

kelompok 9: Analisis dan Perancangan Aplikasi Booking Lapangan Olahraga

I.1 Anggota:

- Ferry Ardiansyah 2350081001
- Muhamad Yasir Noval 2350081004
- Fauzy Faadillah 2350081020
- Ricky Gunaldo 2350081028

I.2 Deskripsi:

Aplikasi ini memudahkan pengguna untuk mencari dan memesan lapangan olahraga secara online.

I.3 Kebutuhan Fungsional:

- Pencarian lapangan berdasarkan lokasi dan harga.
- Sistem pemesanan dan pembayaran online.
- Notifikasi jadwal bermain.
- Fitur review dan rating lapangan.

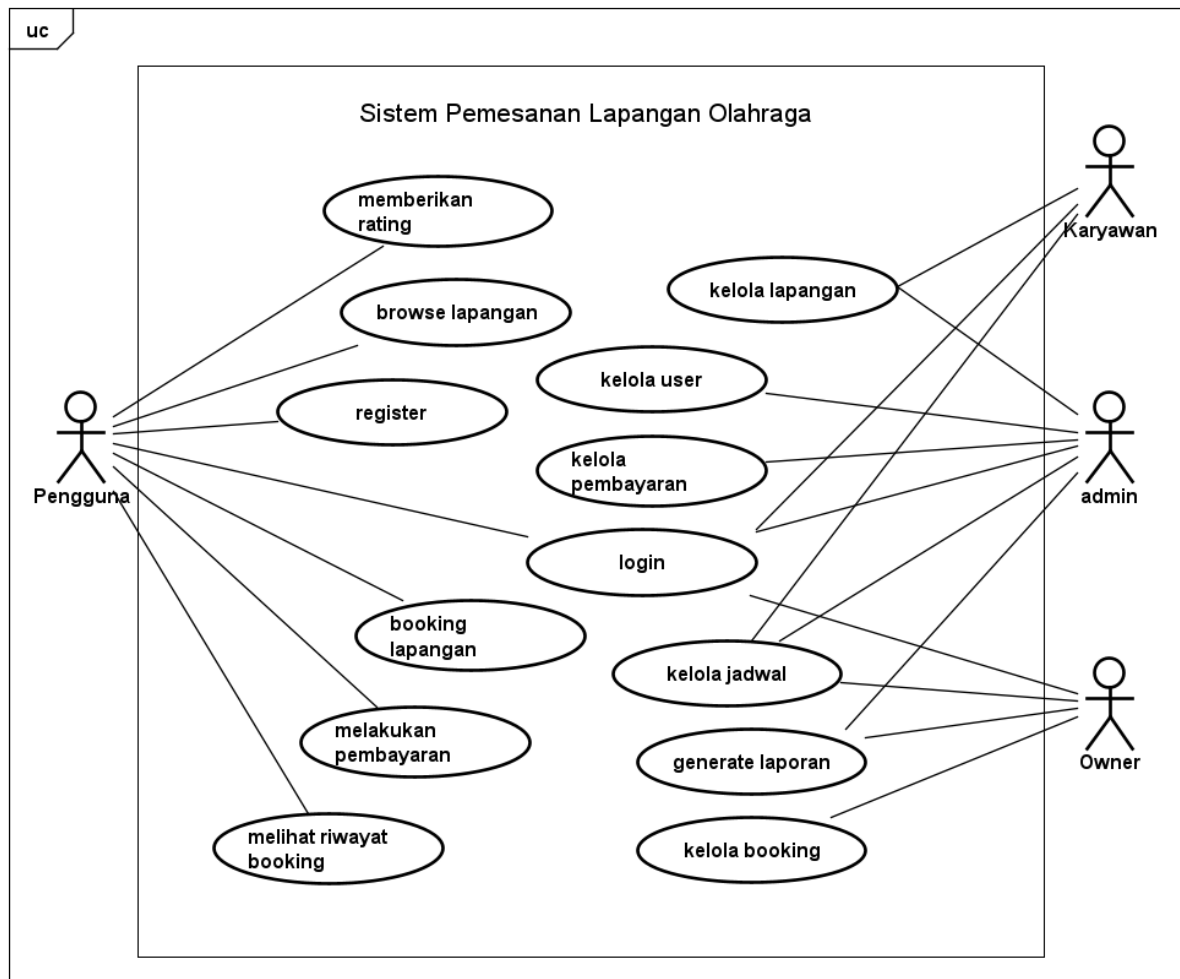
I.4 Kebutuhan Non-Fungsional:

- Keamanan transaksi dan data pengguna.
- Performa tinggi untuk menangani banyak pemesanan.

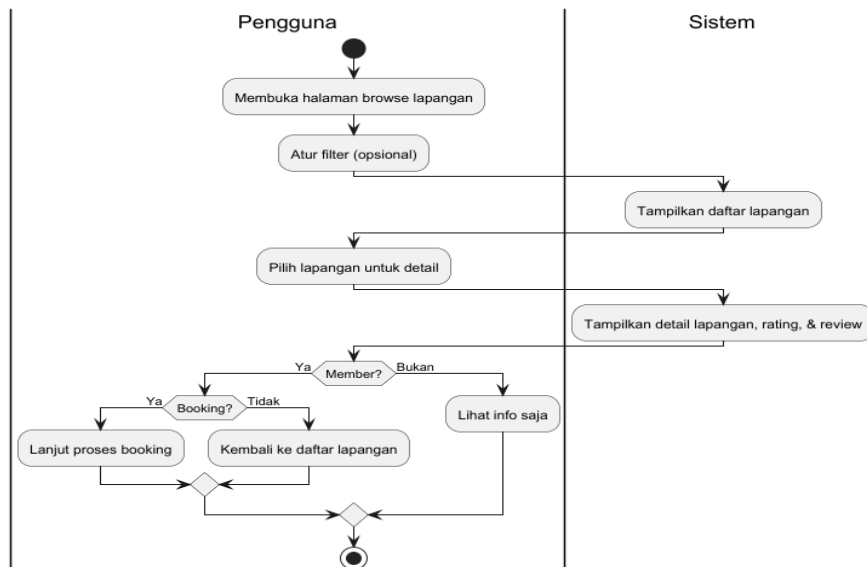
I.5 Requirement:

- Smartphone Android versi 4.0 atau lebih tinggi.
- Sistem mendukung pencarian dan pemesanan lapangan secara online.
- Fitur notifikasi untuk mengingatkan jadwal bermain
- Sistem pembayaran online yang aman dan mudah digunakan.
- Data pengguna dilindungi dengan enkripsi selama proses transaksi.
- Sistem dirancang untuk menangani banyak pengguna secara bersamaan tanpa kendala performa.

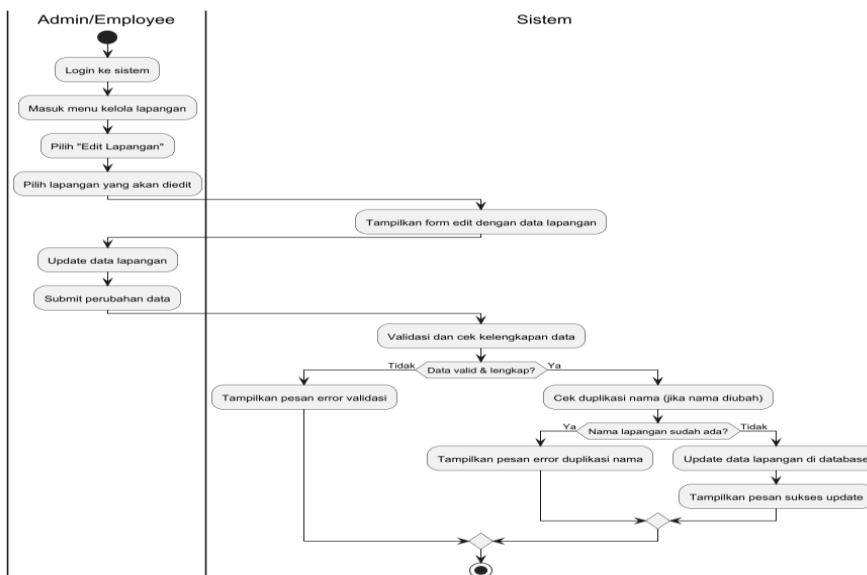
I.6 Use Case Diagram:



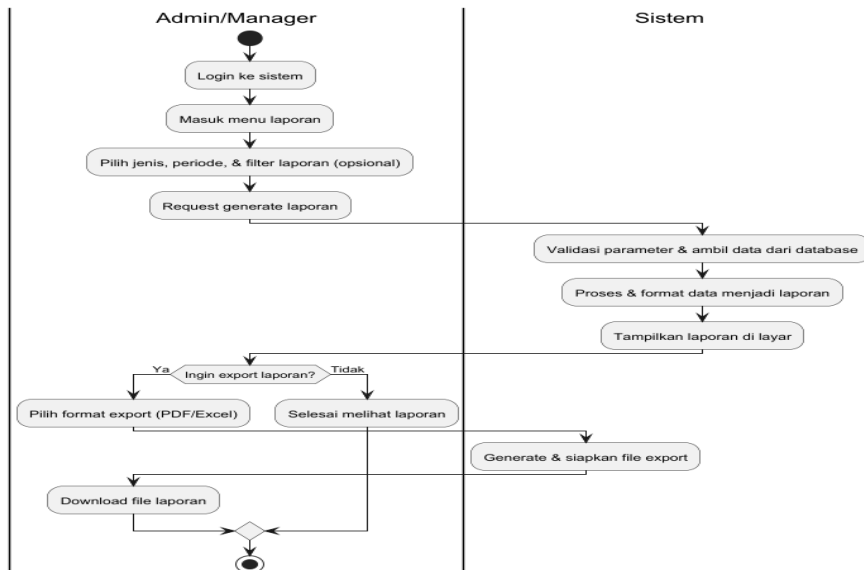
I.7 Activity Diagram



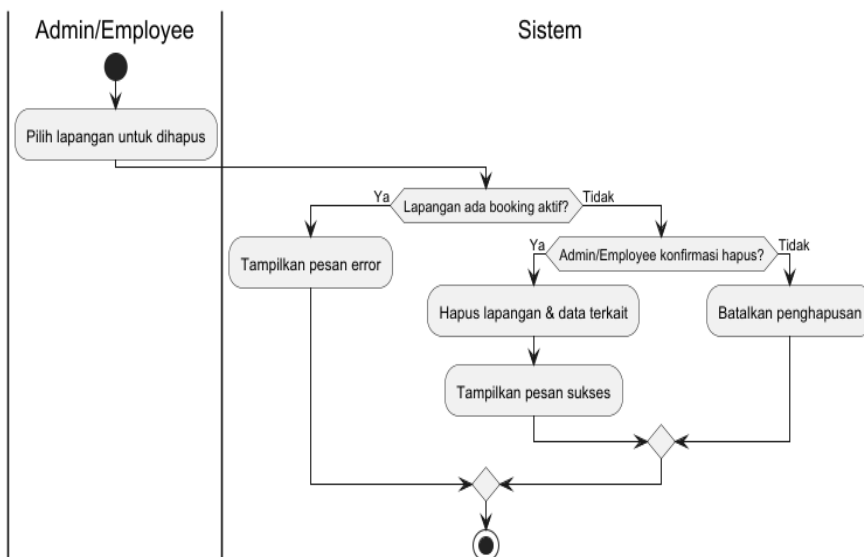
Gambar 1. 1 Browse Lapangan



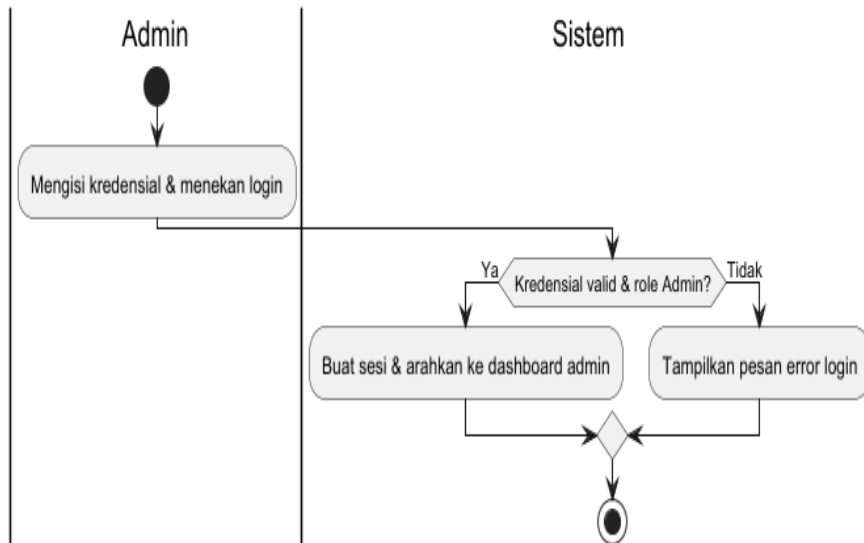
Gambar 1. 2 Edit Lapangan



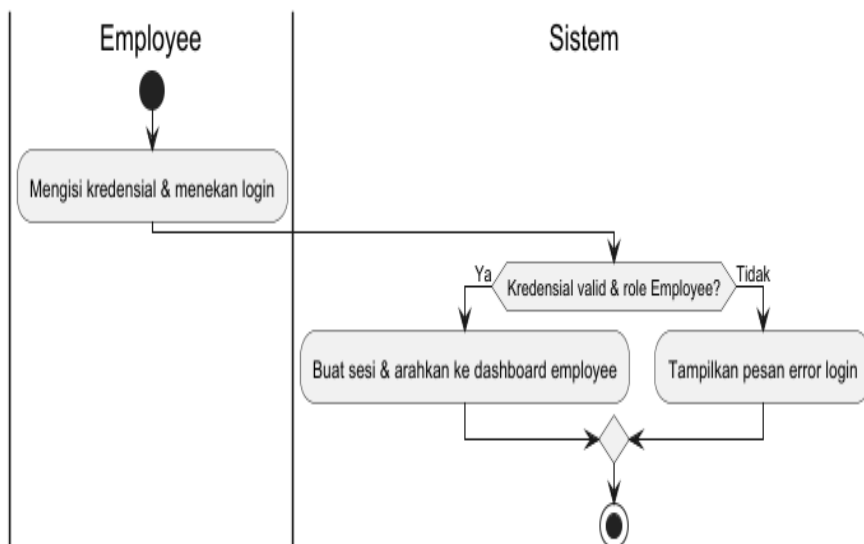
Gambar 1. 3 Generate Laporan



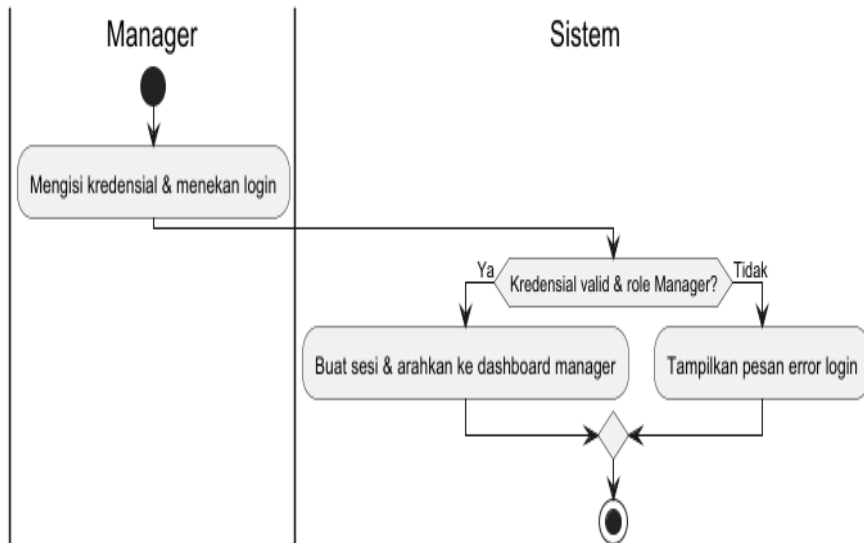
Gambar 1. 4 Hapus Lapangan



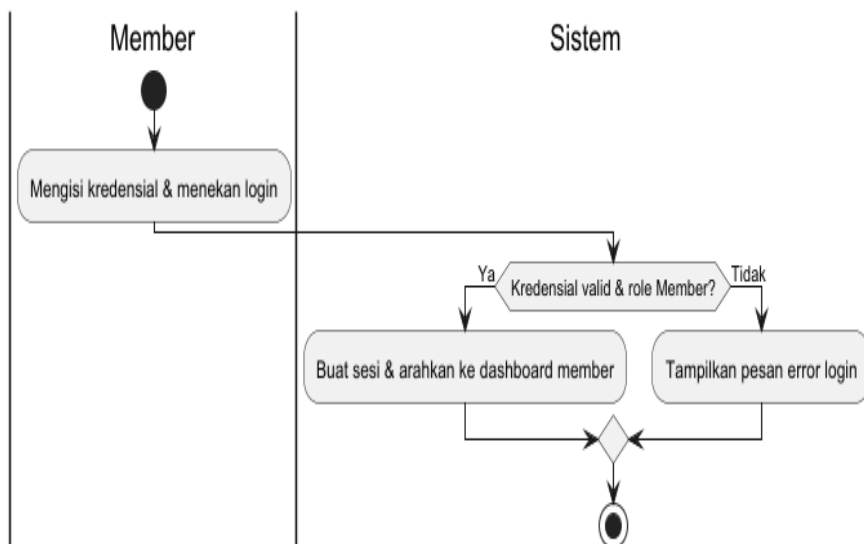
Gambar 1. 5 Login Admin



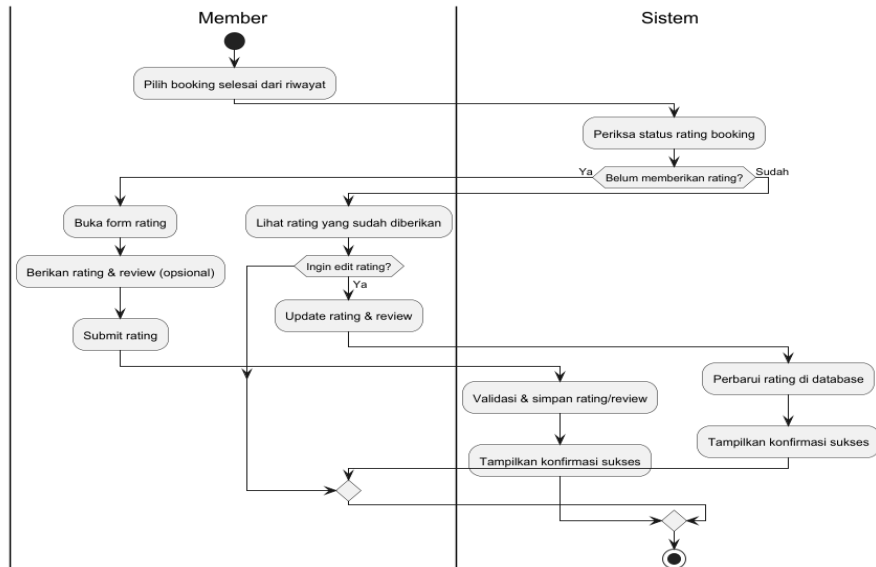
Gambar 1. 6 Login Karyawan



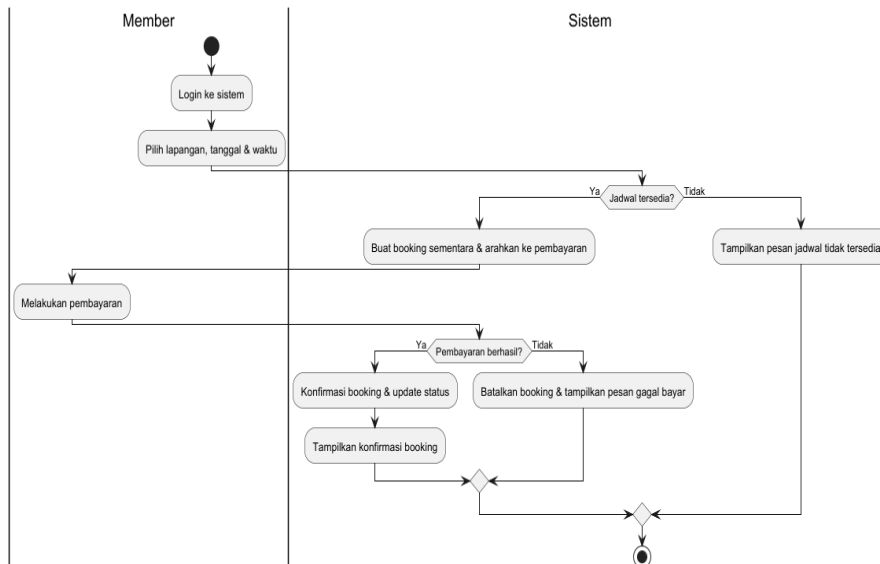
Gambar 1. 7 Login Manager



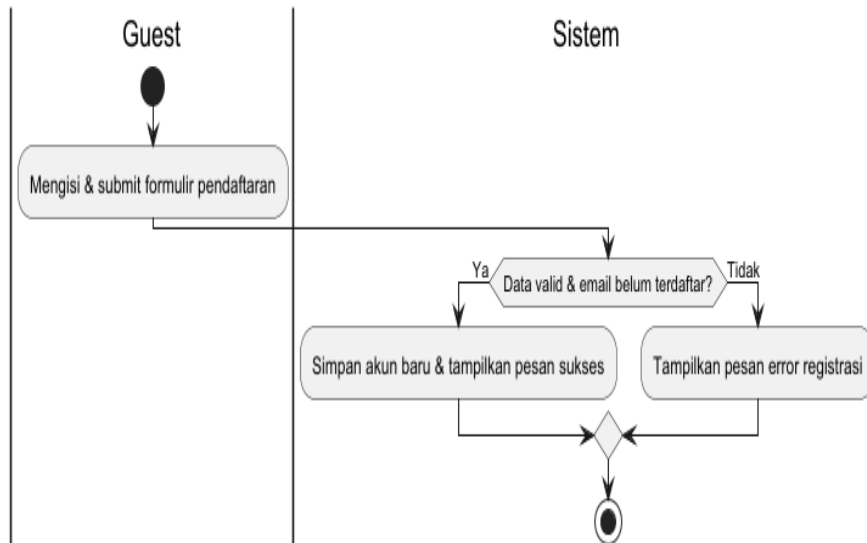
Gambar 1. 8 Login Member



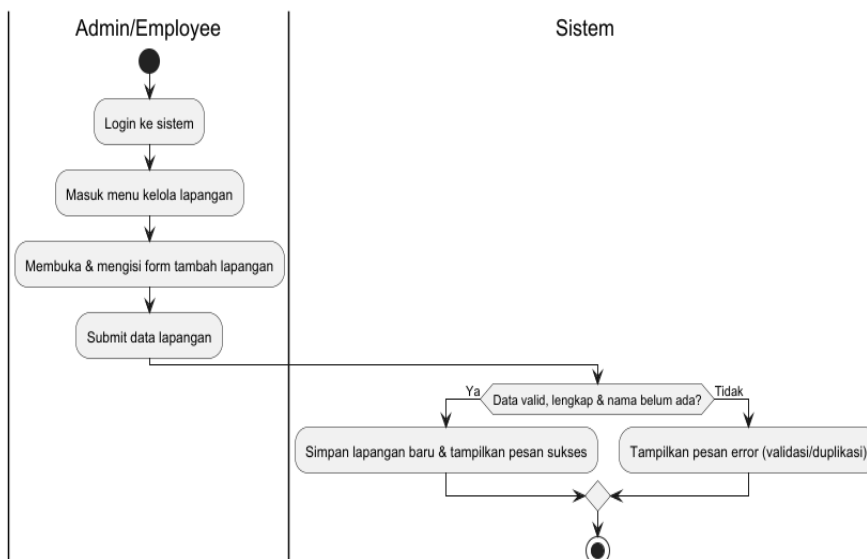
Gambar 1. 9 Memberikan rating



Gambar 1. 10 Proses Booking

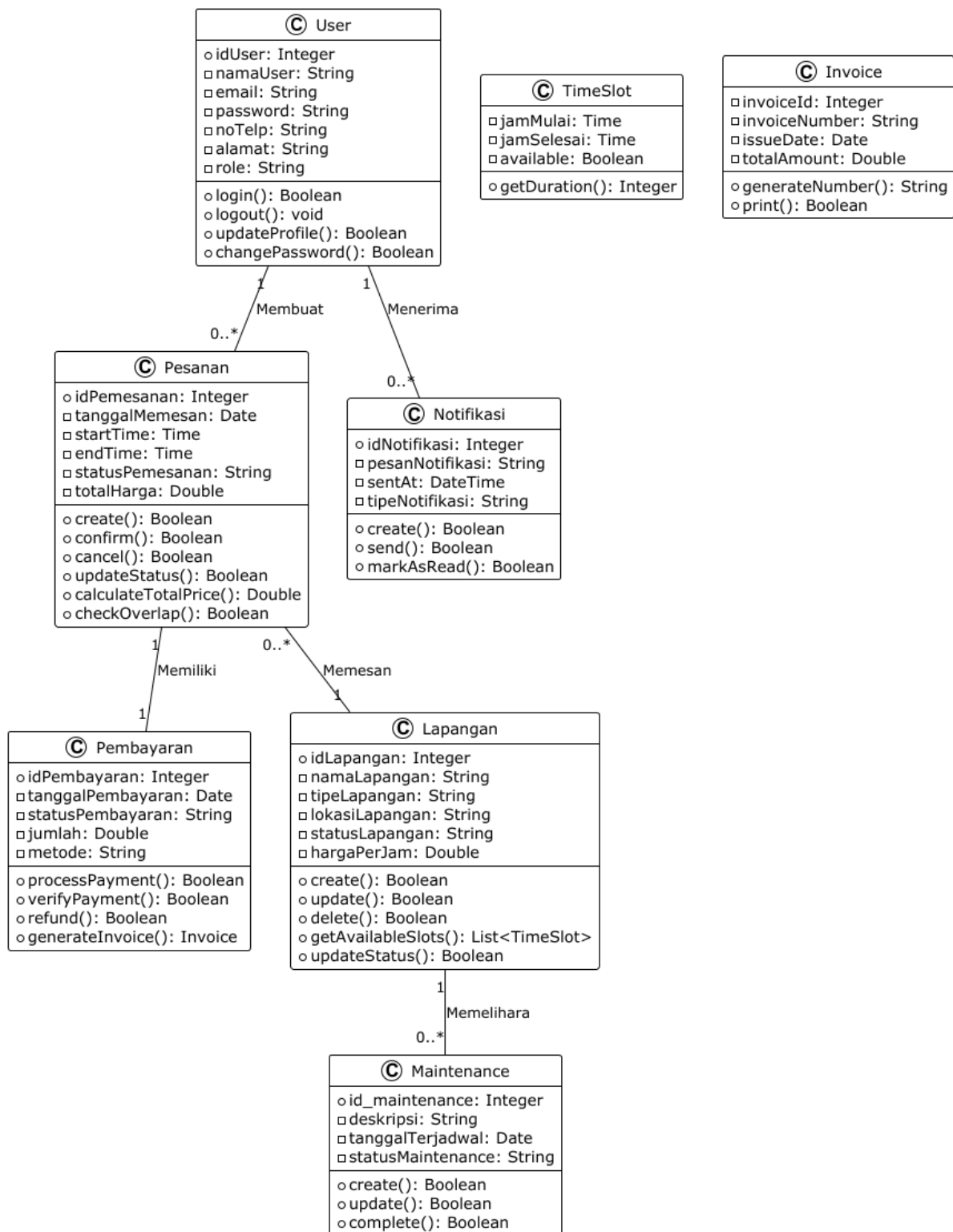


Gambar 1. 11 registrasi guest



Gambar 1. 12 Tambah Lapangan

I.8 Class Diagram

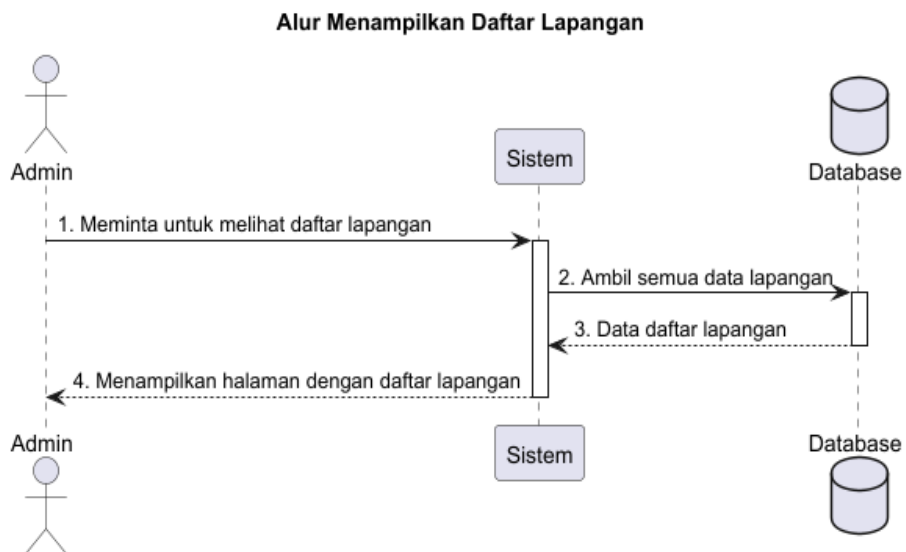
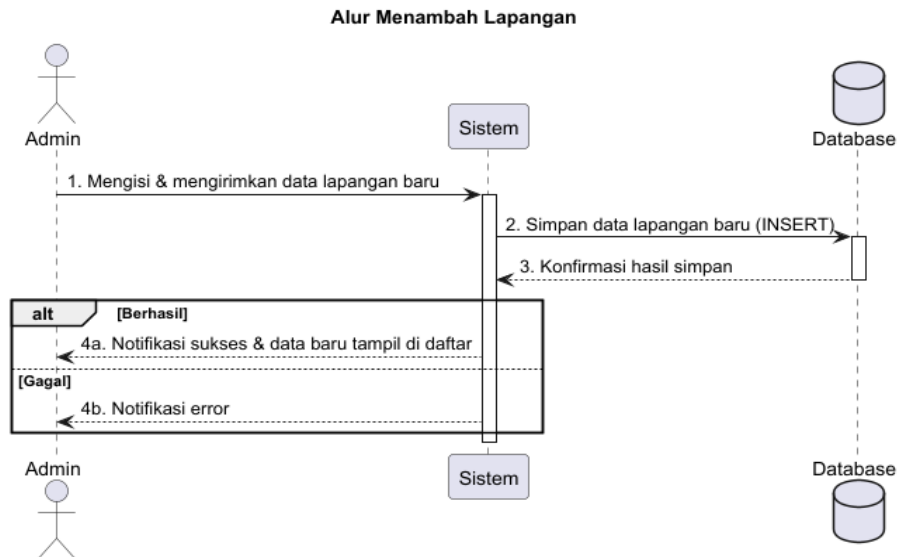


Gambar 1. 13 Class Diagram

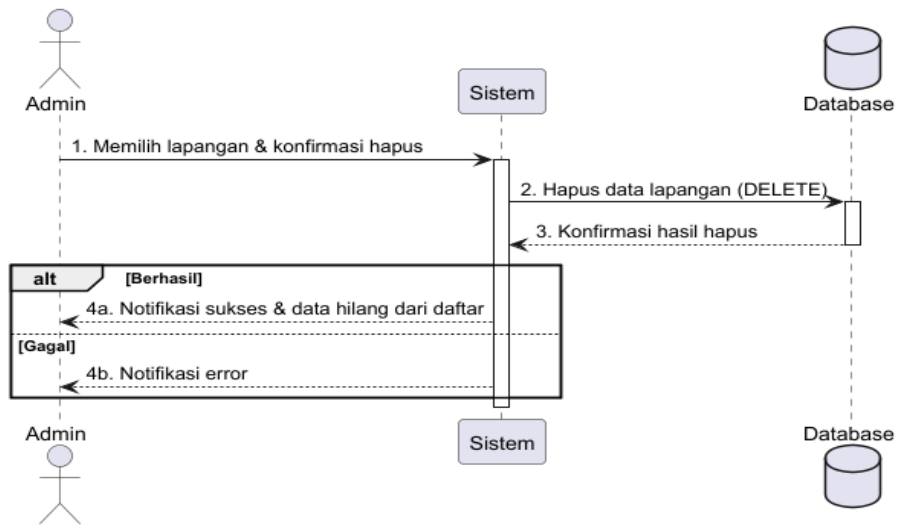
I.9 Sequence Diagram

I.9.A. Admin

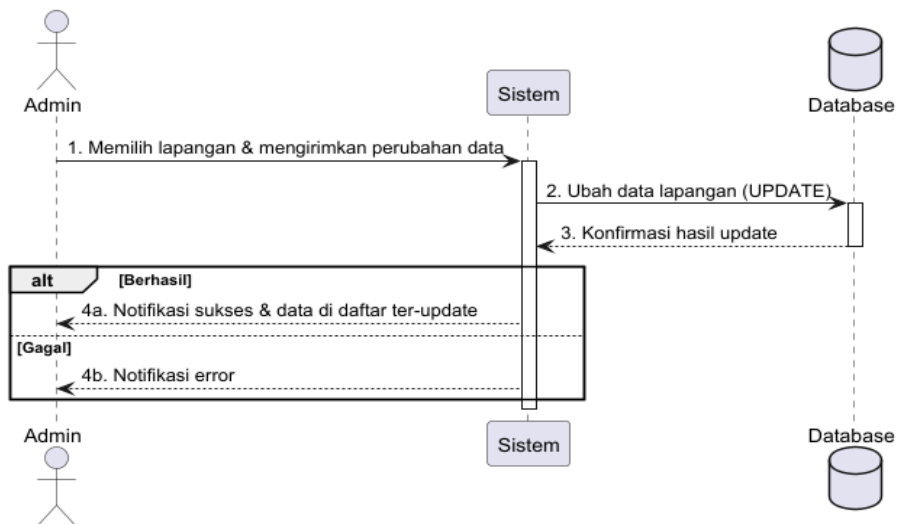
I.9.A.1 Kelola Data Lapangan



Alur Menghapus Lapangan

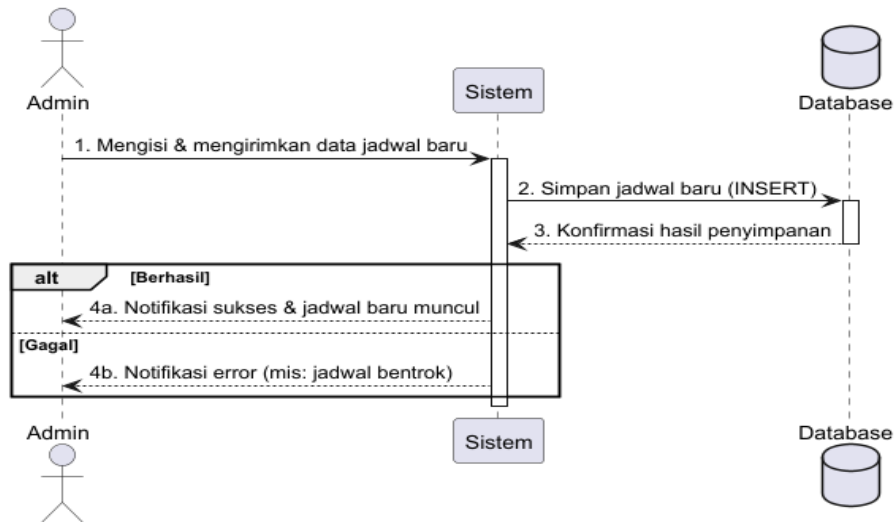


Alur Mengubah Lapangan

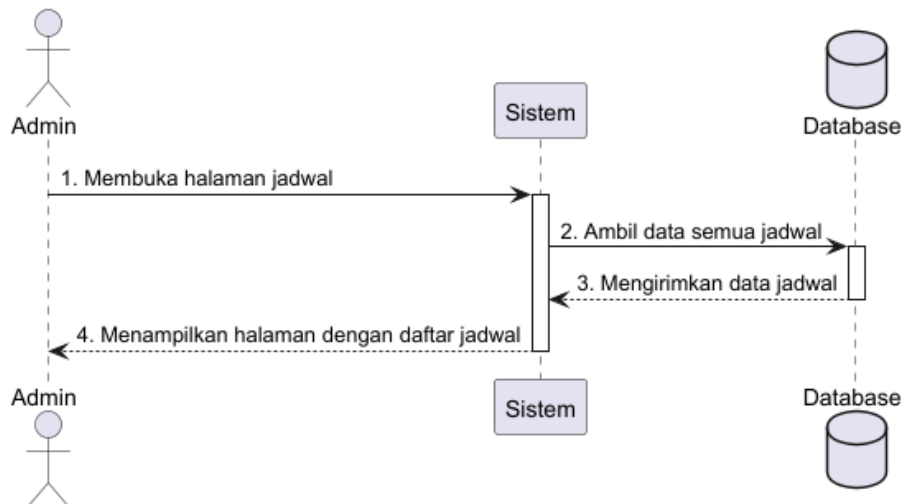


I.9.A.2 Kelola Jadwal

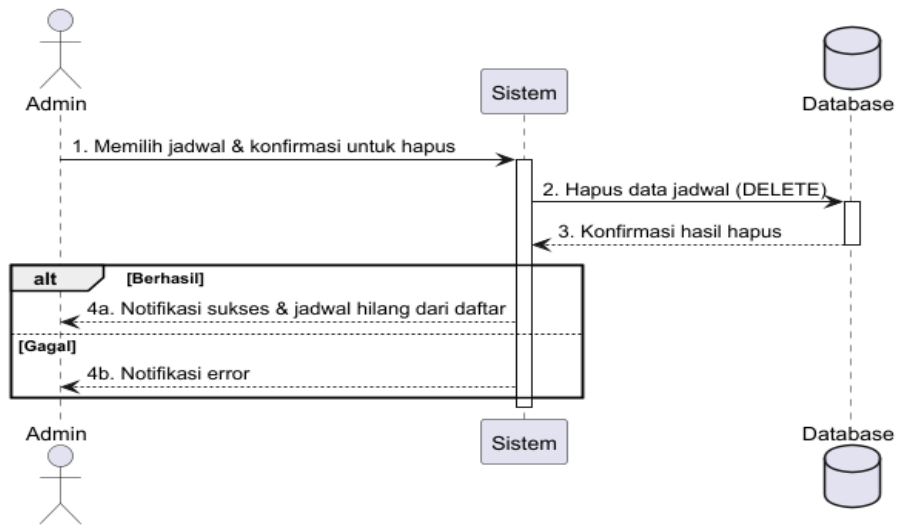
Alur Membuat Jadwal Baru



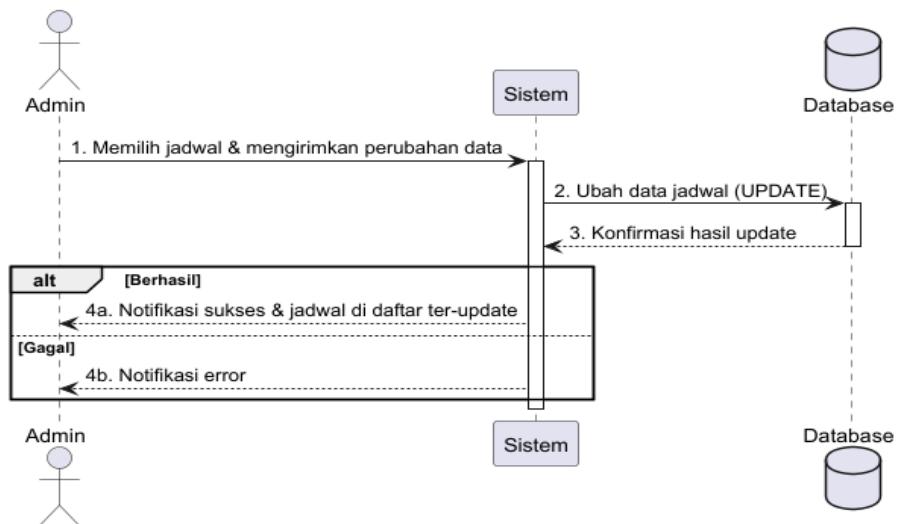
Alur Menampilkan Daftar Jadwal



Alur Menghapus Jadwal

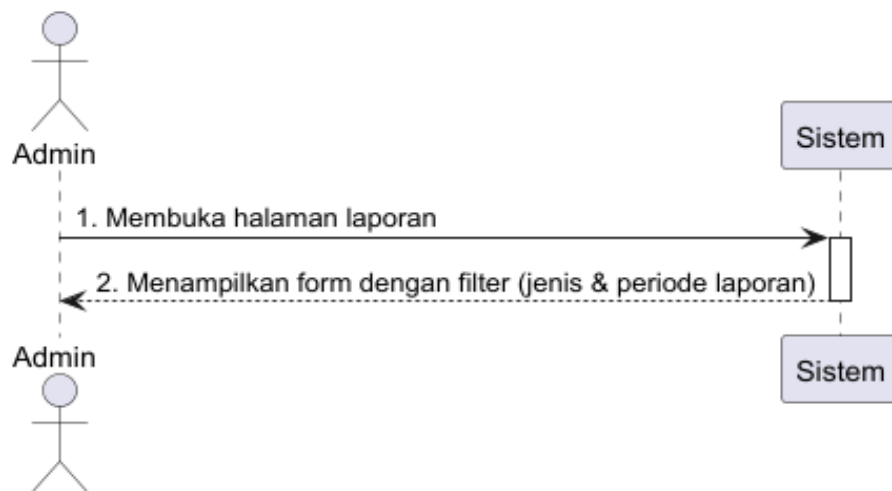


Alur Mengubah Jadwal

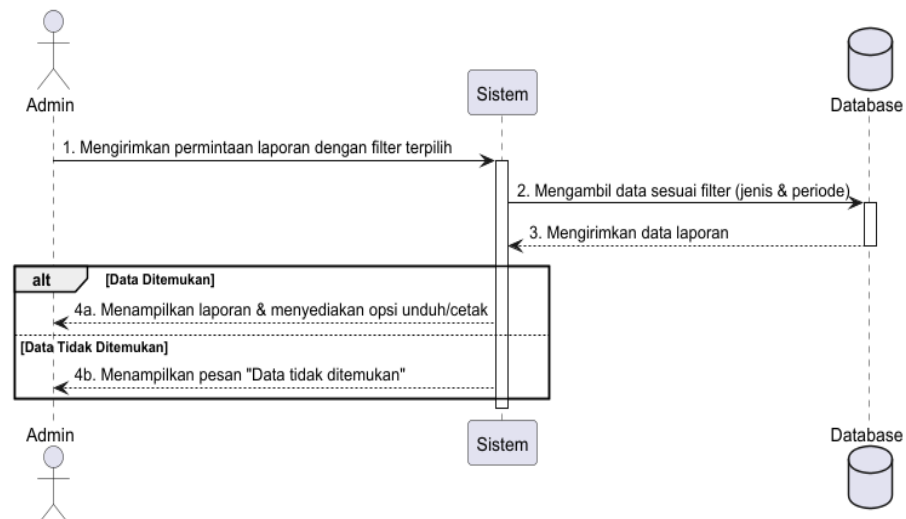


I.9.A.3 Kelola Laporan

Alur Memilih Kriteria Laporan

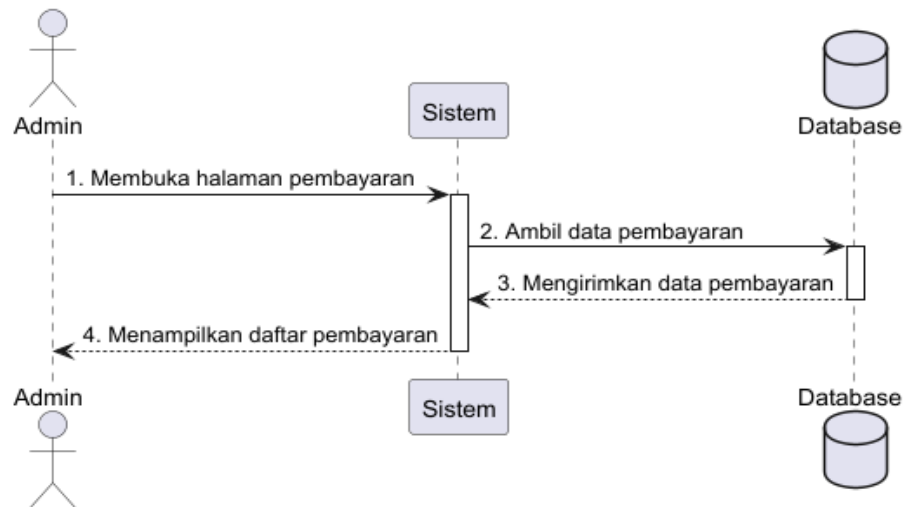


Alur Menghasilkan Laporan

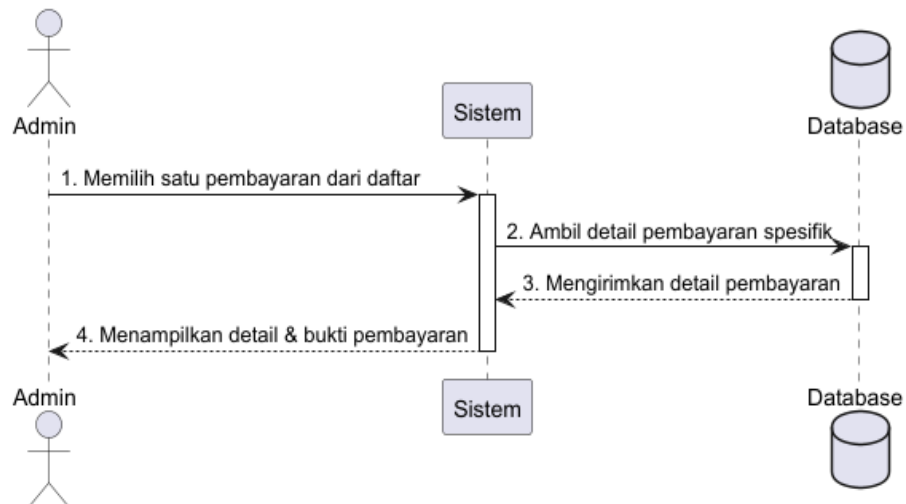


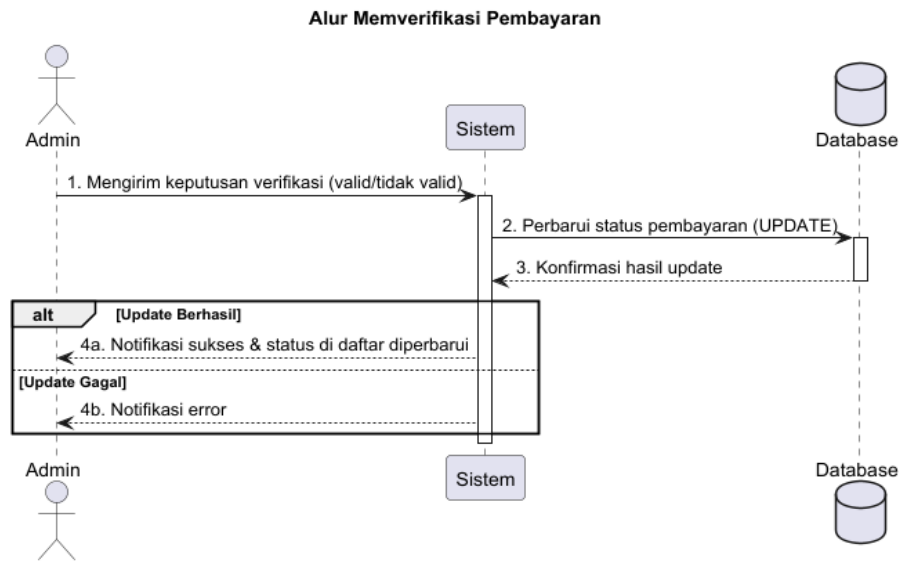
I.9.A.4 Kelola Pembayaran

Alur Melihat Daftar Pembayaran

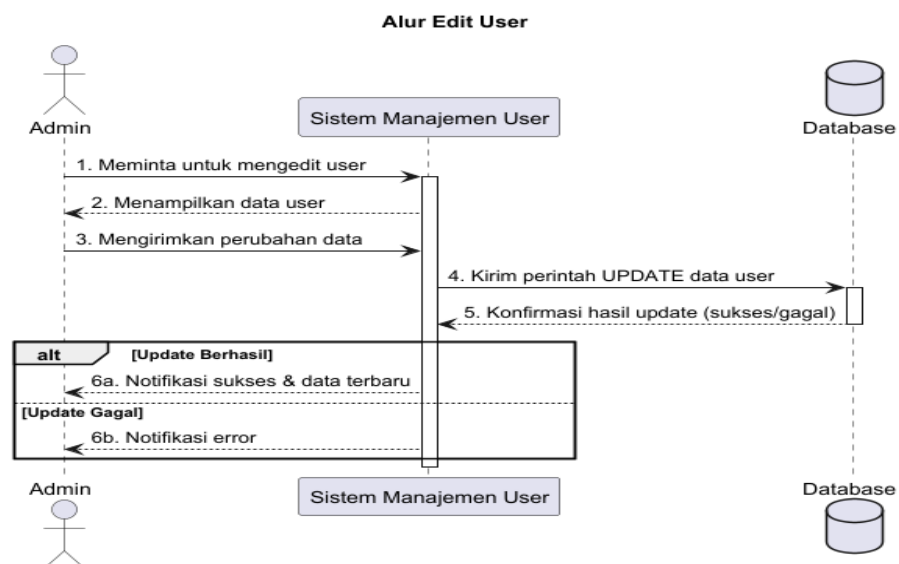


Alur Melihat Detail Pembayaran

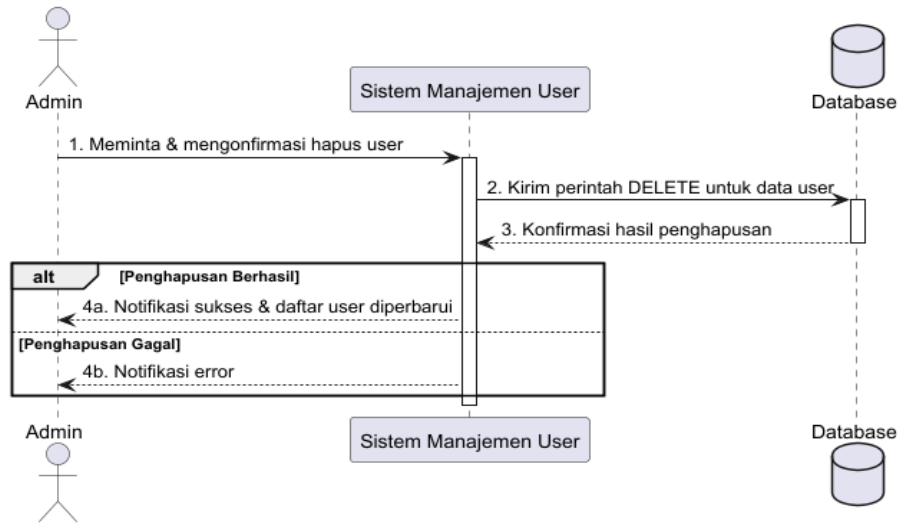




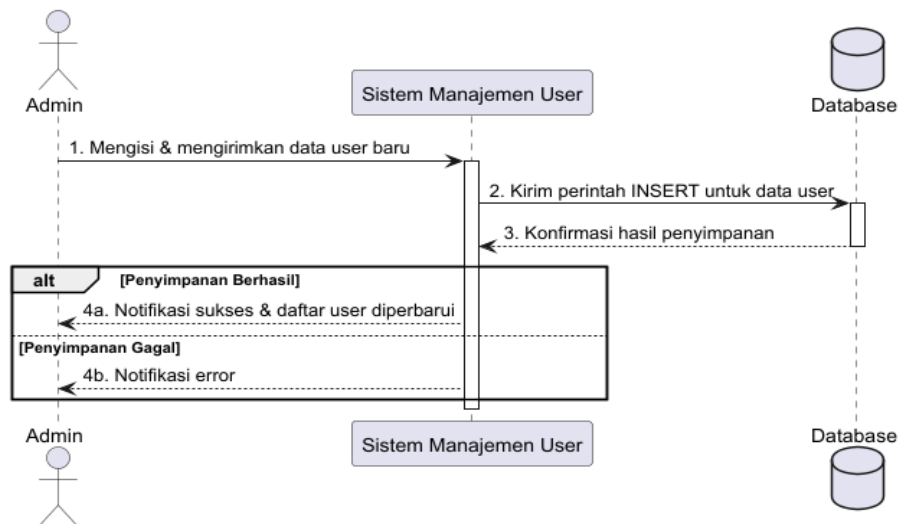
I.9.A.5 Kelola Data User



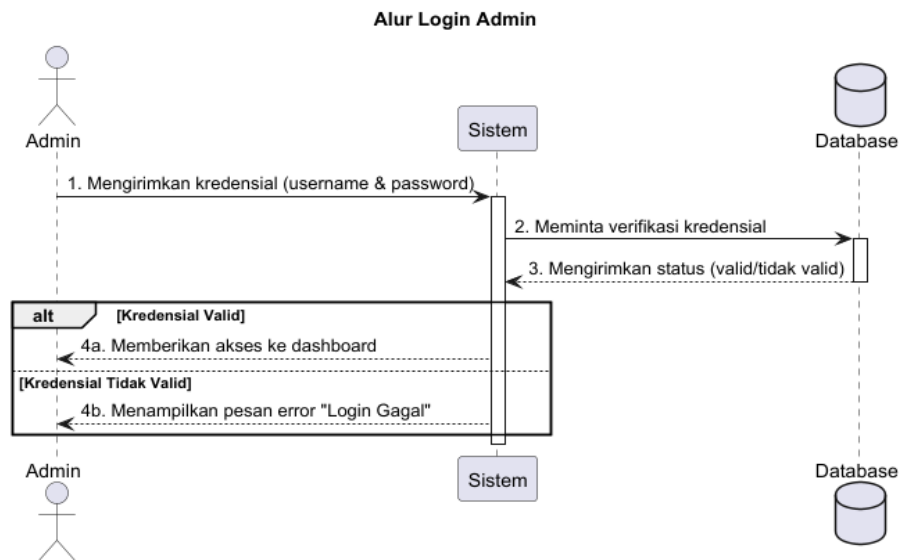
Alur Hapus User



Alur Tambah User

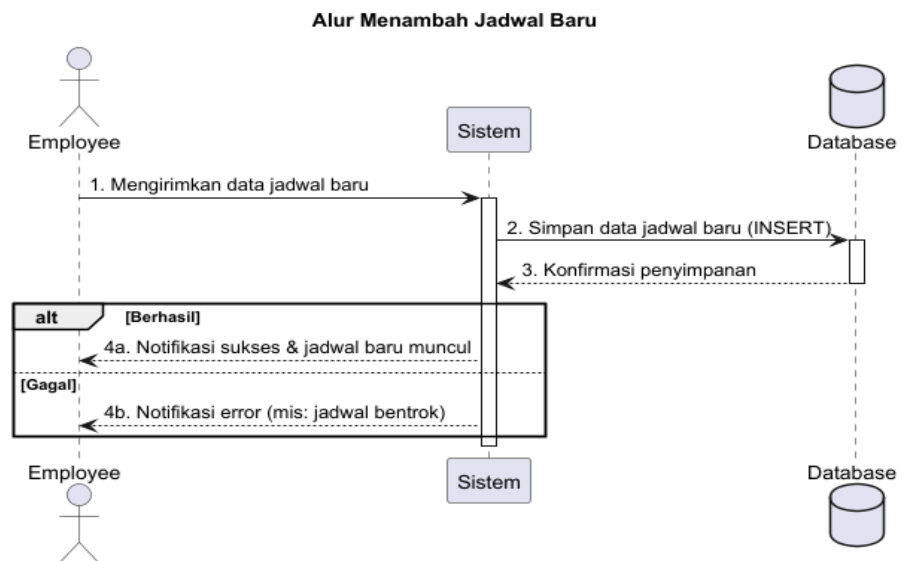


I.9.A.6 Login

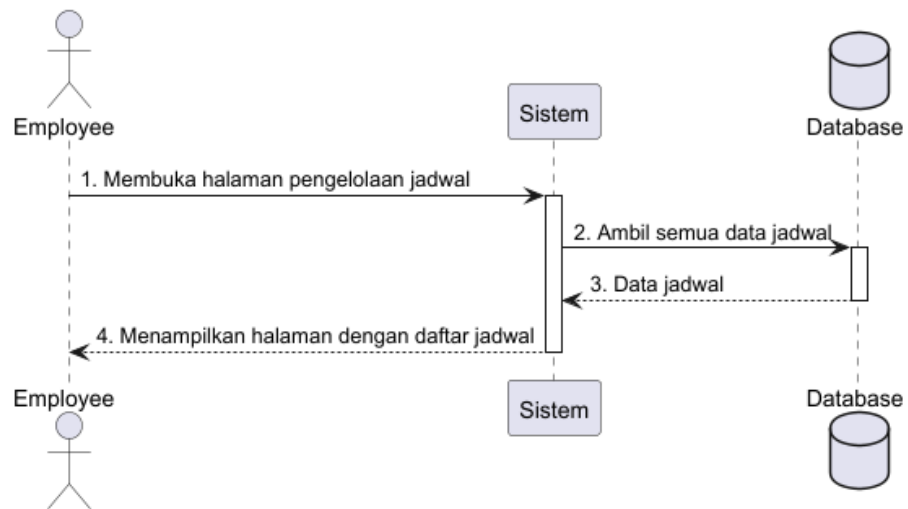


I.9.B. Employee

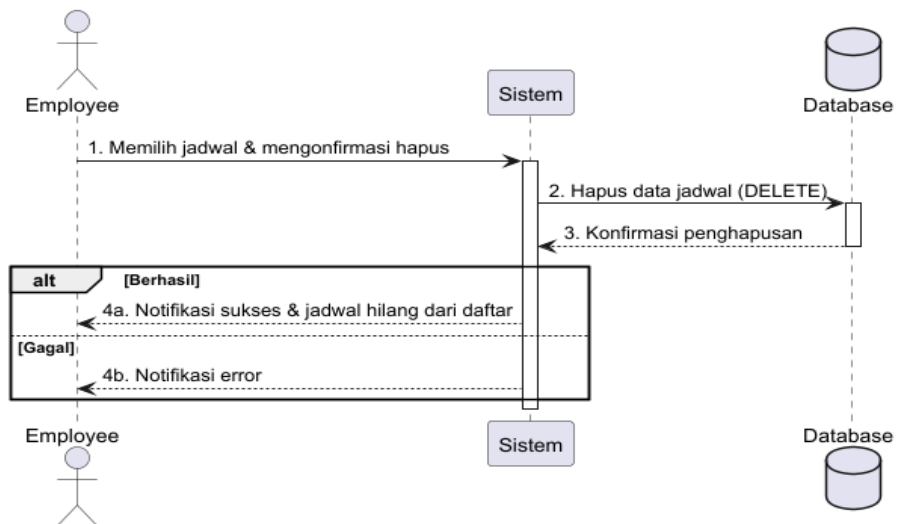
I.9.B.1 Kelola Jadwal



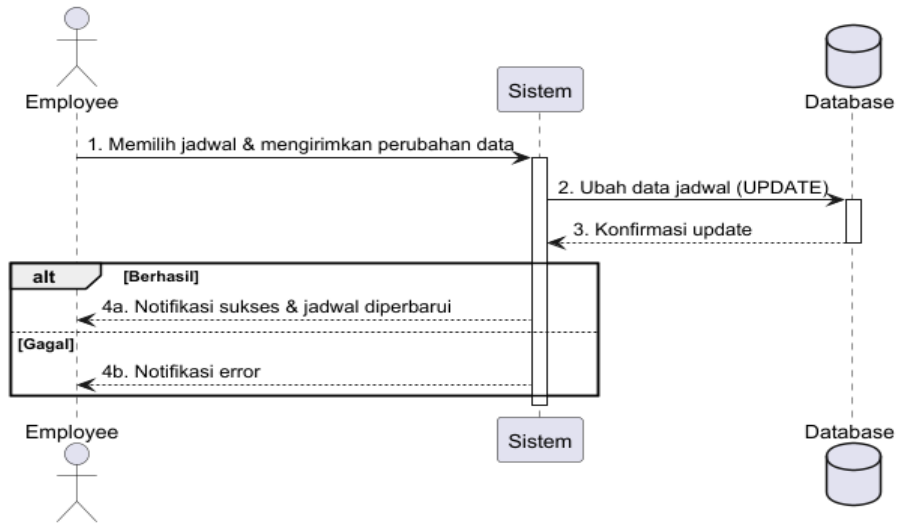
Alur Menampilkan Daftar Jadwal



Alur Menghapus Jadwal

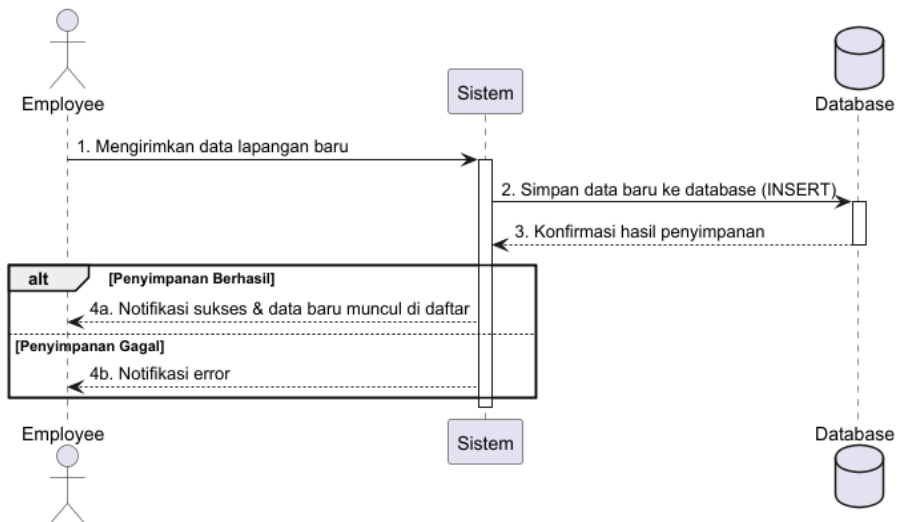


Alur Mengubah Jadwal

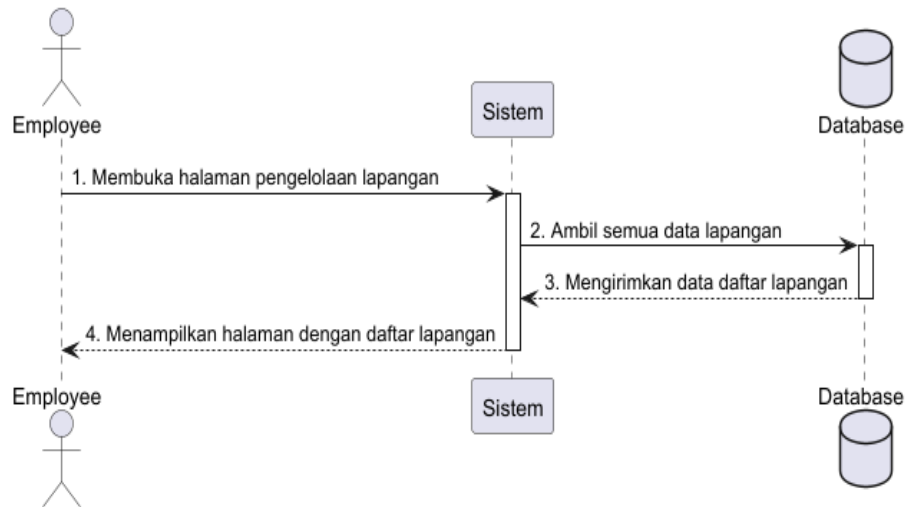


I.9.B.2 Kelola Lapangan

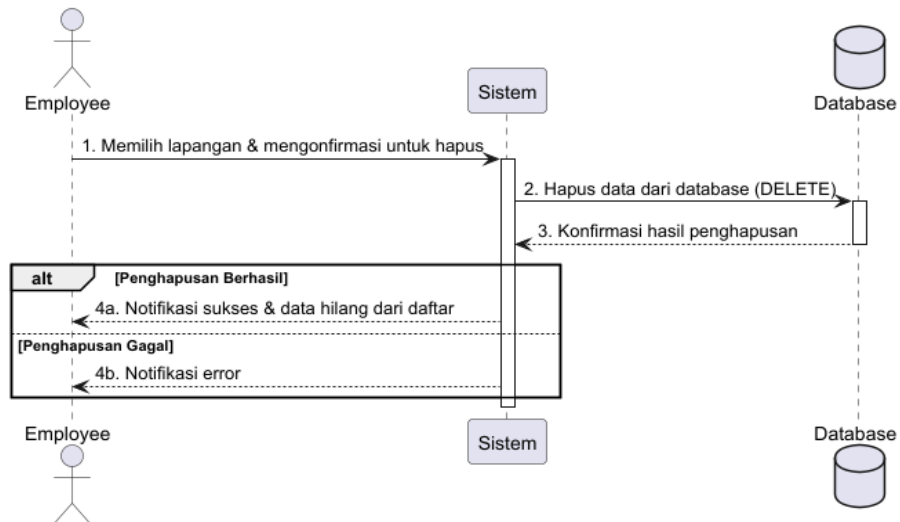
Alur Menambah Data Lapangan (Create)



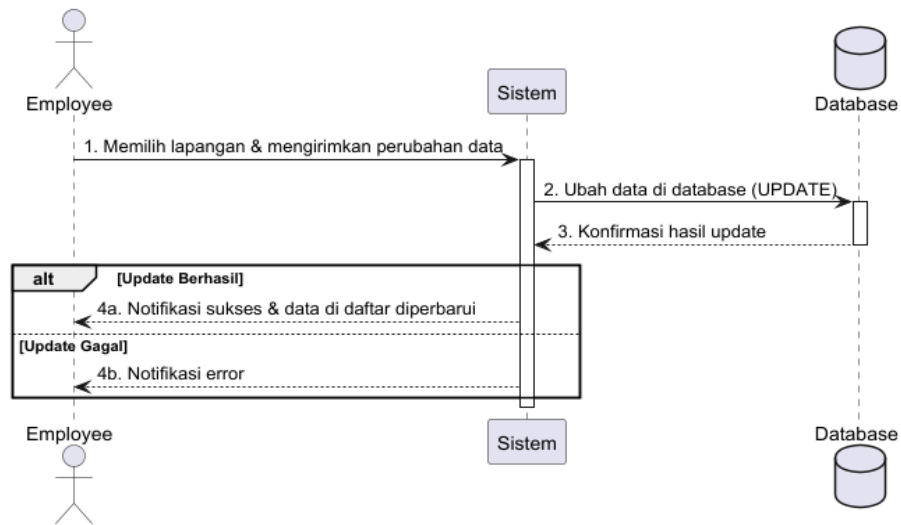
Alur Menampilkan Daftar Lapangan



Alur Menghapus Data Lapangan (Delete)

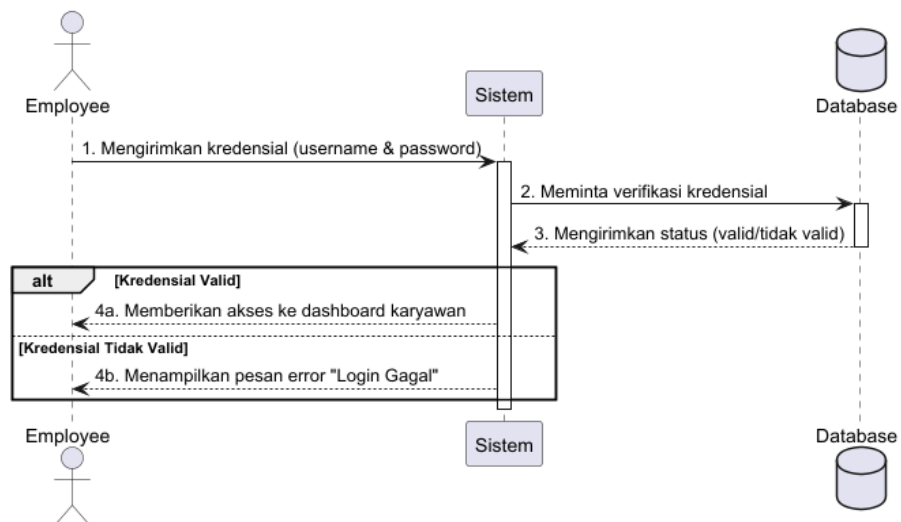


Alur Mengubah Data Lapangan (Update)



I.9.B.3 Login

Alur Login Karyawan



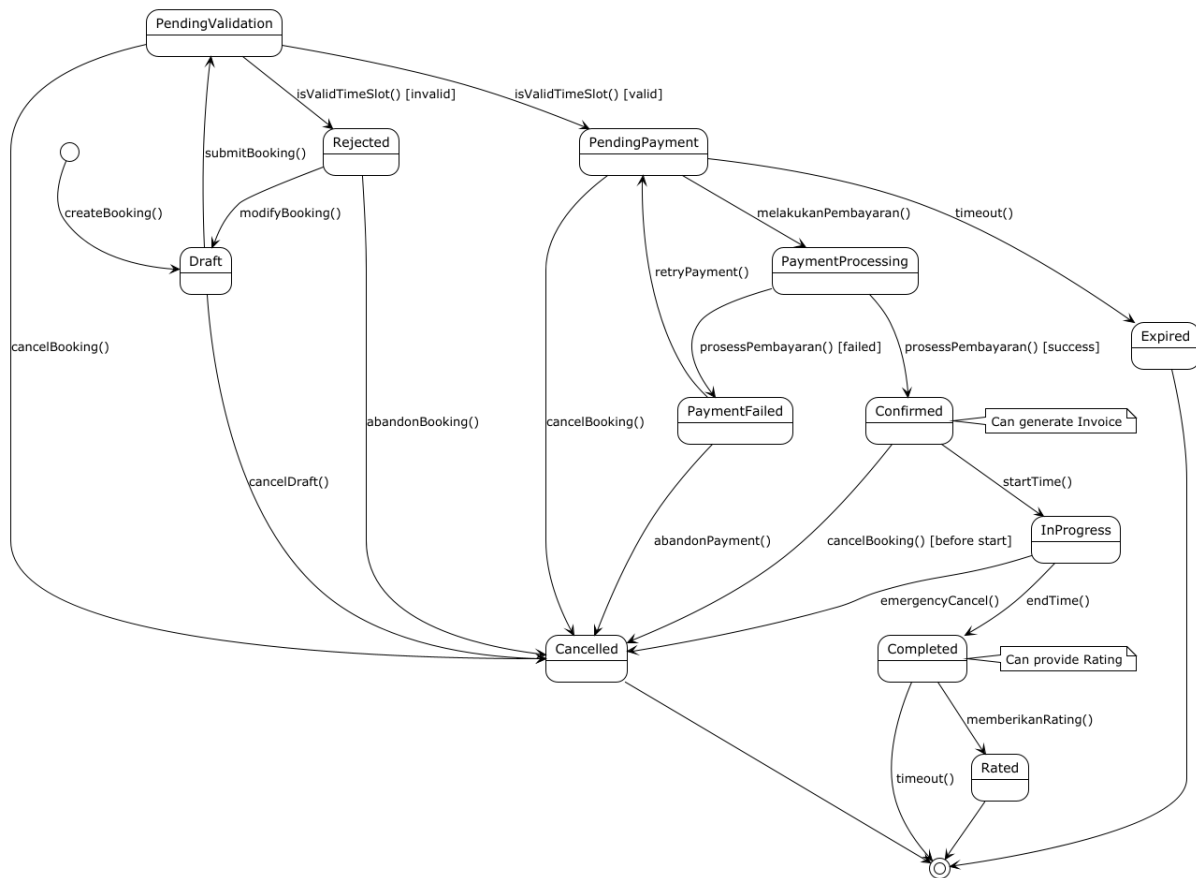
I.9.C. Manager

I.9.D. Member

I.9.E. Tamu

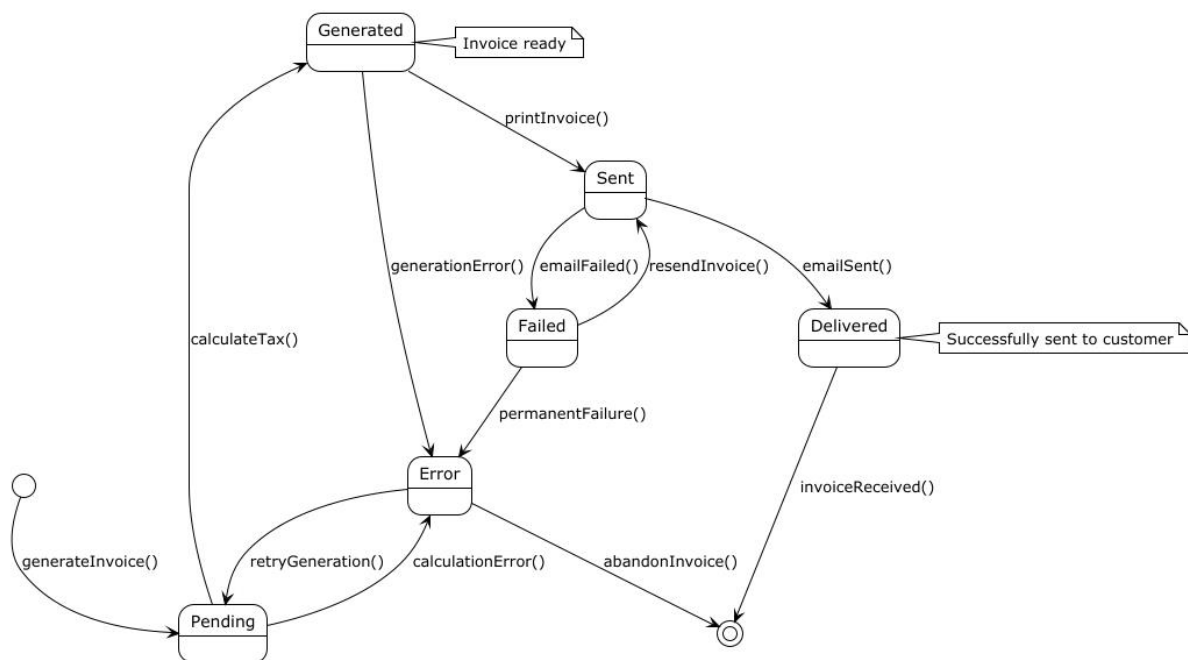
I.10 State Diagram

State Diagram - Booking Lifecycle



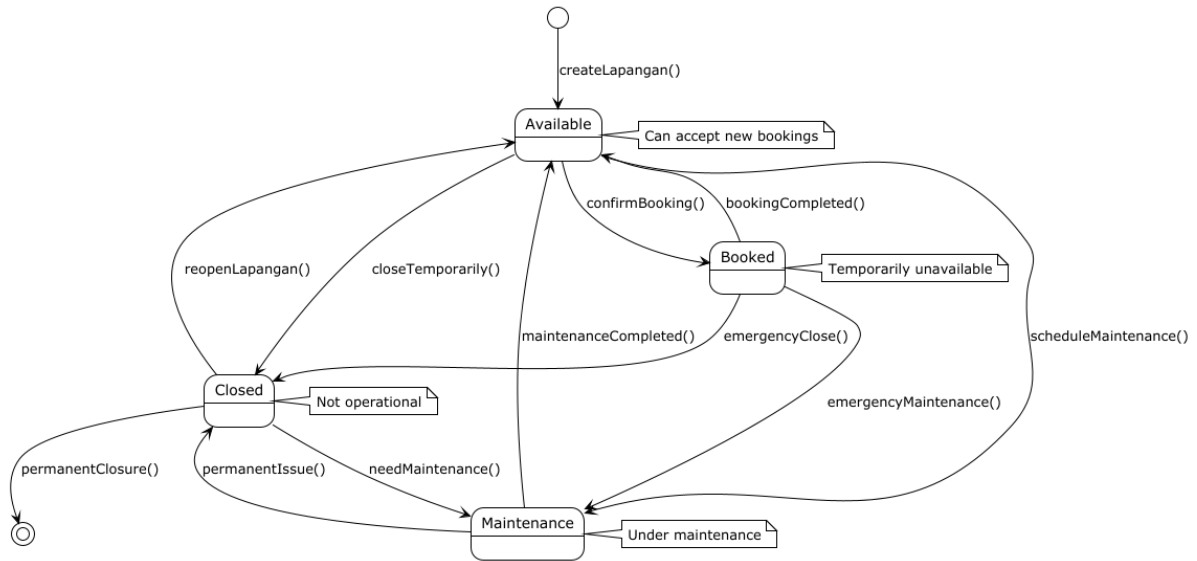
Gambar 1. 14 booking lifecycle

State Diagram - Invoice Generation



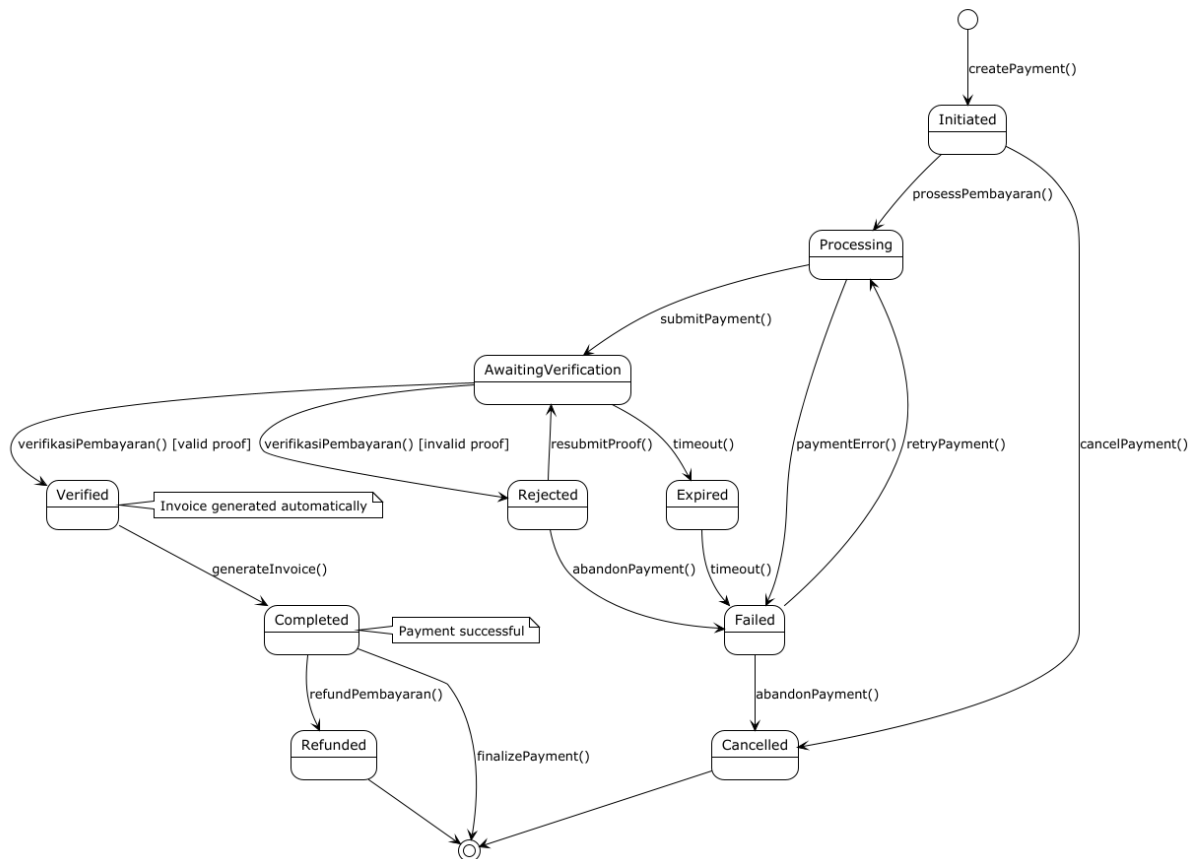
Gambar 1. 15 Invoice generation

State Diagram - Lapangan Status



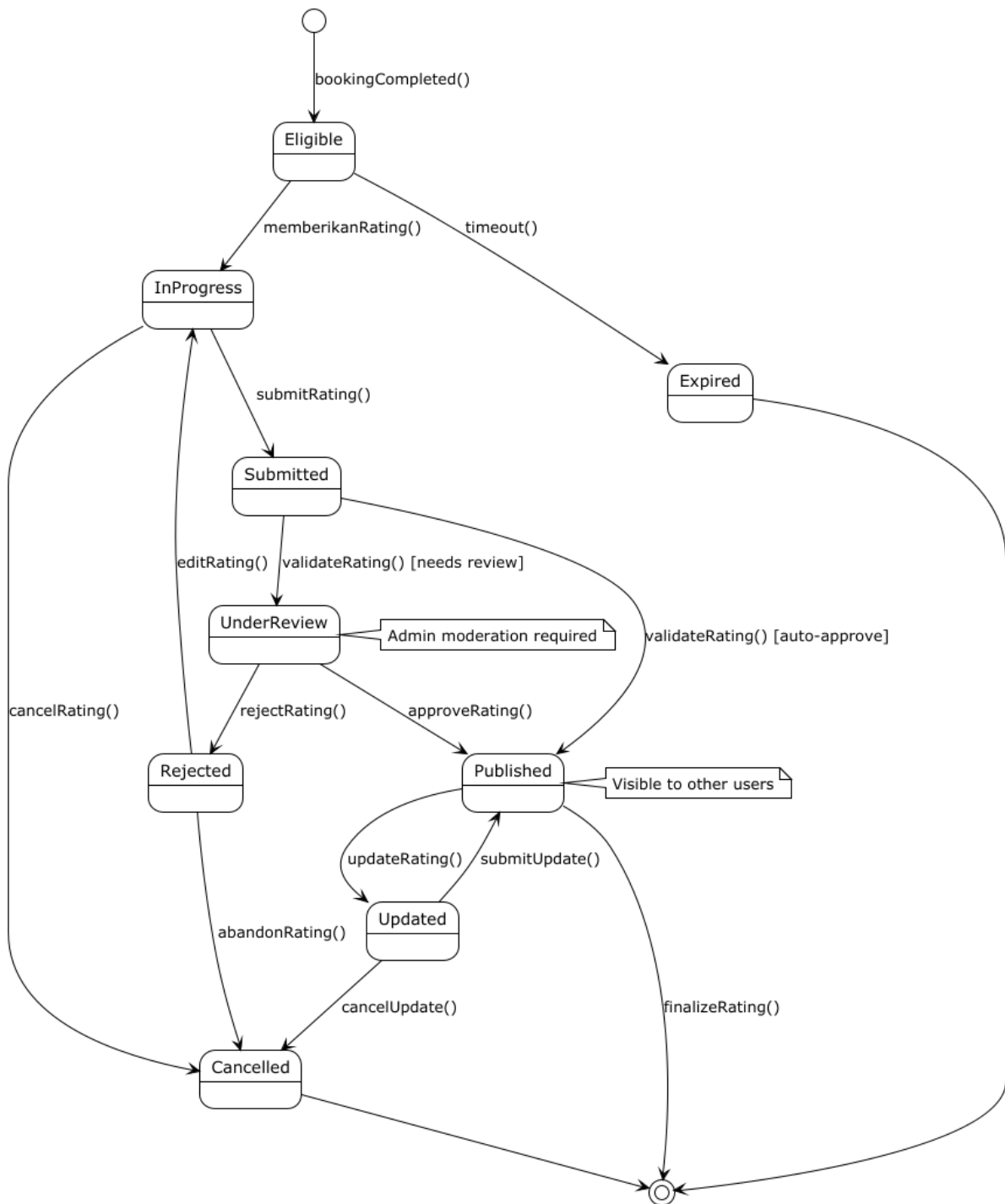
Gambar 1. 16 lapangan status

State Diagram - Payment Processing



Gambar 1. 17 payment processing

State Diagram - Rating System



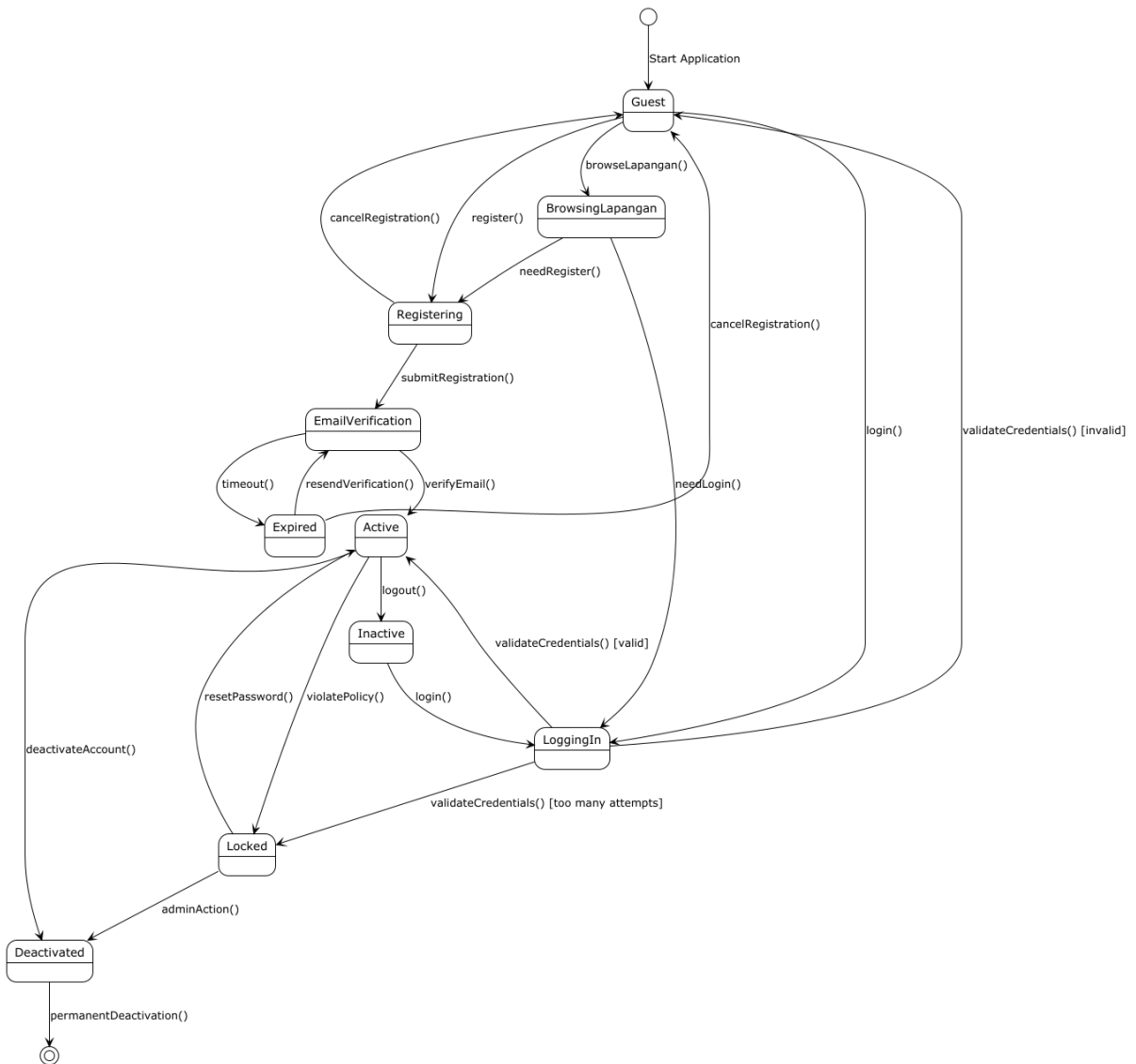
Gambar 1. 18 rating system

State Diagram - Session Management



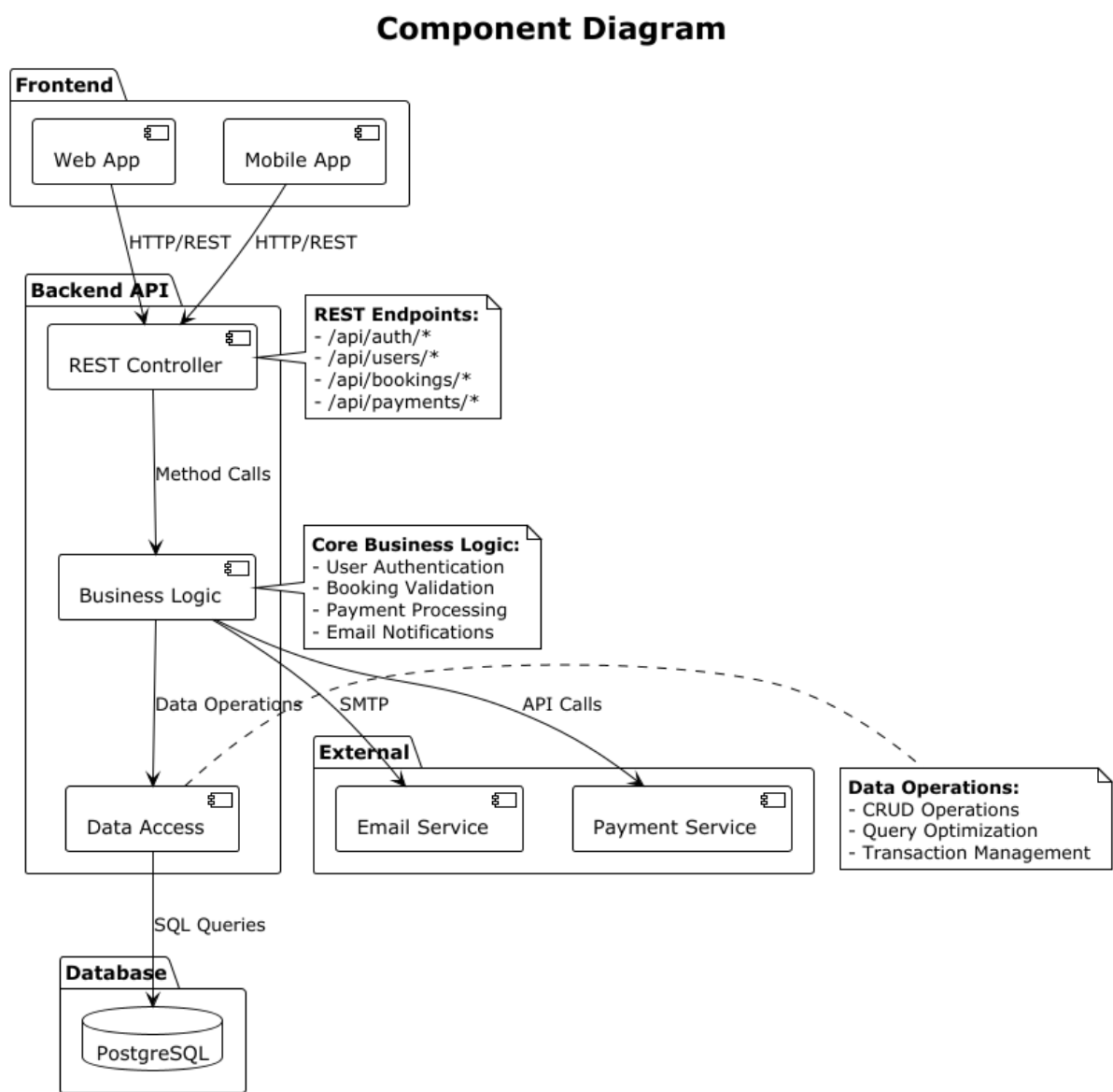
Gambar 1. 19 session management

State Diagram - User Authentication



Gambar 1. 20 user auth

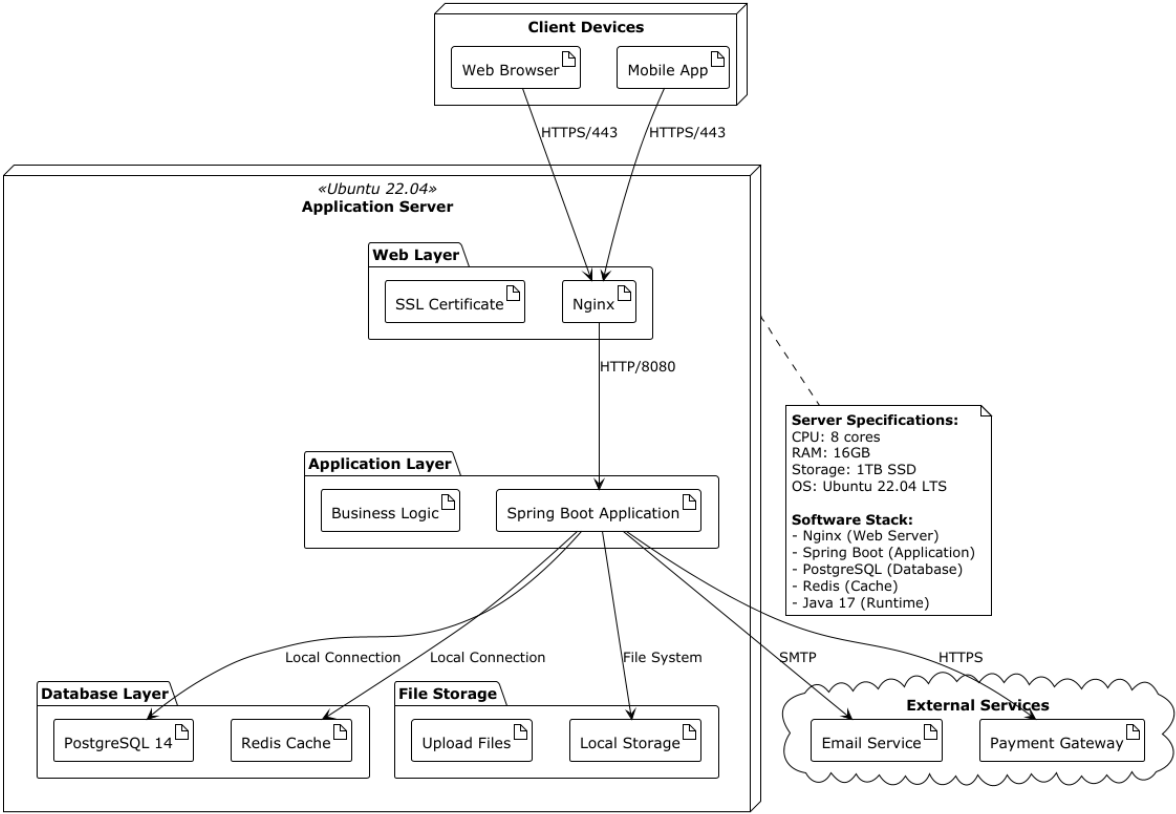
I.11 Component Diagram



Gambar 1. 21 component diagram

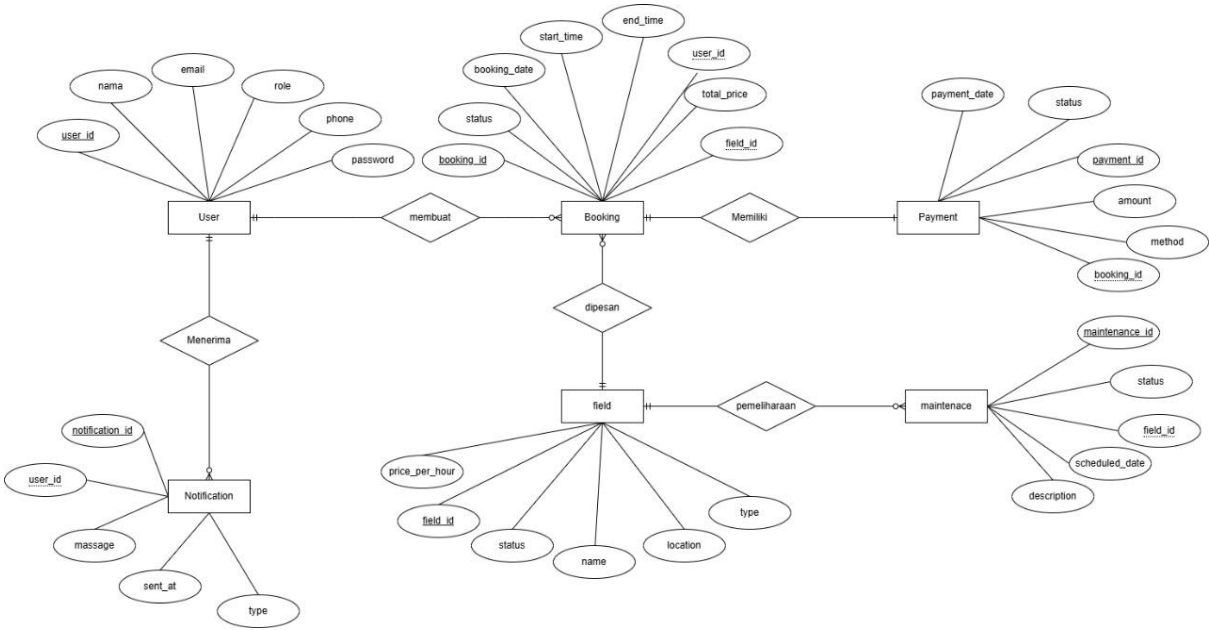
I.12 Deployment Diagram

Deployment Diagram - Sistem Booking Lapangan Olahraga



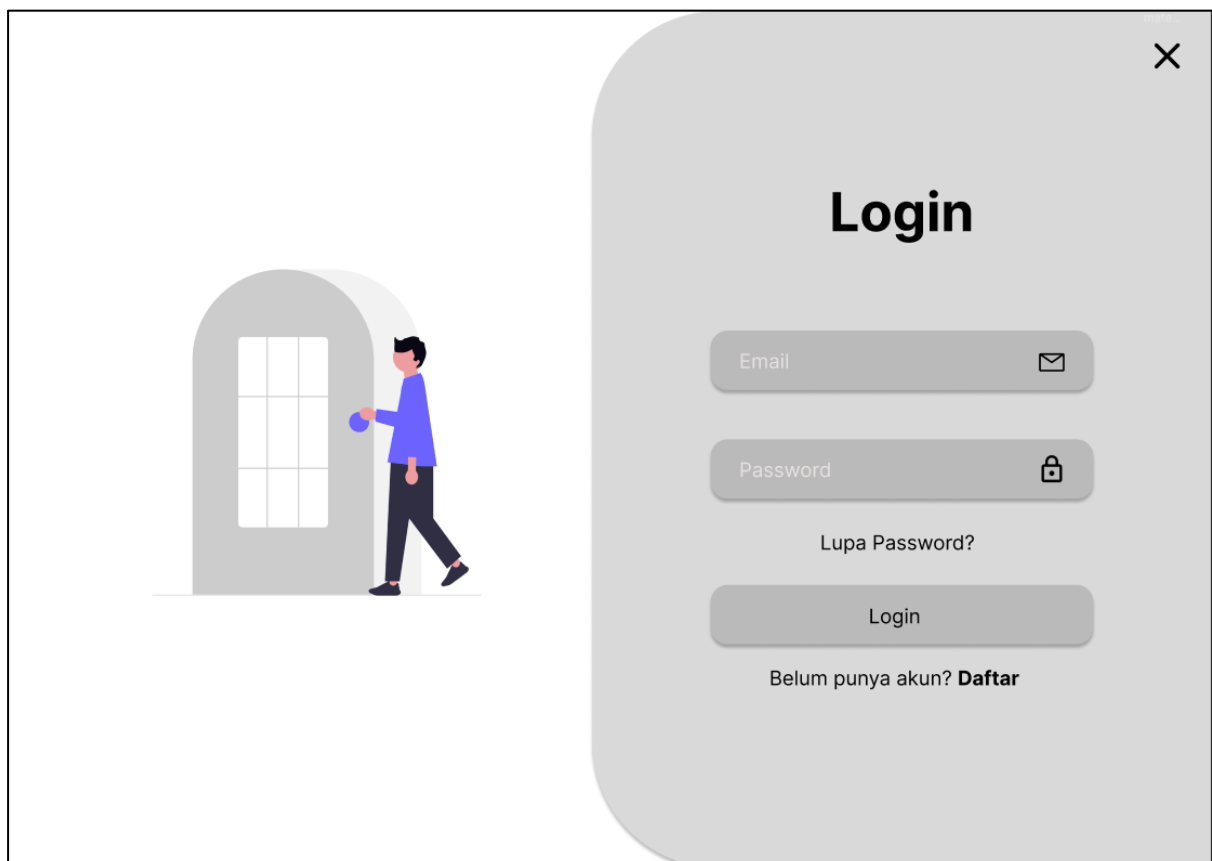
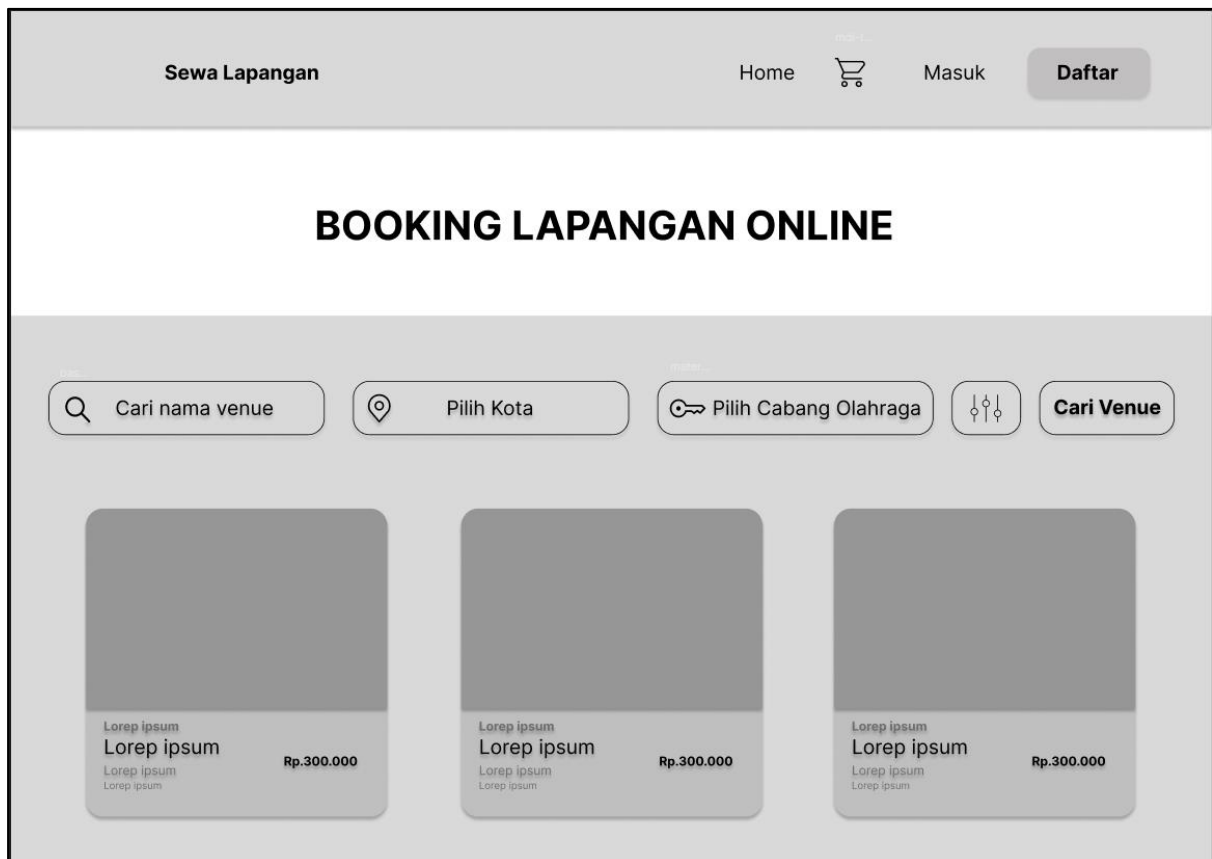
Gambar 1. 22 deployment diagram

I.13 Entity Relationship Diagram



Gambar 1. 23 ERD Lapangan Olahraga

I.14 Mockup Up





Registrasi



Register

Sudah punya akun? [Login](#)



← BOOKING LAPANGAN ONLINE

Nama Pemesan

No Telp

Nama Lapangan

Rating Lapangan | Lokasi

Senin, 1 Juni 2025 - 08.00 - 09.00
Rp.50.000



Senin, 1 Juni 2025 - 09.00 - 10.00
Rp.50.000



Senin, 1 Juni 2025 - 10.00 - 11.00
Rp.50.000



← Tambah Jadwal

Rincian Biaya

Biaya Sewa Rp.150.000

Total Bayar Rp.150.000

Lanjutkan Pembayaran

Sewa Lapangan

Home

Masuk

Daftar

Nama Lapangan

Rating Lapangan

Lokasi

Lokasi Venue

Jl. Lirisan Ipiwah

Buka Peta

Mulai dari

Rp 50,000 / Jam

Cek Ketersediaan

Pilih Jadwal

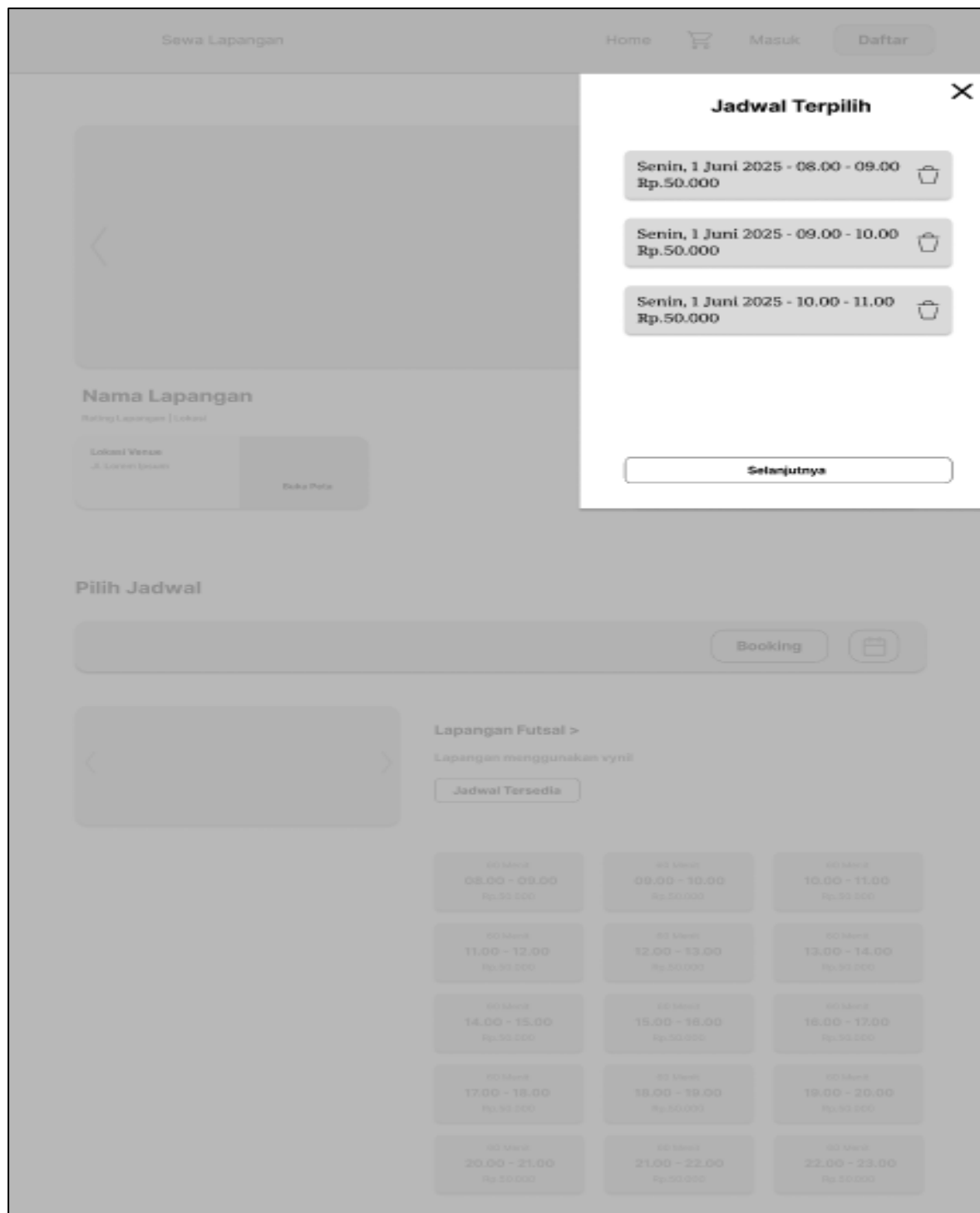
Booking

Lapangan Futsal >

Lapangan menggunakan vinyl

Jadwal Tersedia

<div>60 Menit</div> <div>08.00 - 09.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>09.00 - 10.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>10.00 - 11.00</div> <div>Rp.50.000</div>
<div>60 Menit</div> <div>11.00 - 12.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>12.00 - 13.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>13.00 - 14.00</div> <div>Rp.50.000</div>
<div>60 Menit</div> <div>14.00 - 15.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>15.00 - 16.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>16.00 - 17.00</div> <div>Rp.50.000</div>
<div>60 Menit</div> <div>17.00 - 18.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>18.00 - 19.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>19.00 - 20.00</div> <div>Rp.50.000</div>
<div>60 Menit</div> <div>20.00 - 21.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>21.00 - 22.00</div> <div>Rp.50.000</div>	<div>60 Menit</div> <div>22.00 - 23.00</div> <div>Rp.50.000</div>



BOOKING
LAPANGAN
ONLINE

Home

Contact

Home

Transaksi

Laporan

Settings

Data Booking Lapangan

Tambah Data

Show 7 entries

No	Kode Booking	Nama Lapangan	Tanggal	Customer	No Telp	Durasi	Total	Status	Action
1	21313	Lapangan Basket	01-06-2025	Unjani FC	0899999	180	150.000	Reserved	<div></div> <div></div>