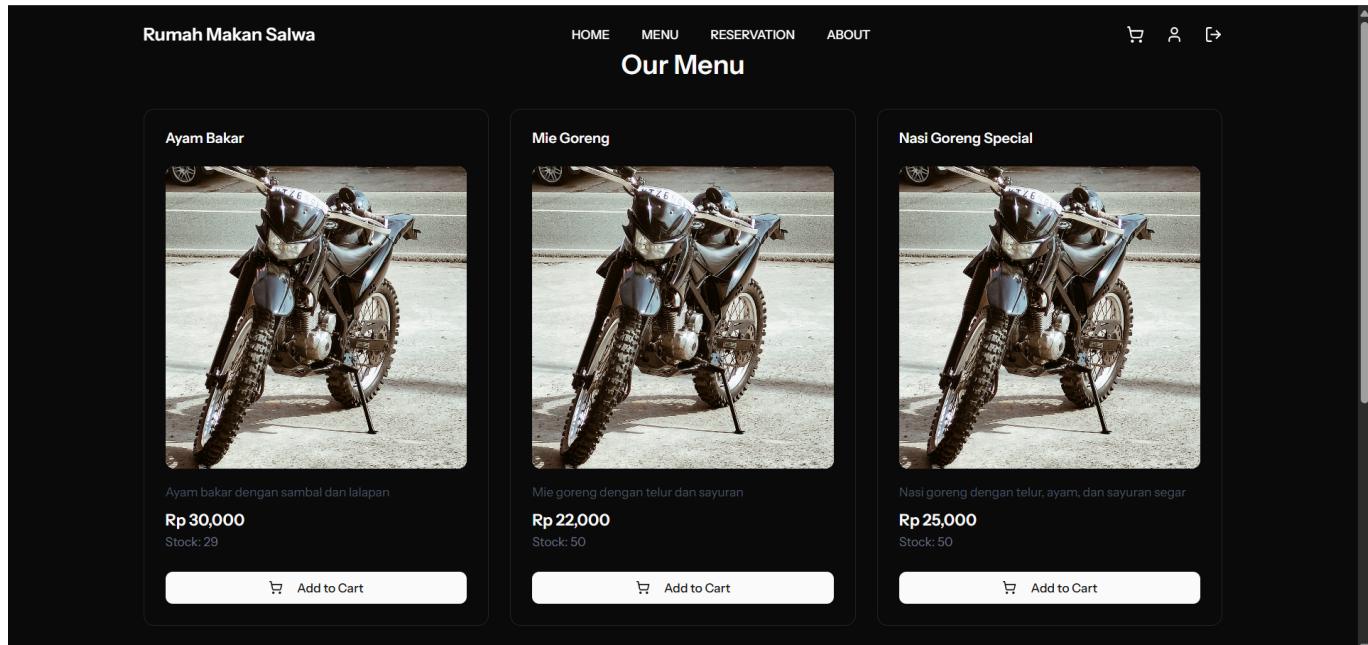
Login Admin



- Role-based access control
- Limited permissions
- Audit logging
- Session timeout handling

2. Core Feature #1

Fitur Pesan Menu



Menu Management

- **Create Menu**

```
// MenuResource.php
public static function form(Form $form): Form
{
    return $form->schema([
        Forms\Components\TextInput::make('name')
            ->required()
            ->maxLength(255),
        Forms\Components\TextInput::make('price')
            ->required()
            ->numeric()
            ->prefix('Rp'),
        Forms\Components\FileUpload::make('gambar')
            ->image()
            ->directory('menu-photos'),
        Forms\Components\Textarea::make('desc')
            ->maxLength(1000),
        Forms\Components\TextInput::make('stok')
            ->required()
            ->numeric()
            ->min(0),
    ]);
}
```

Frontend Implementation

```
// MenuCard.jsx
const MenuCard = ({ menu }) => {
    const { addToCart } = useCart();
```

```
return (
  <div className="bg-white rounded-lg shadow-md p-4">
    <img
      src={`/storage/${menu.gambar}`}
      alt={menu.name}
      className="w-full h-48 object-cover rounded"
    />
    <h3 className="text-xl font-bold mt-2">{menu.name}</h3>
    <p className="text-gray-600">{menu.desc}</p>
    <div className="flex justify-between items-center mt-4">
      <span className="text-lg font-semibold">
        Rp {menu.price.toLocaleString()}
      </span>
      <button
        onClick={() => addToCart(menu)}
        className="bg-primary text-white px-4 py-2 rounded"
      >
        Add to Cart
      </button>
    </div>
  </div>
);
};
```

Features Implemented

1. Menu Display

- Grid layout dengan gambar menu
- Informasi detail menu
- Harga dan stok realtime
- Filter dan search

2. Shopping Cart

- Add/remove items
- Quantity adjustment
- Price calculation
- Cart persistence

3. Order Processing

- Order validation
- Stock checking
- Order confirmation
- Receipt generation

3. Integration Test

3.1 API Endpoint Testing

Authentication Endpoints

- **POST /api/auth/register**

```
// Request
{
  "name": "Test User",
  "email": "test@example.com",
  "password": "password123",
  "no_telepon": "081234567890"
}
// Response: 201 Created
{
  "message": "User registered successfully",
  "user": {
    "id": 1,
    "name": "Test User",
    "email": "test@example.com"
  }
}
```

- **POST /api/auth/login**

```
// Request
{
  "email": "test@example.com",
  "password": "password123"
}
// Response: 200 OK
{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9...",
  "user": {
    "id": 1,
    "name": "Test User"
  }
}
```

Menu Endpoints

- **GET /api/menus**

```
// Response: 200 OK
{
  "data": [
    {
      "id": 1,
      "name": "Nasi Goreng",
      "price": 15000,
```

```

        "desc": "Nasi goreng spesial",
        "gambar": "menu/nasi-goreng.jpg",
        "stok": 50
    }
]
}

```

3.2 Frontend-Backend Integration

Menu Display Integration

```

// Frontend React Component
const MenuList = () => {
  const [menus, setMenus] = useState([]);

  useEffect(() => {
    // Fetch menus from API
    axios.get('/api/menus')
      .then(response => setMenus(response.data.data))
      .catch(error => console.error(error));
  }, []);

  return (
    <div className="grid grid-cols-3 gap-4">
      {menus.map(menu => (
        <MenuCard key={menu.id} menu={menu} />
      ))}
    </div>
  );
};

```

3.3 Database Integration Testing

```

// MenuTest.php
public function test_can_create_menu()
{
    $response = $this->postJson('/api/menus', [
        'name' => 'Test Menu',
        'price' => 25000,
        'desc' => 'Test Description',
        'stok' => 100
    ]);

    $response->assertStatus(201)
        ->assertJson([
            'message' => 'Menu created successfully'
        ]);

    $this->assertDatabaseHas('menus', [

```

```
'name' => 'Test Menu',
'price' => 25000
]);
}
```

3.4 Authentication Flow Testing

1. Register Flow:

- Form validation
- Email uniqueness check
- Password hashing
- Profile creation

2. Login Flow:

- Credentials validation
- Token generation
- Session management
- Route protection

3.5 File Upload Integration

```
// MenuResource.php
public function test_can_upload_menu_image()
{
    Storage::fake('public');

    $file = UploadedFile::fake()->image('menu.jpg');

    $response = $this->postJson('/api/menus', [
        'name' => 'Menu with Image',
        'price' => 30000,
        'gambar' => $file
    ]);

    $response->assertStatus(201);
    Storage::disk('public')->assertExists('menu/' . $file->hashName());
}
```

Link Github Repository untuk website : <https://github.com/brosora6/sora.git>

Link Github Repository untuk Laporan : https://github.com/justdyn/laporan_proweb.git