

kelompok 9: Analisis dan Perancangan Aplikasi Booking Lapangan Olahraga

I.1 Anggota:

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- 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.

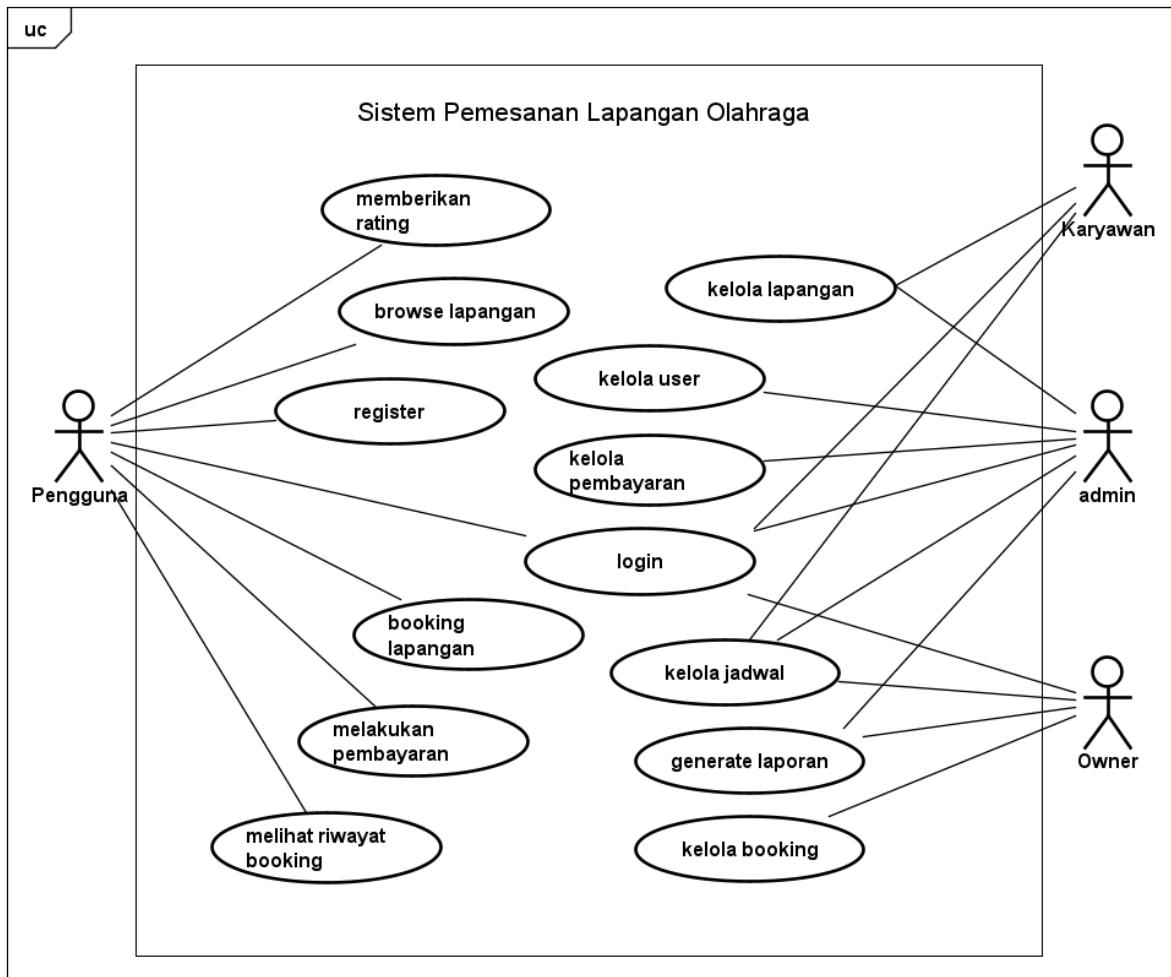
I.4 Kebutuhan Non-Fungsional:

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

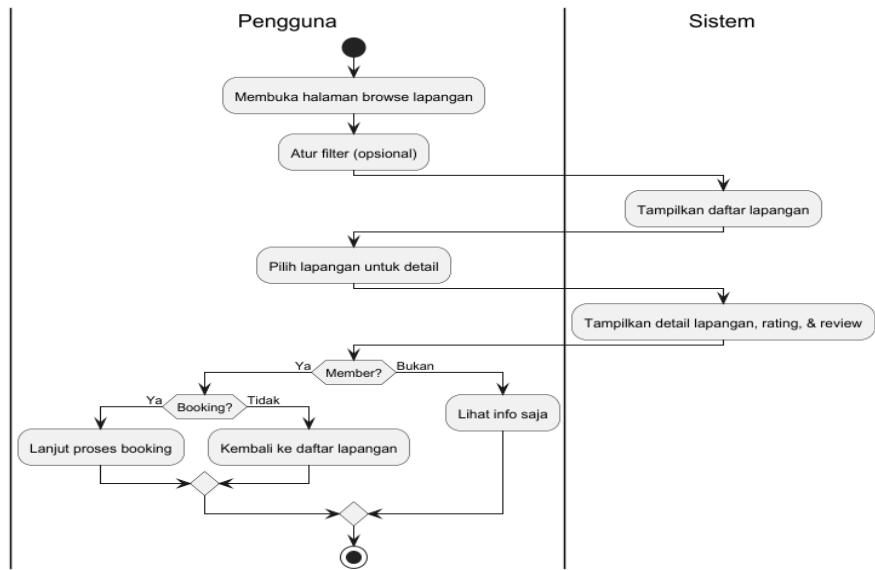
I.5 Requirement:

- 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.

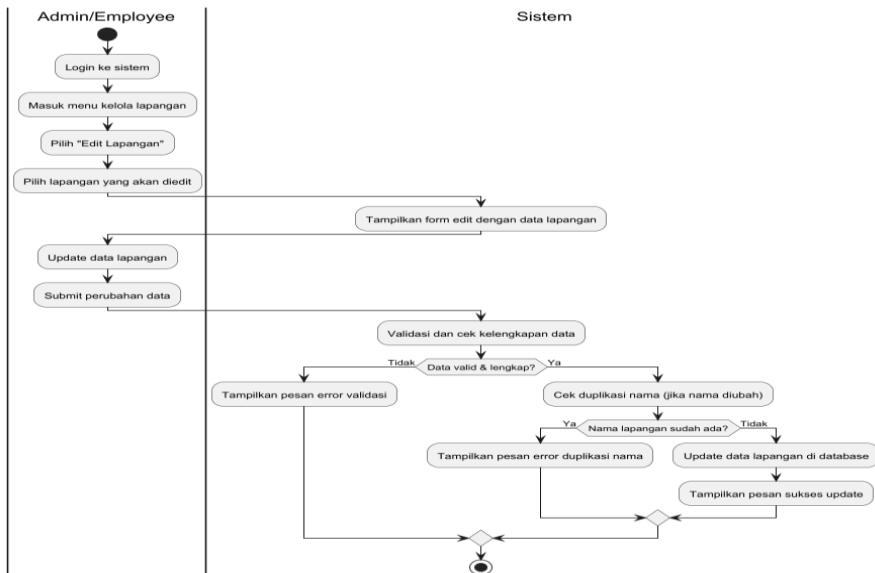
I.6 Use Case Diagram:



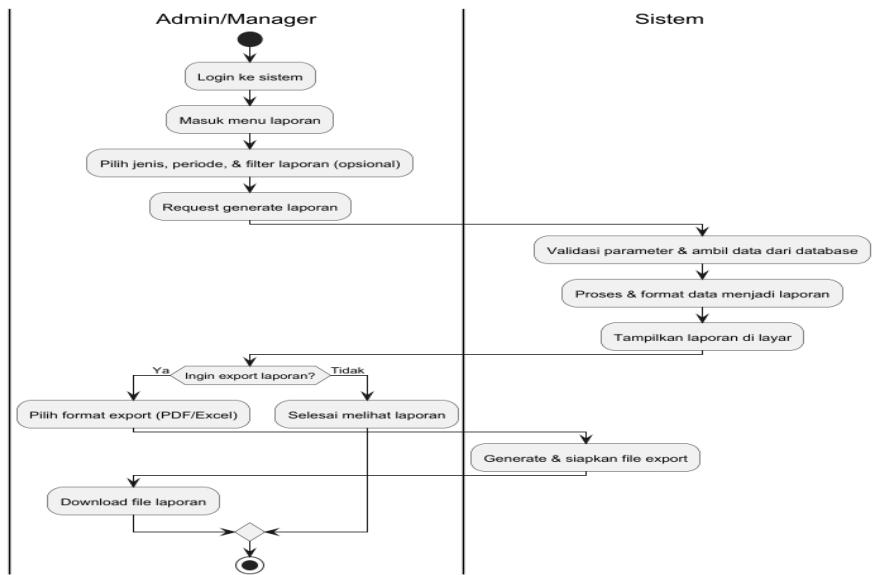
I.7 Activity Diagram



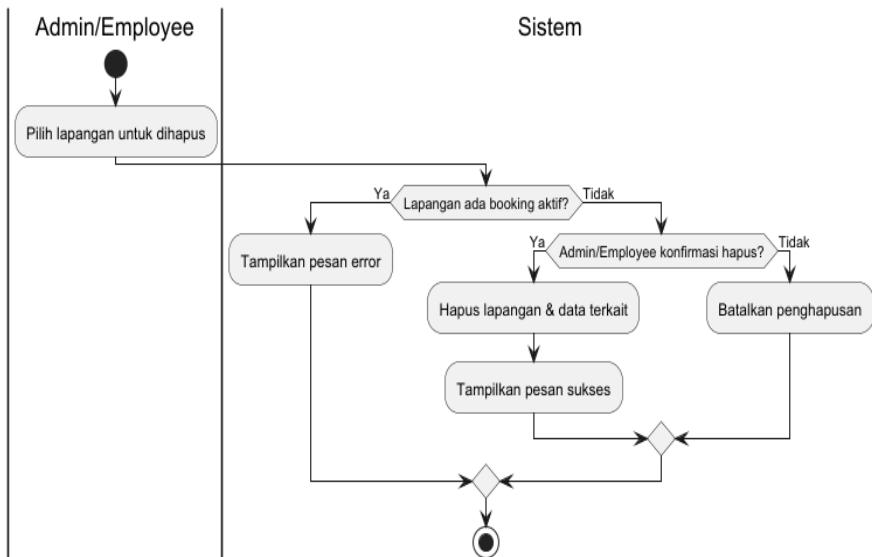
Gambar 1. 1 Browse Lapangan



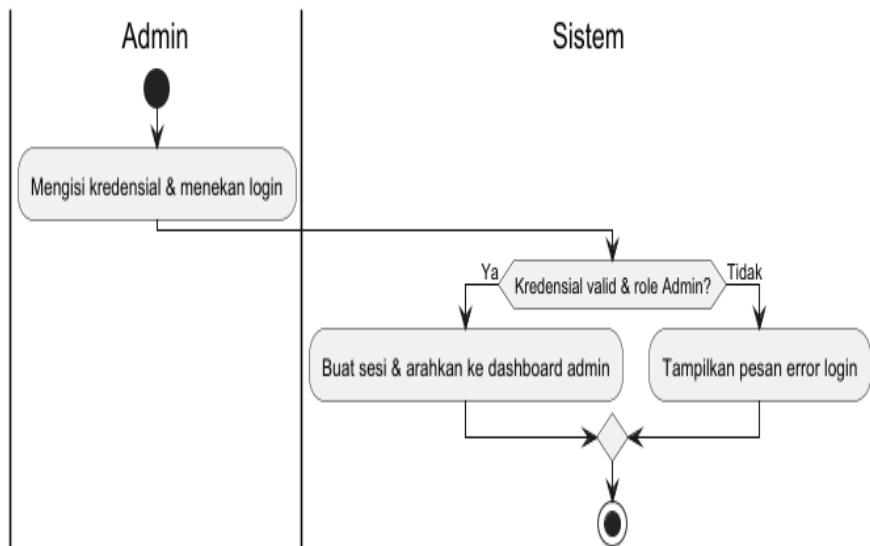
Gambar 1. 2 Edit Lapangan



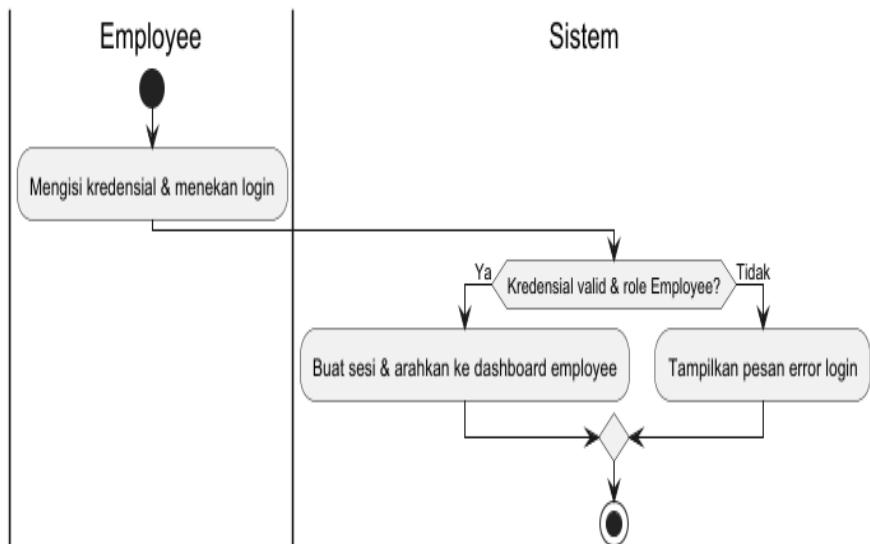
Gambar 1. 3 Generate Laporan



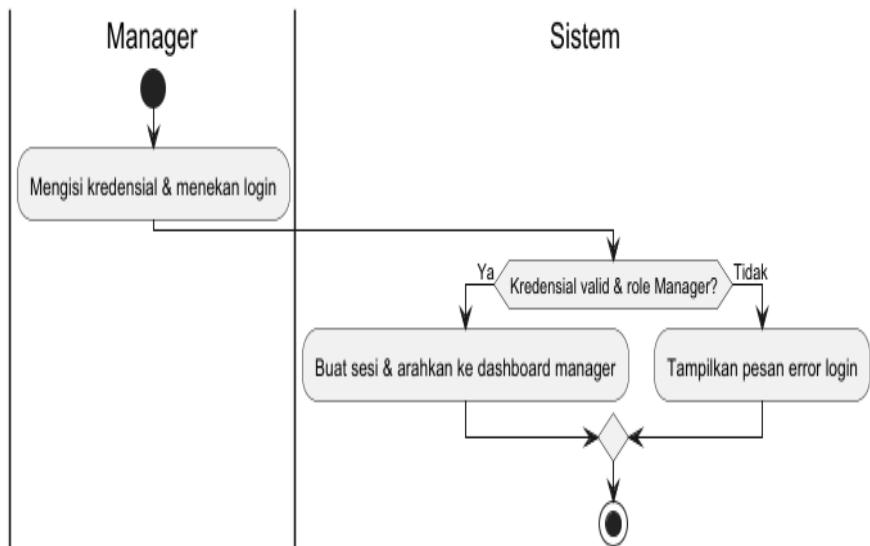
Gambar 1. 4 Hapus Lapangan



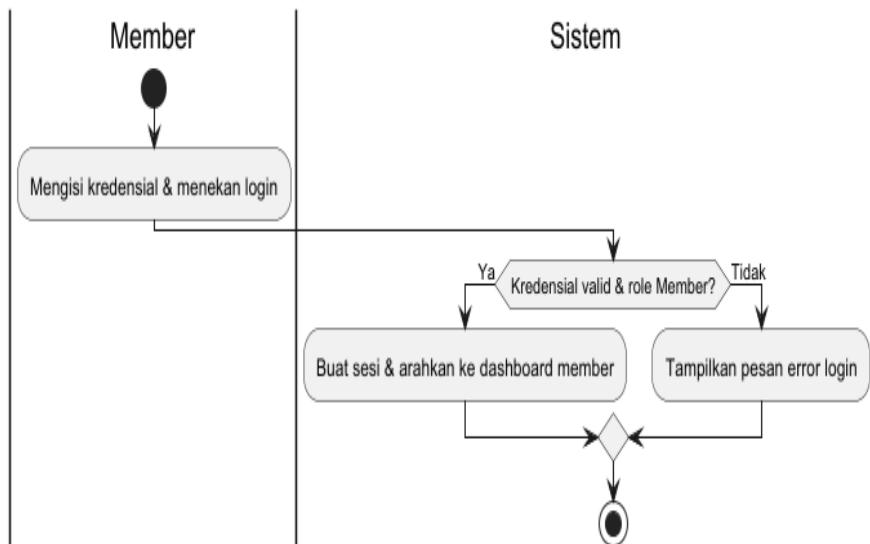
Gambar 1. 5 Login Admin



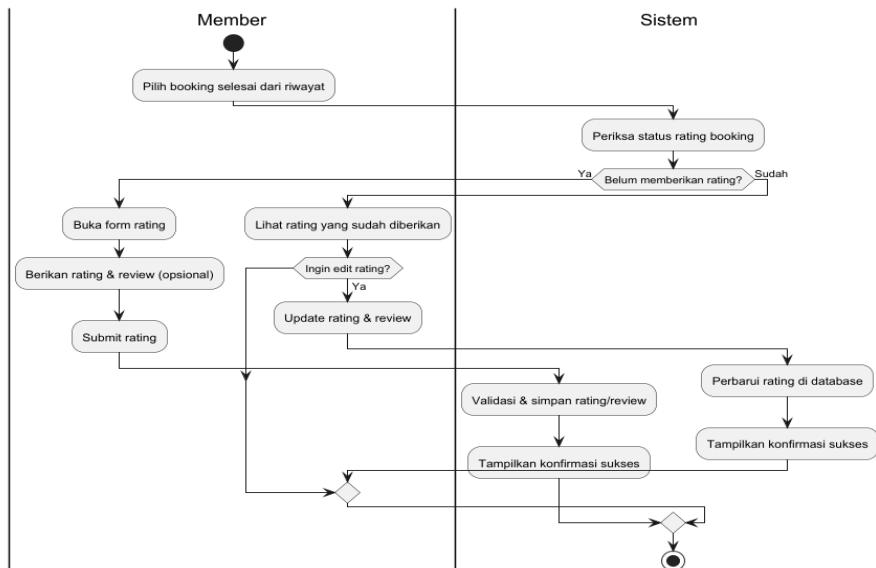
Gambar 1. 6 Login Karyawan



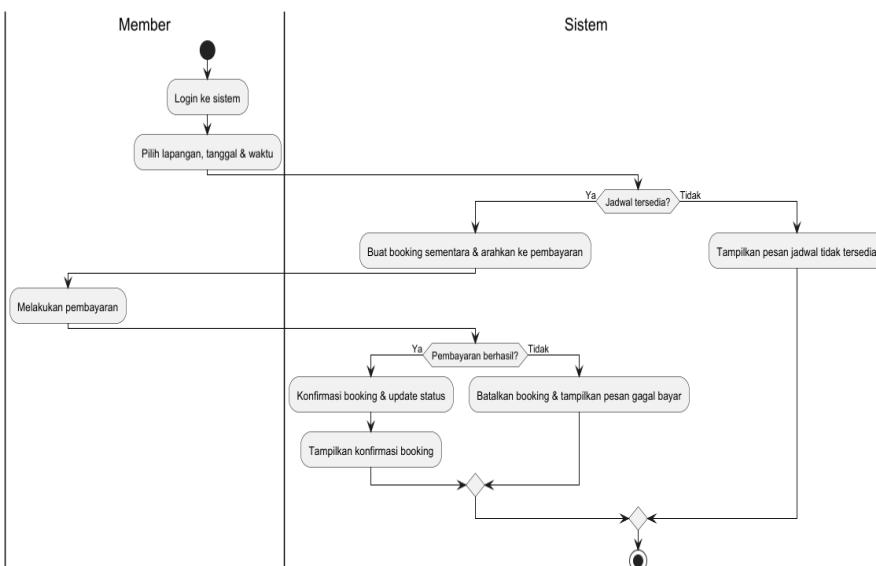
Gambar 1. 7 Login Manager



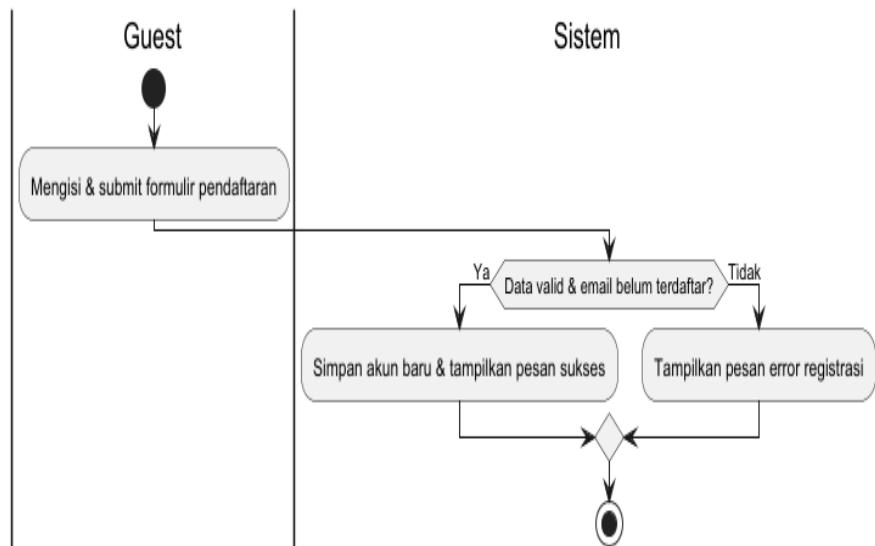
Gambar 1. 8 Login Member



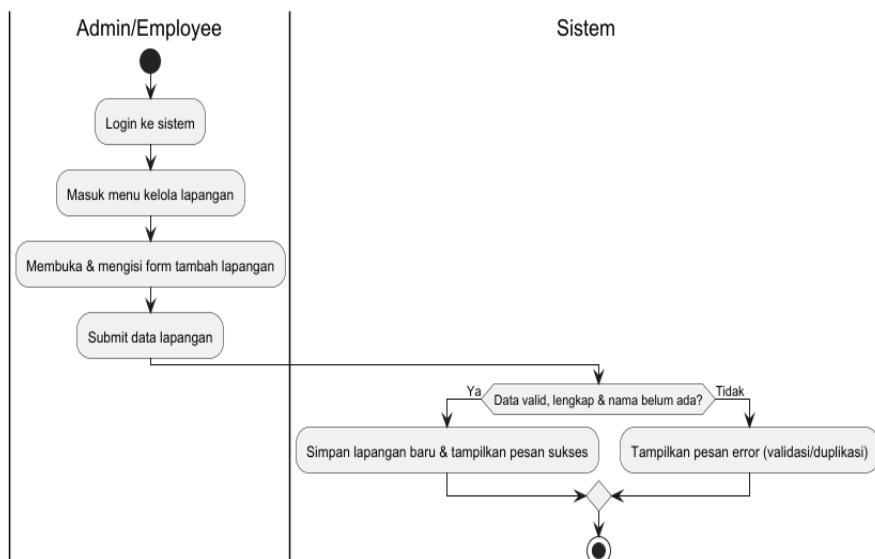
Gambar 1. 9 Memberikan rating



Gambar 1. 10 Proses Booking

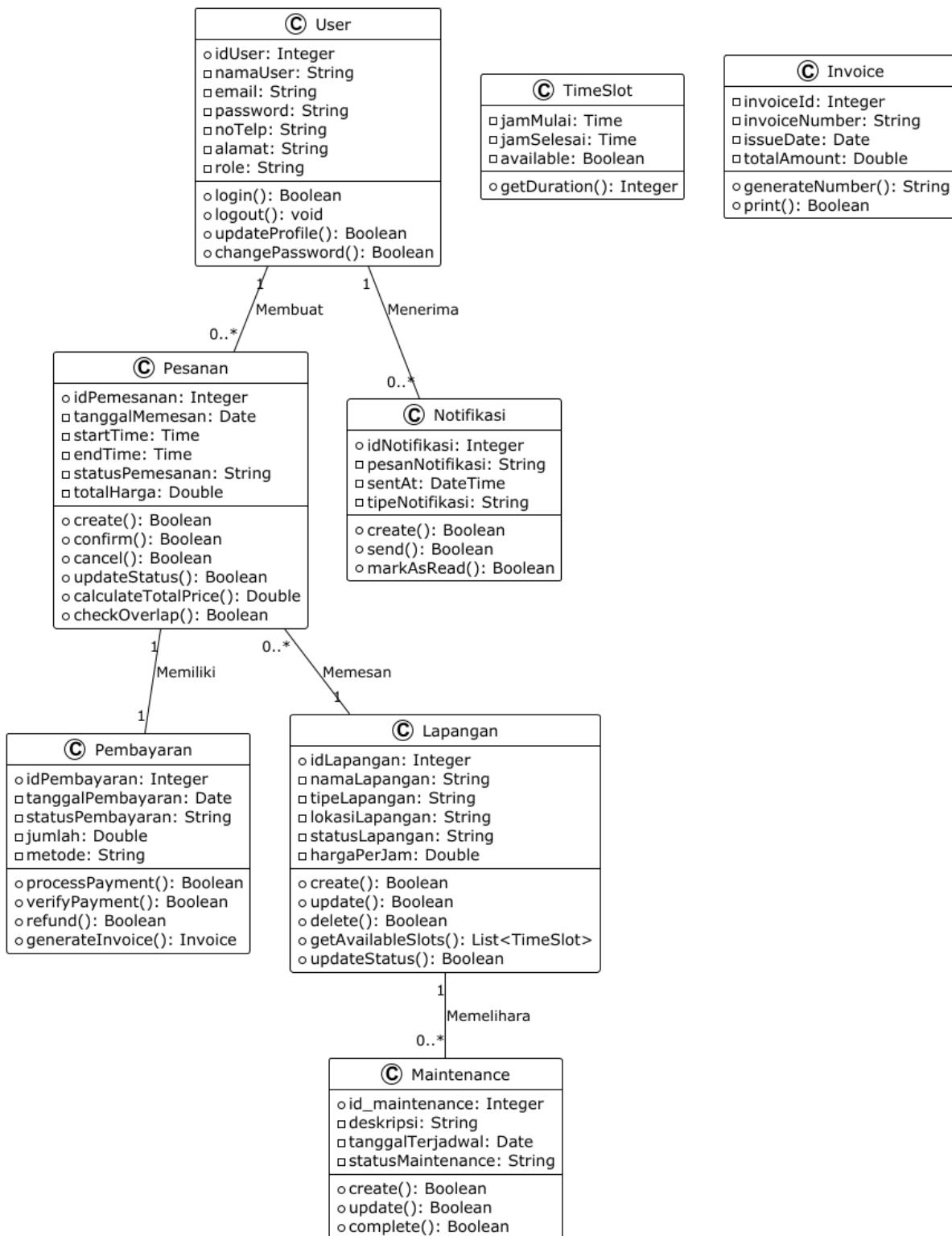


Gambar 1. 11 registrasi guest



Gambar 1. 12 Tambah Lapangan

I.8 Class Diagram

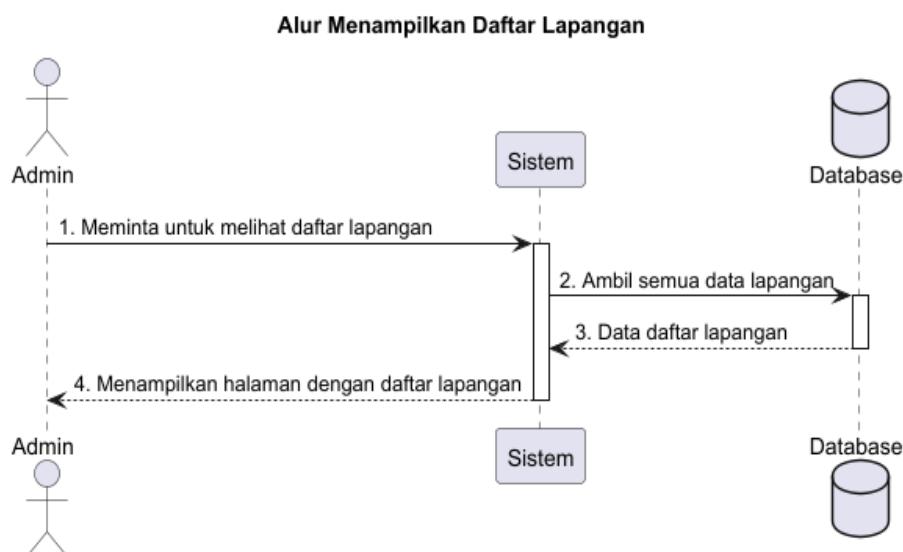
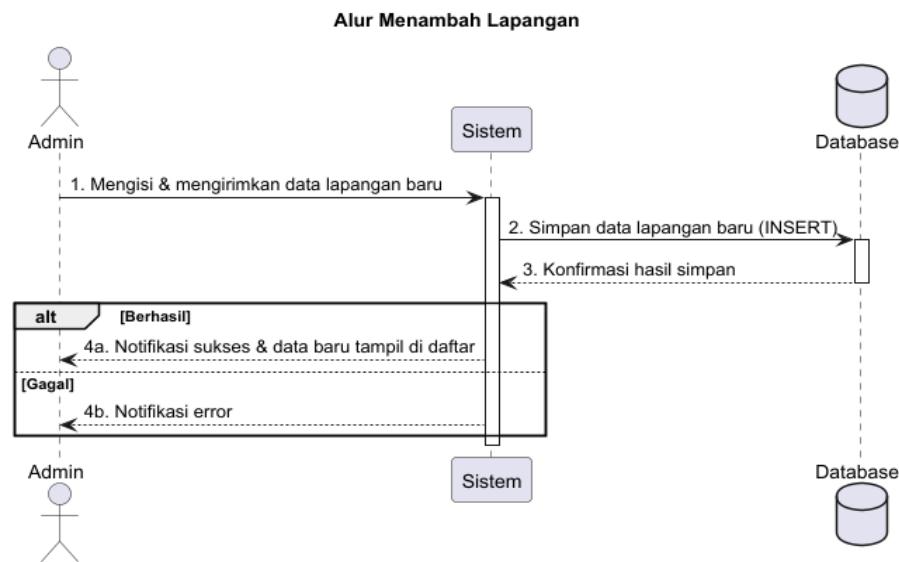


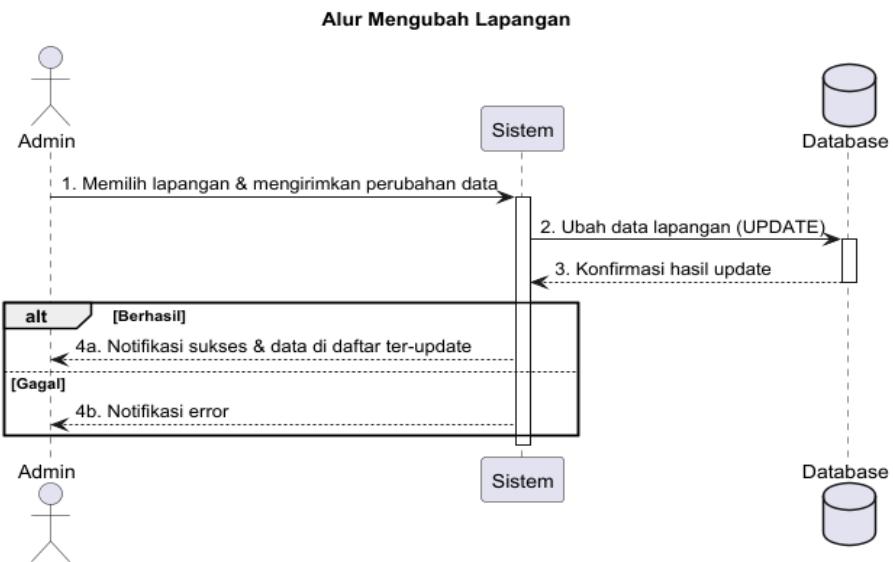
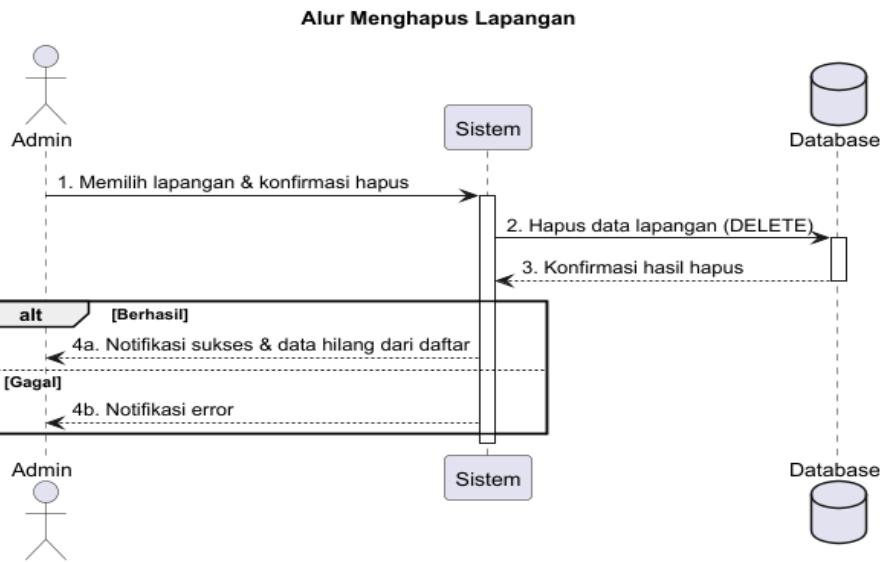
Gambar 1. 13 Class Diagram

I.9 Sequence Diagram

I.9.A. Admin

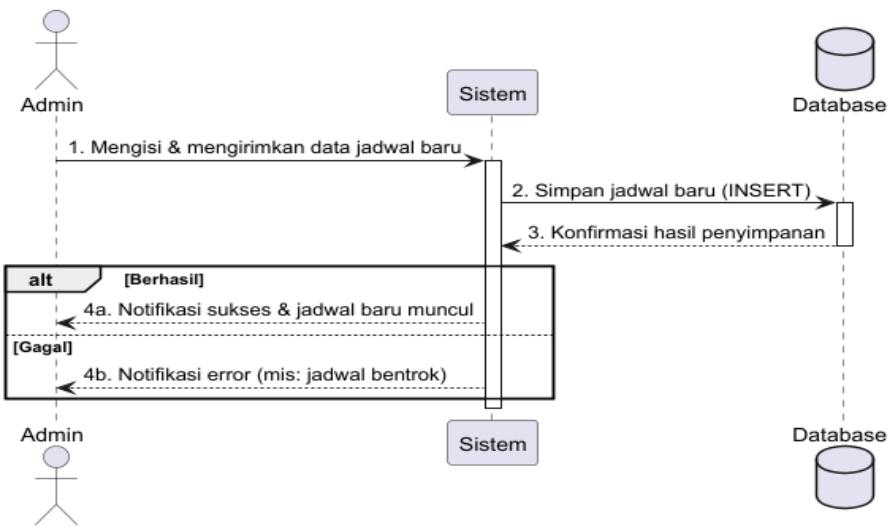
I.9.A.1 Kelola Data Lapangan



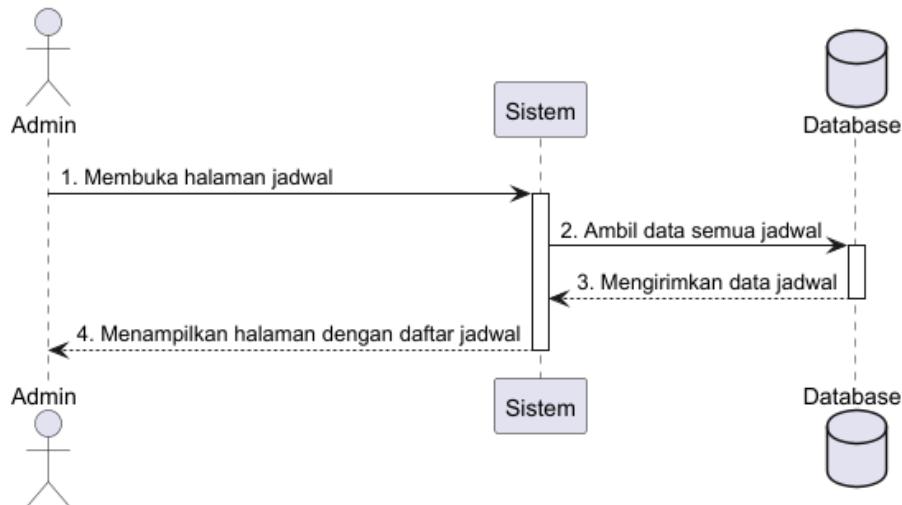


I.9.A.2 Kelola Jadwal

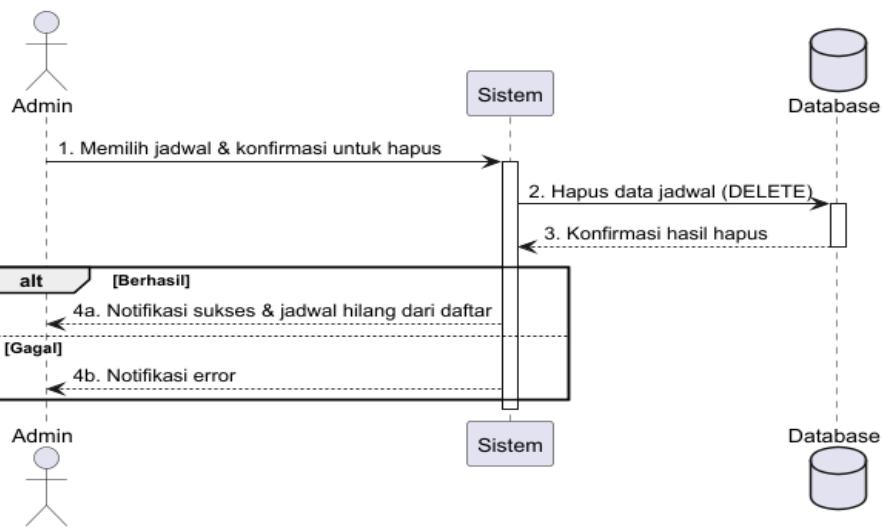
Alur Membuat Jadwal Baru



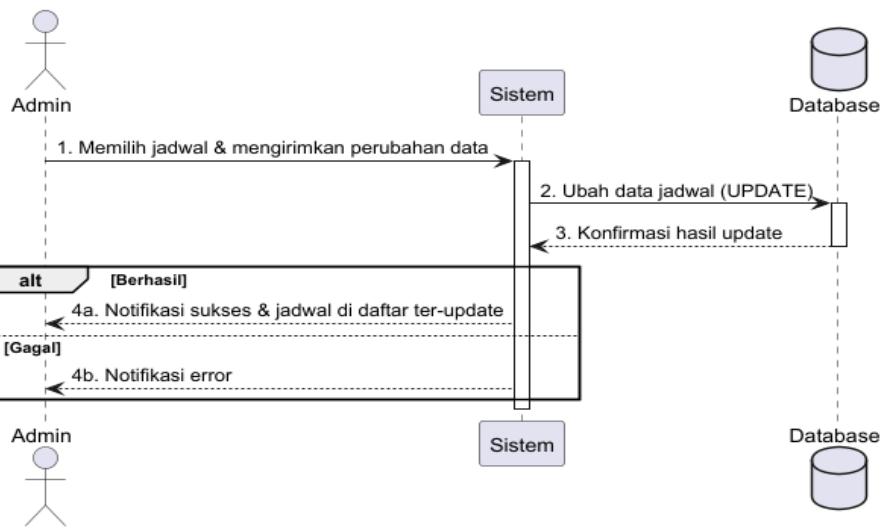
Alur Menampilkan Daftar Jadwal



Alur Menghapus Jadwal

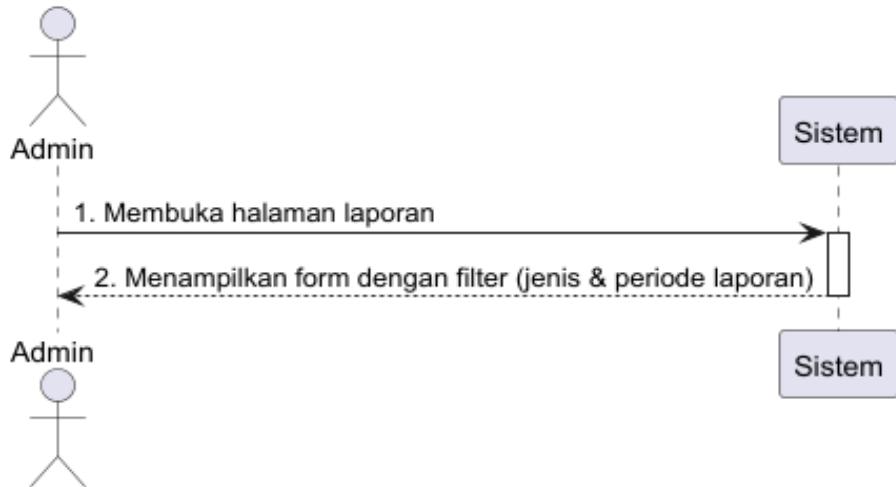


Alur Mengubah Jadwal

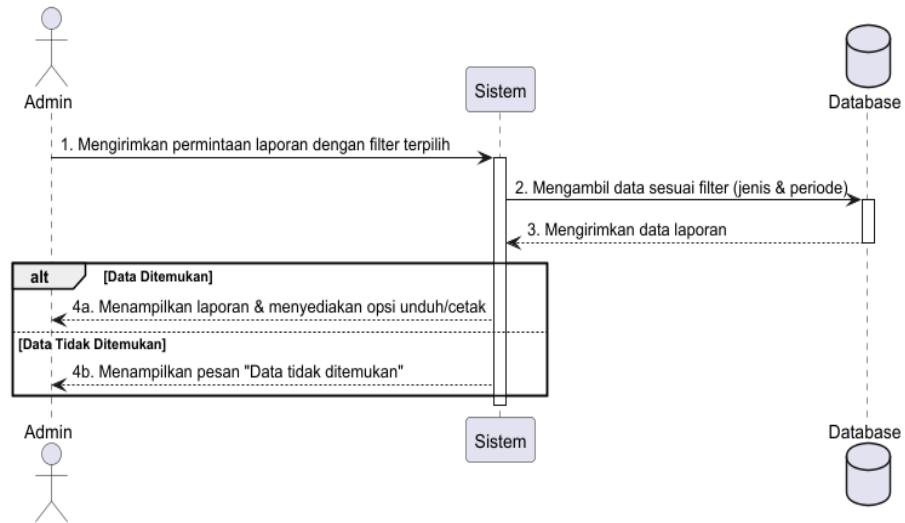


I.9.A.3 Kelola Laporan

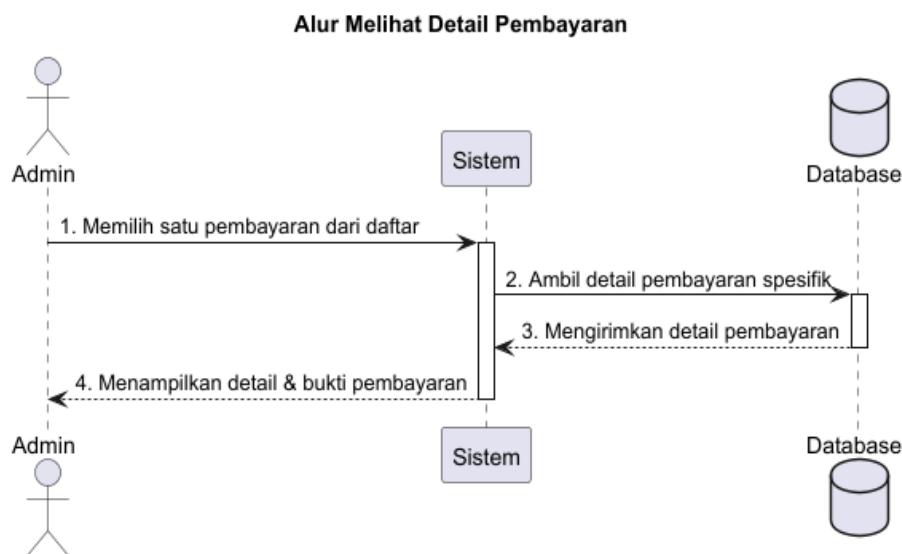
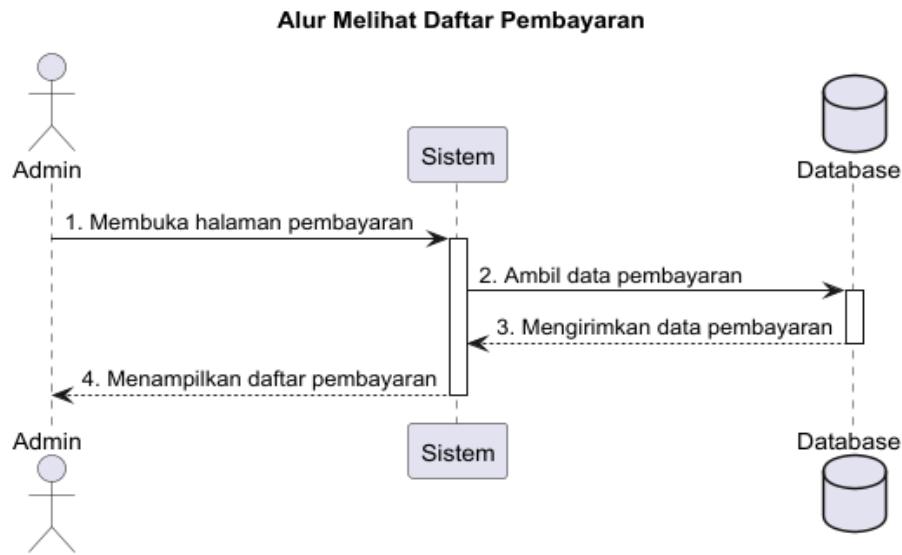
Alur Memilih Kriteria Laporan

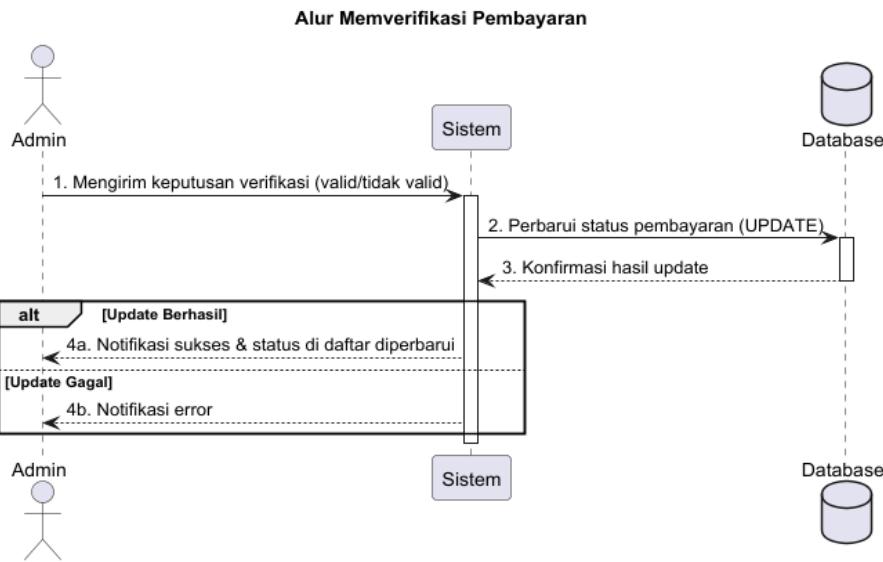


Alur Menghasilkan Laporan

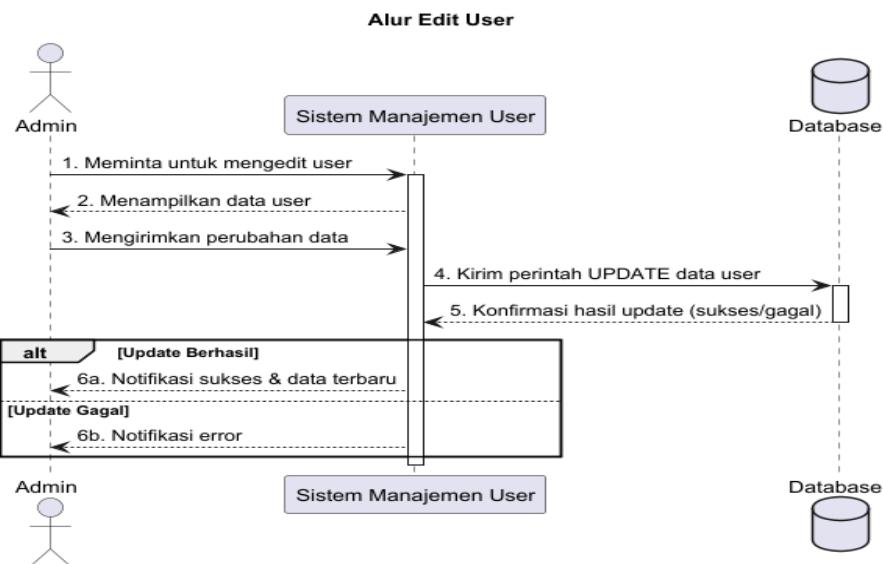


I.9.A.4 Kelola Pembayaran

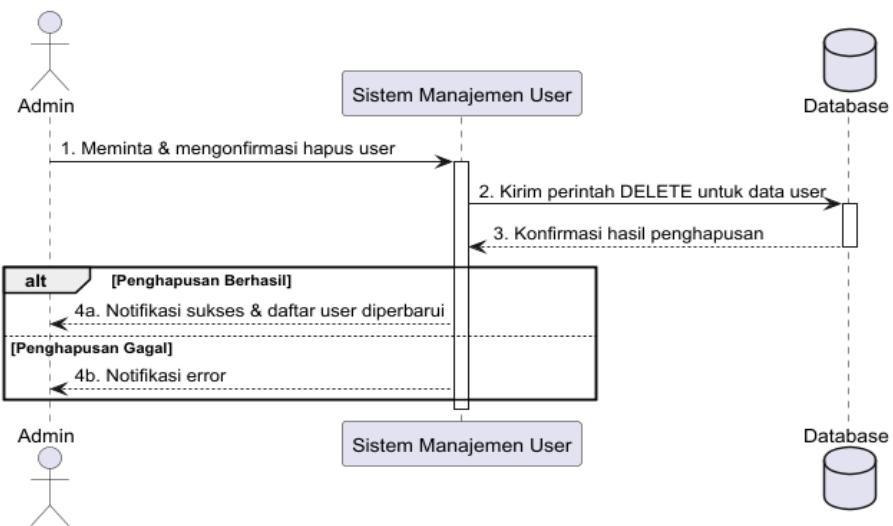




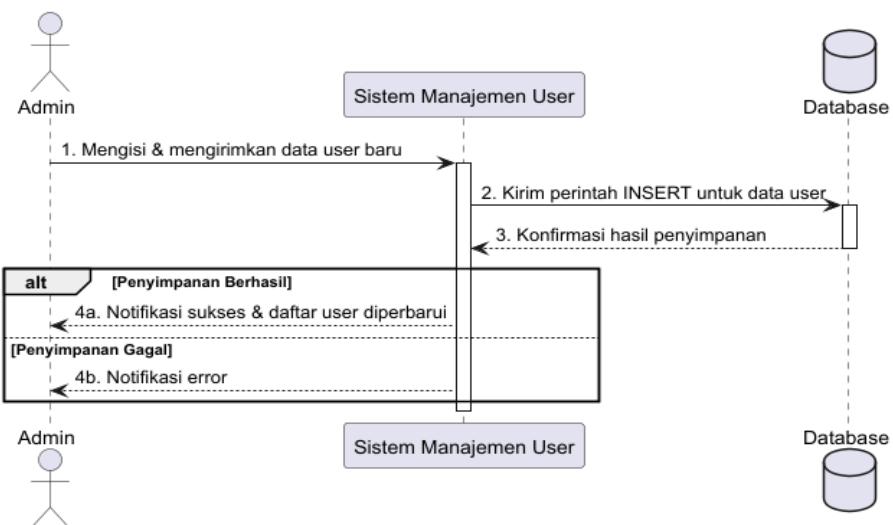
I.9.A.5 Kelola Data User



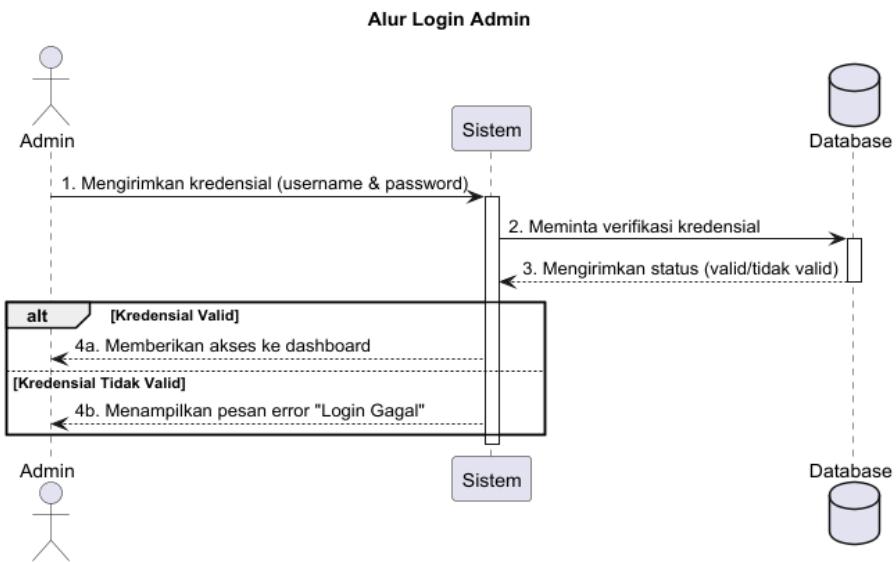
Alur Hapus User



Alur Tambah User

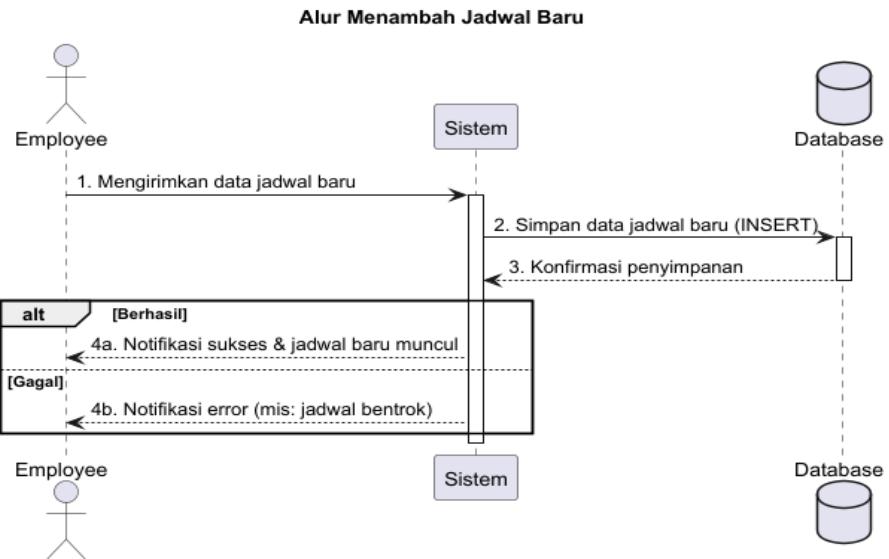


I.9.A.6 Login

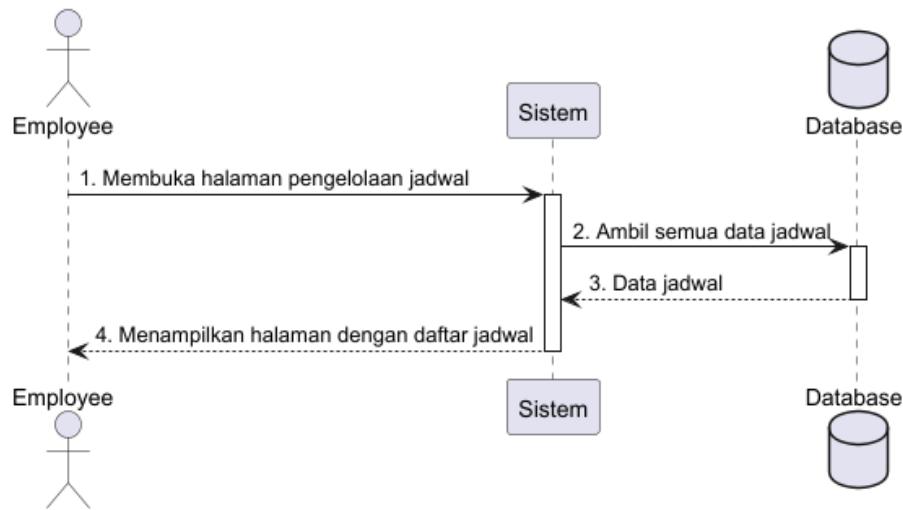


I.9.B. Employee

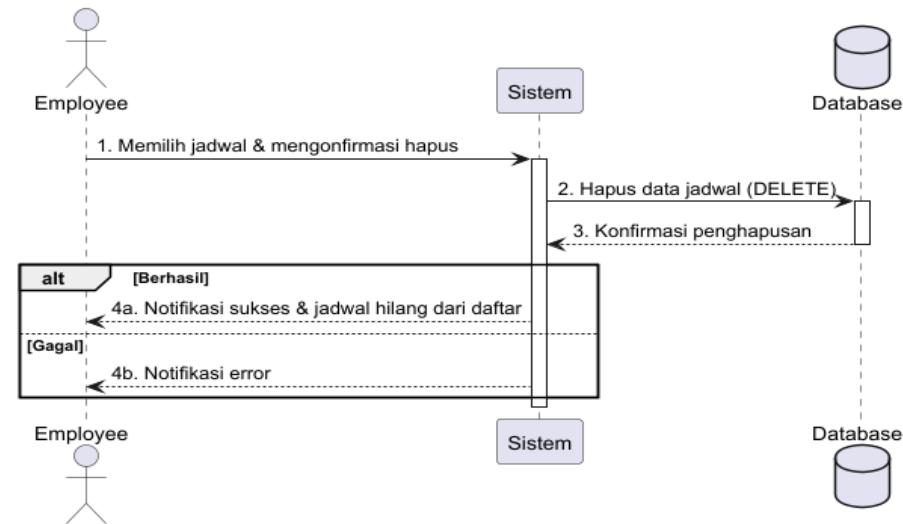
I.9.B.1 Kelola Jadwal

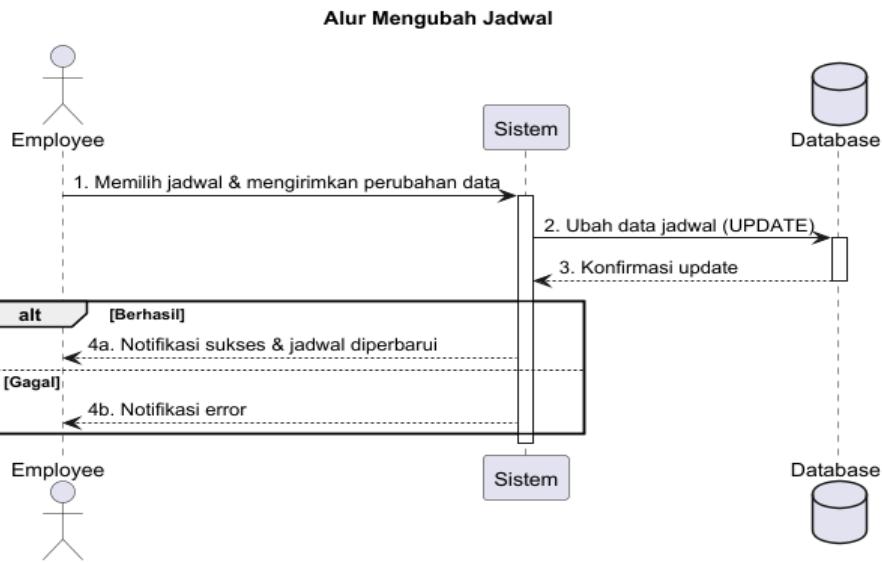


Alur Menampilkan Daftar Jadwal

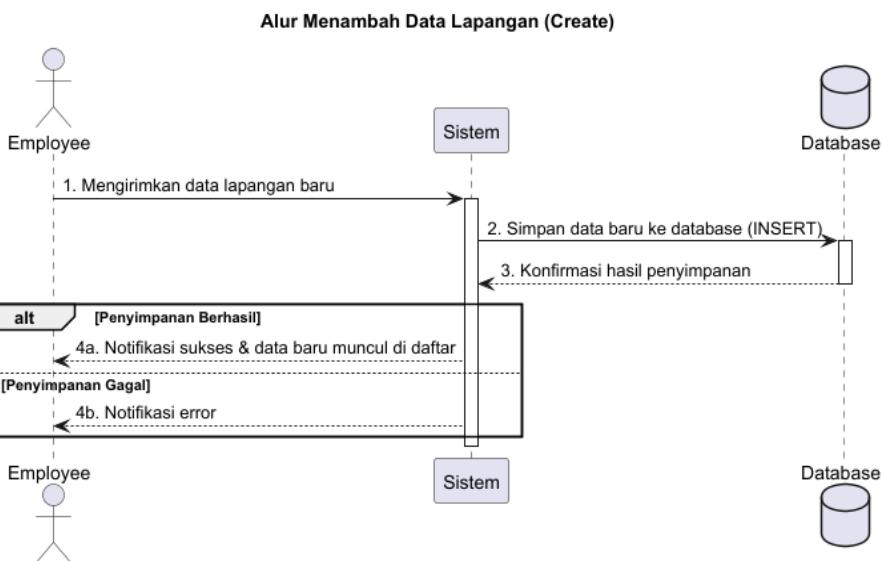


Alur Menghapus Jadwal

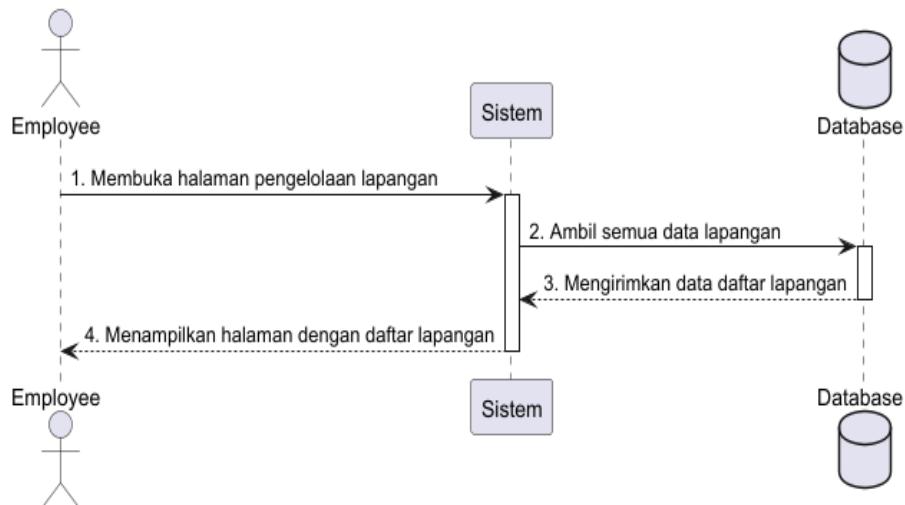




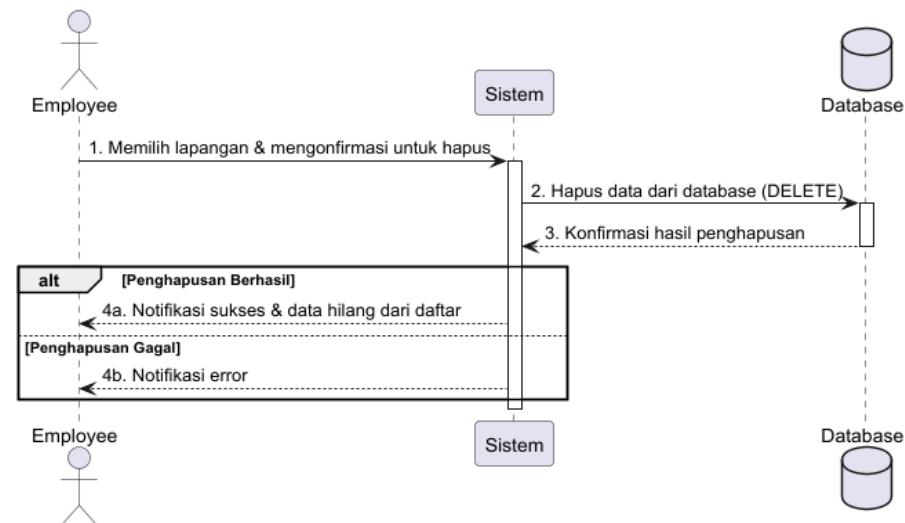
I.9.B.2 Kelola Lapangan

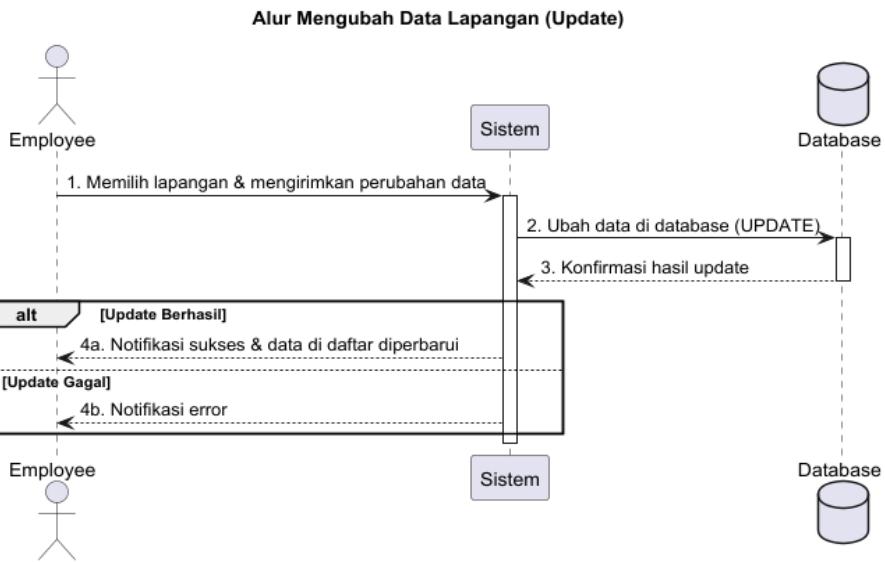


Alur Menampilkan Daftar Lapangan

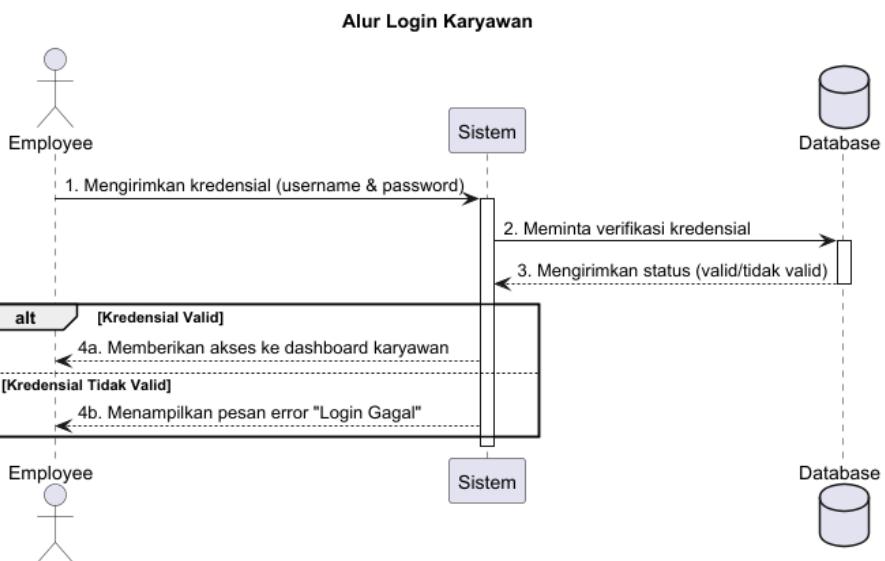


Alur Menghapus Data Lapangan (Delete)





I.9.B.3 Login

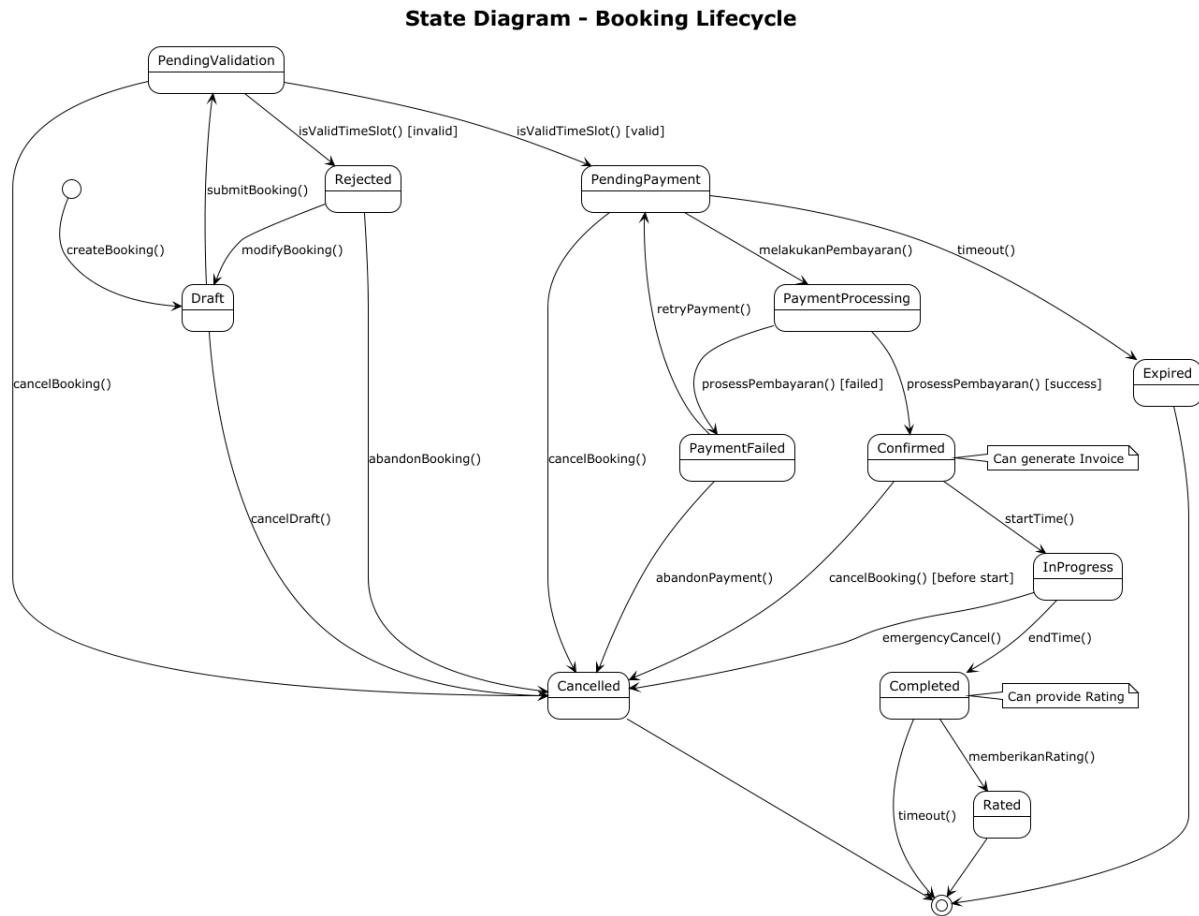


I.9.C. Manager

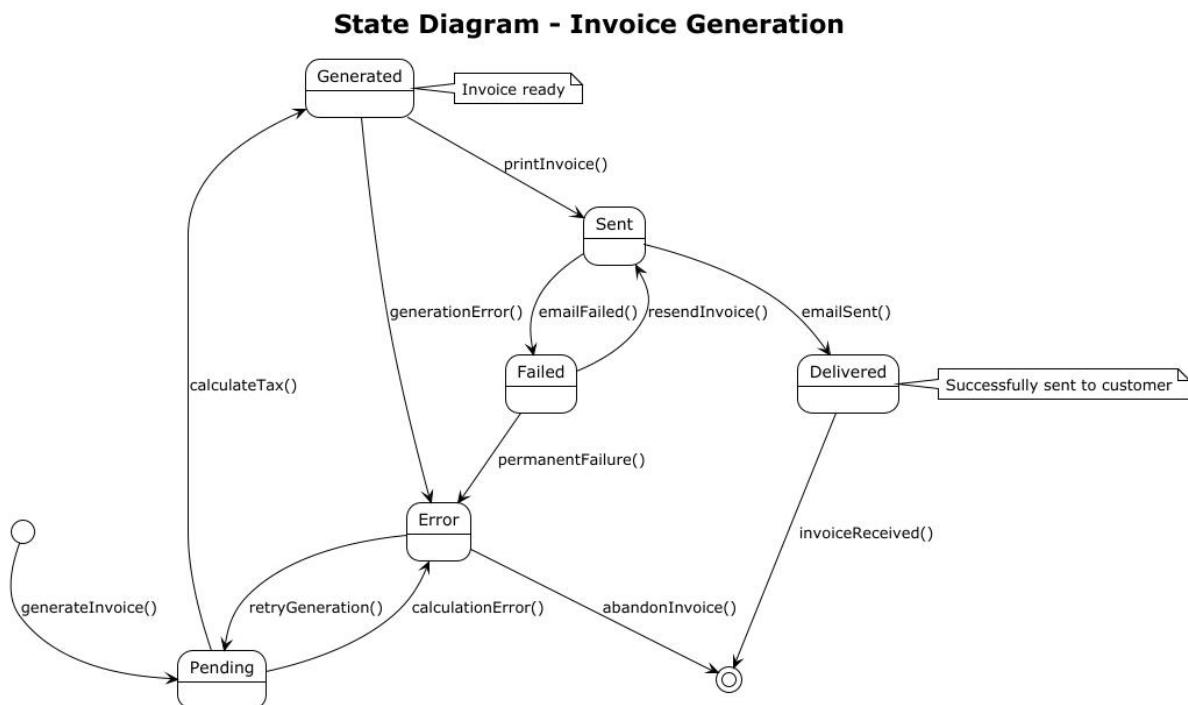
I.9.D. Member

I.9.E. Tamu

I.10 State Diagram

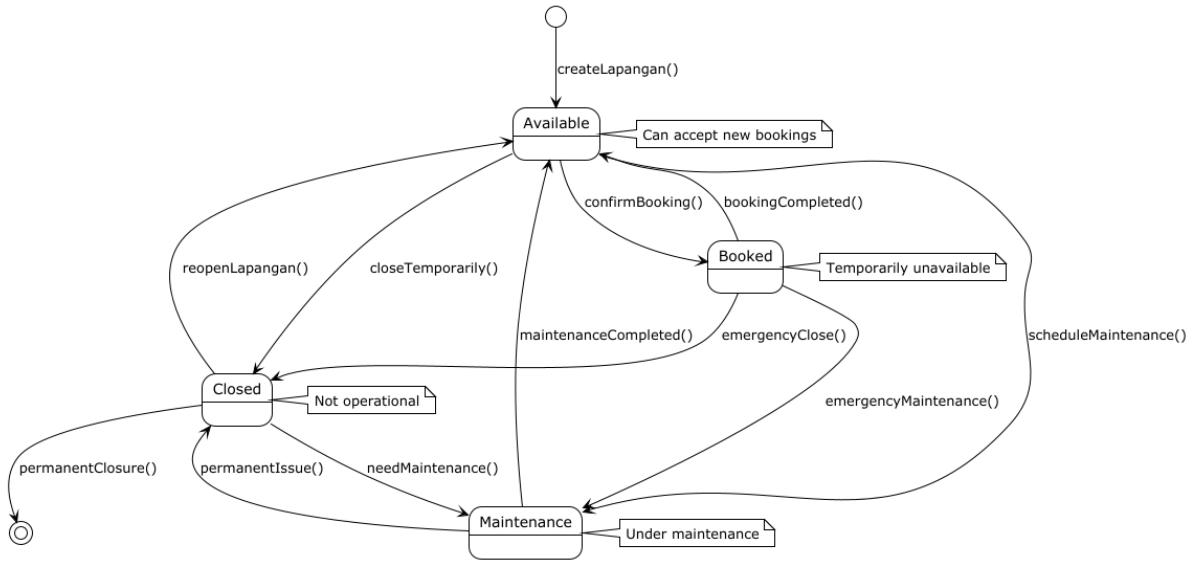


Gambar 1. 14 booking lifecycle



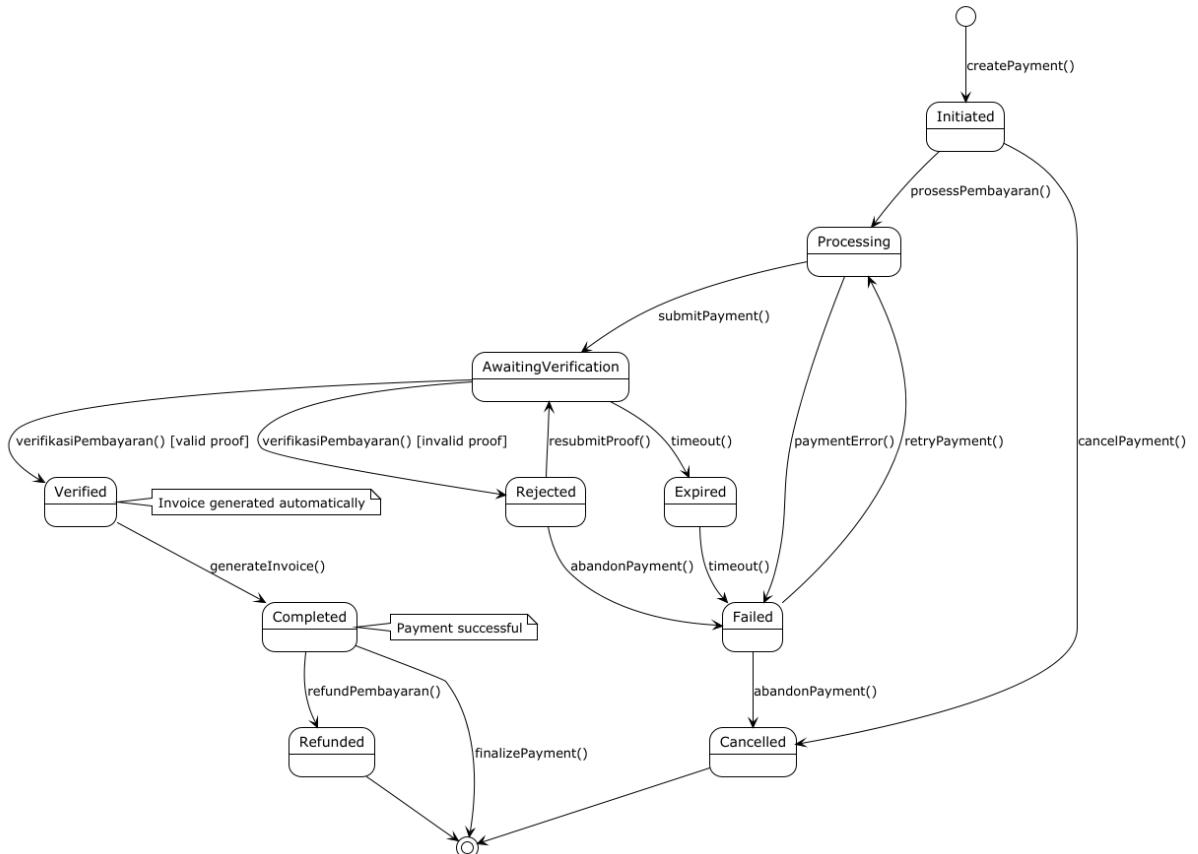
Gambar 1. 15 Invoice generation

State Diagram - Lapangan Status



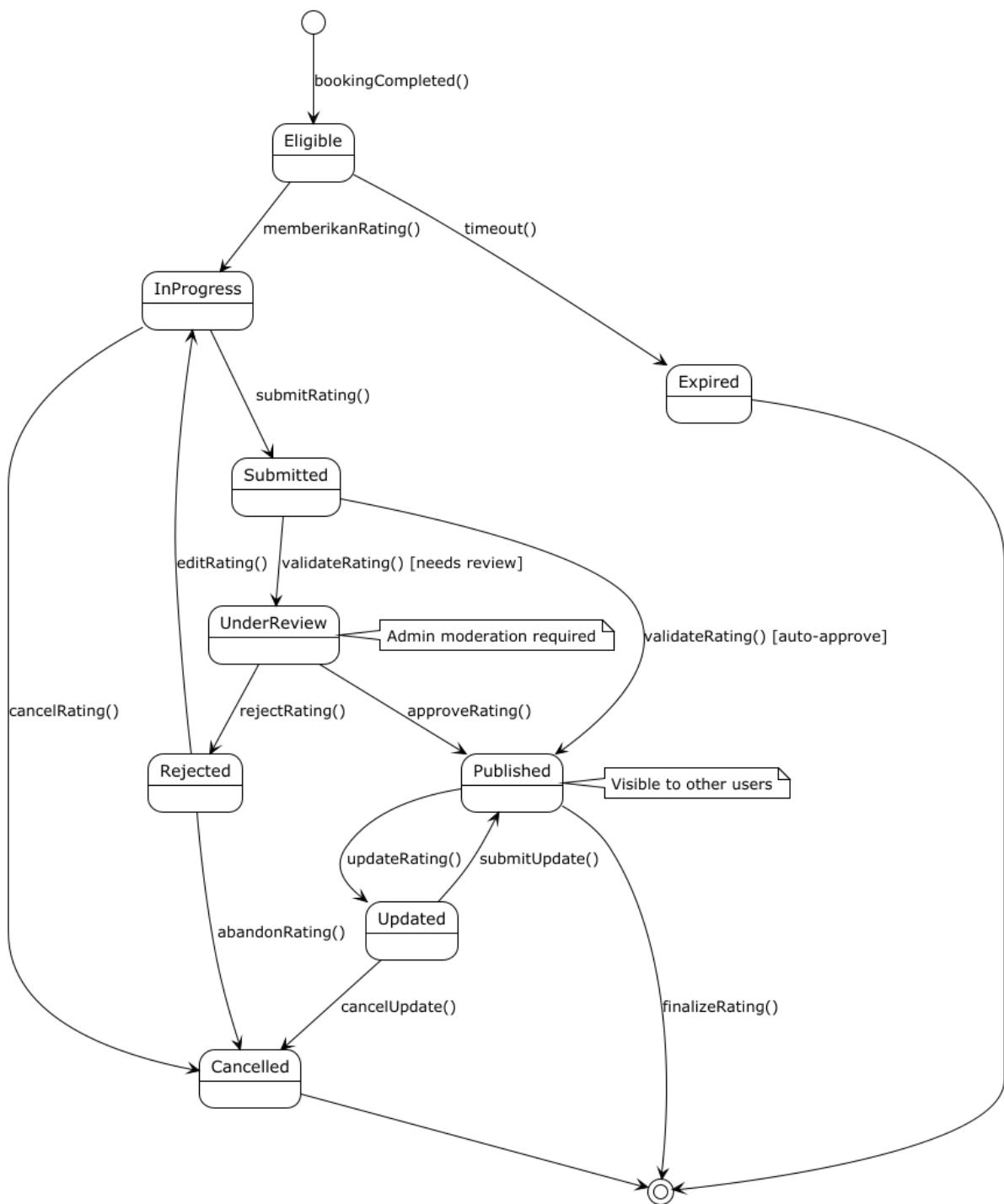
Gambar 1. 16 lapangan status

State Diagram - Payment Processing



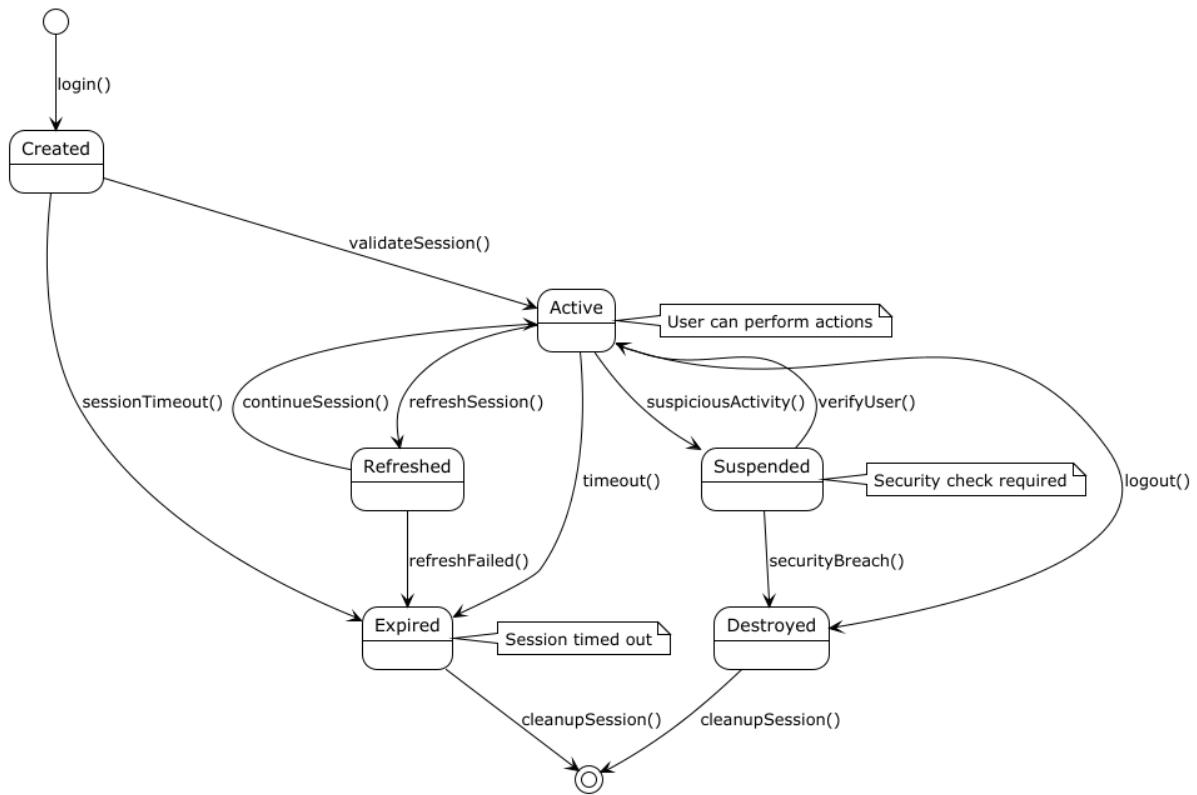
Gambar 1. 17 payment processing

State Diagram - Rating System



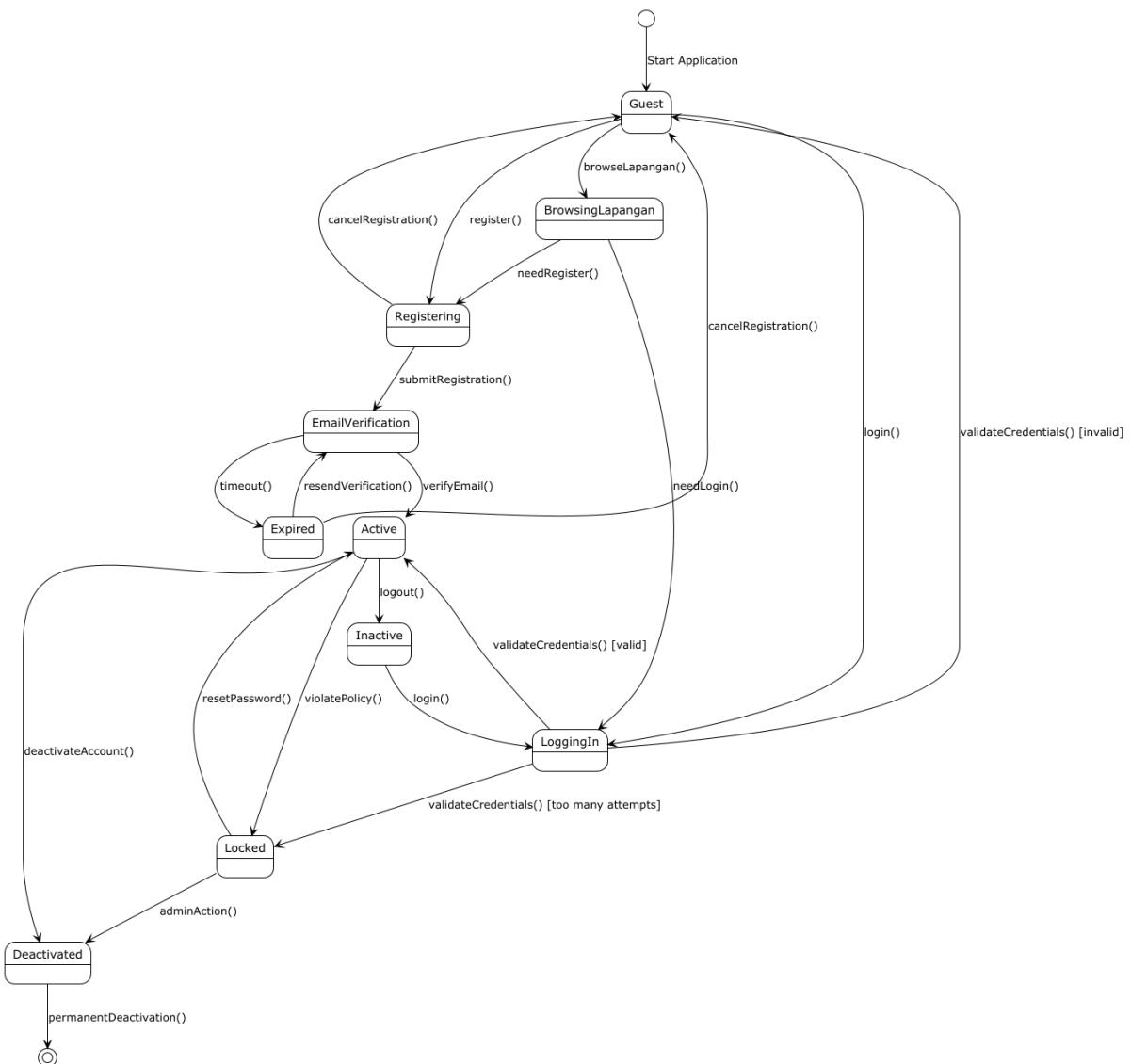
Gambar 1. 18 rating system

State Diagram - Session Management



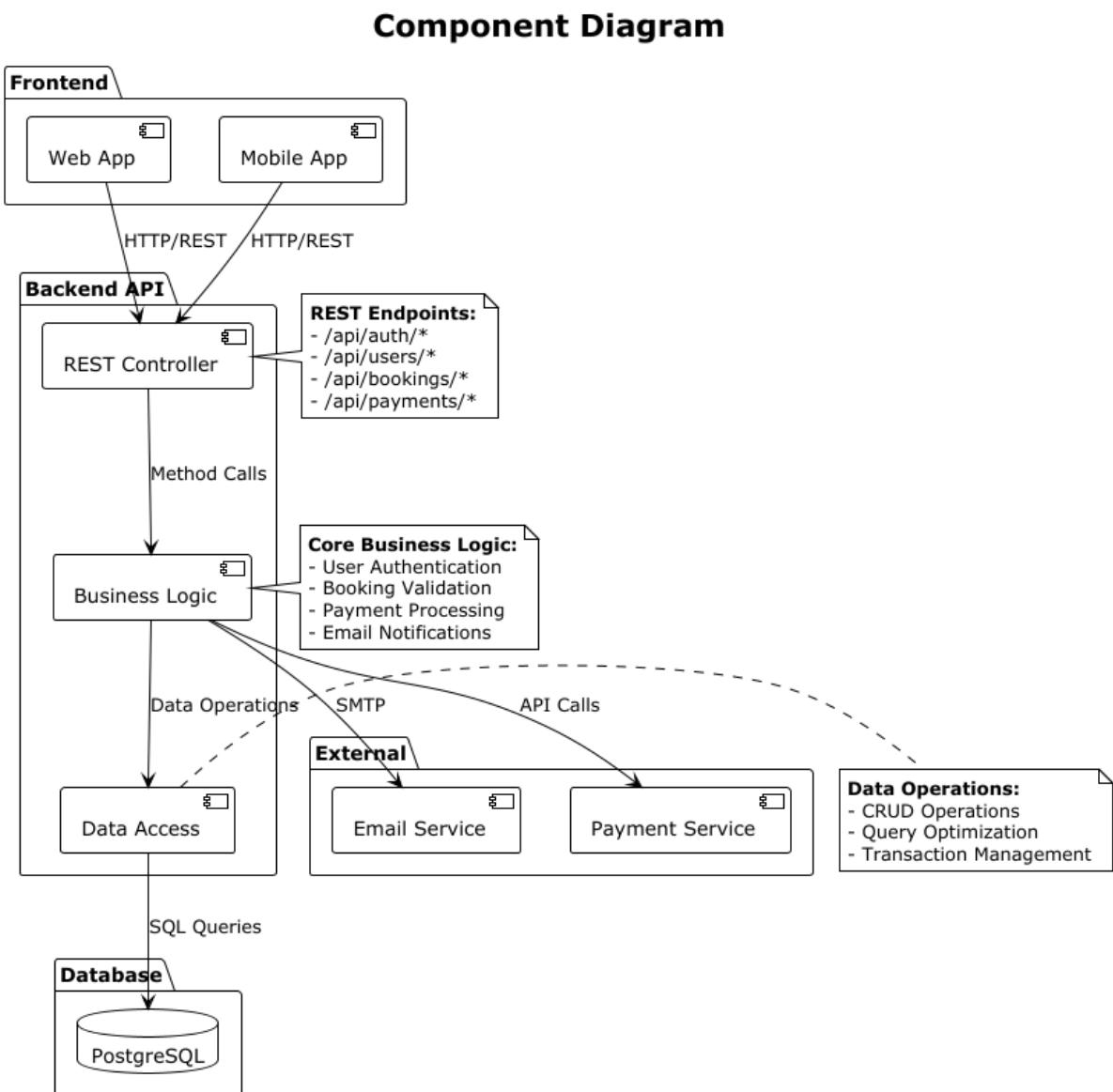
Gambar 1. 19 session management

State Diagram - User Authentication



Gambar 1. 20 user auth

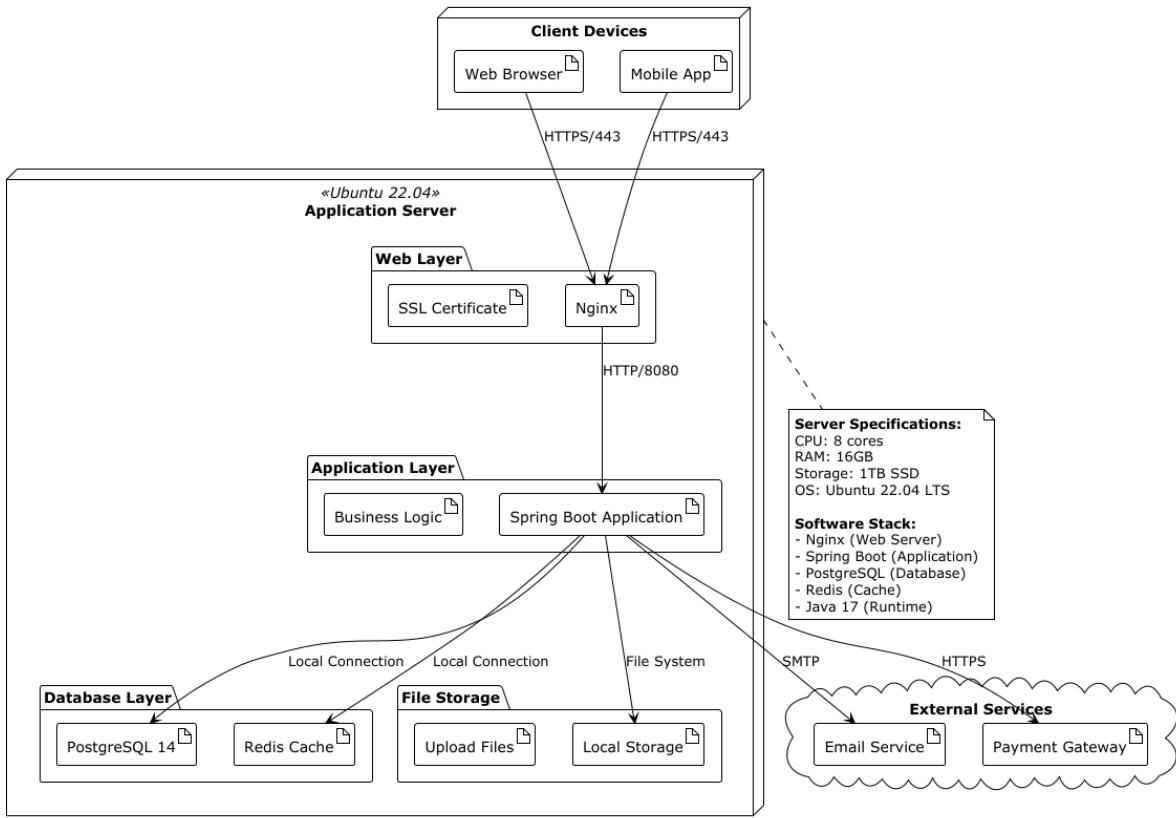
I.11 Component Diagram



Gambar 1. 21 component diagram

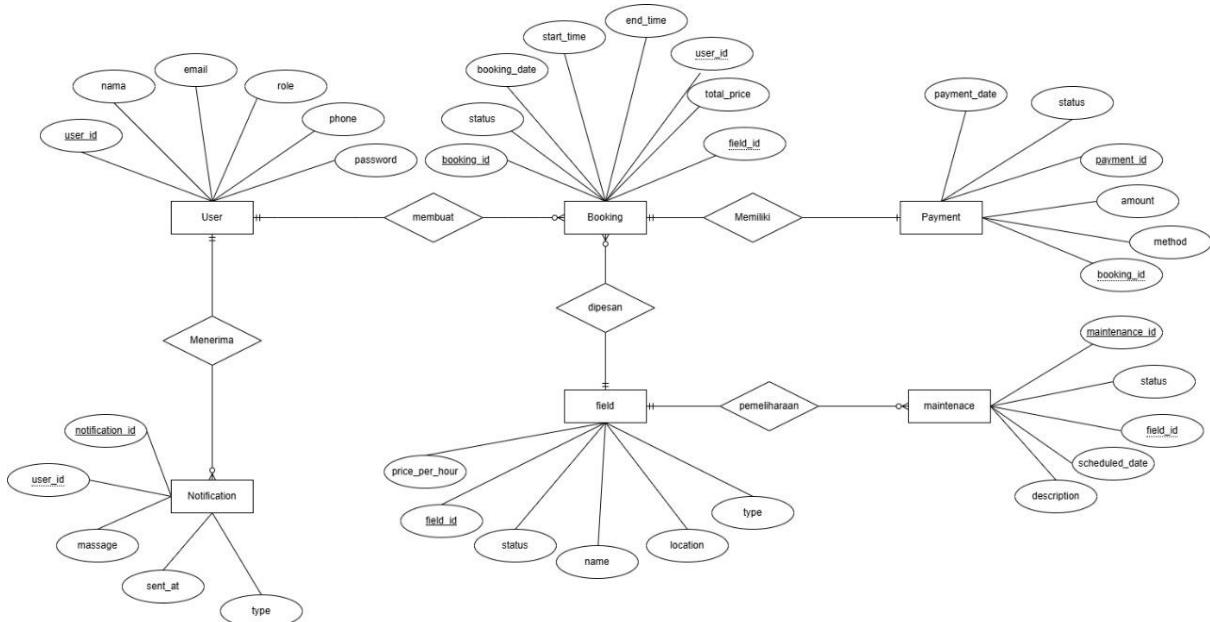
I.12 Deployment Diagram

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

The image displays two wireframe mockups for a mobile application. The top mockup is for a search feature titled "BOOKING LAPANGAN ONLINE". It includes a search bar ("Cari nama venue"), a city selection bar ("Pilih Kota"), a sport selection bar ("Pilih Cabang Olahraga"), and a search button ("Cari Venue"). Below these are three placeholder cards for venues, each showing placeholder text and a price of "Rp.300.000". The bottom mockup is a login screen titled "Login". It features a background illustration of a person walking towards an arched entrance. The login form includes fields for "Email" and "Password", both with their respective icons. There are links for "Lupa Password?" and "Belum punya akun? Daftar". A large "X" icon is located in the top right corner of the login screen.

Sewa Lapangan

Home

Masuk

Daftar

BOOKING LAPANGAN ONLINE

Cari nama venue

Pilih Kota

Pilih Cabang Olahraga

Cari Venue

Lorep ipsum
Lorep ipsum
Lorep ipsum
Lorep ipsum

Rp.300.000

Lorep ipsum
Lorep ipsum
Lorep ipsum
Lorep ipsum

Rp.300.000

Lorep ipsum
Lorep ipsum
Lorep ipsum
Lorep ipsum

Rp.300.000

Login

Email

>Password

Lupa Password?

Belum punya akun? Daftar

X

X

Registrasi

Nama Lengkap 

Email 

Phone 

Password 

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](#)

The screenshot shows a mobile application interface for booking a sports field. At the top, there is a navigation bar with the text "Sewa Lapangan" on the left and "Home", "Masuk", and "Daftar" on the right. Below the navigation bar is a large, light-gray rectangular area with a left arrow on the left and a right arrow on the right, indicating a scrollable content area.

Nama Lapangan

Rating Lapangan | Lokasi

Lokasi Venue
Jl. Lorong Ipanam

Buka Peta

Mulai dari
Rp 50,000 / Jam

Cek Ketersediaan

Pilih Jadwal

Booking

Lapangan Futsal >

Lapangan menggunakan vinyl

Jadwal Tersedia

60 Menit
08.00 - 09.00
Rp.50.000

60 Menit
09.00 - 10.00
Rp.50.000

60 Menit
10.00 - 11.00
Rp.50.000

60 Menit
11.00 - 12.00
Rp.50.000

60 Menit
12.00 - 13.00
Rp.50.000

60 Menit
13.00 - 14.00
Rp.50.000

60 Menit
14.00 - 15.00
Rp.50.000

60 Menit
15.00 - 16.00
Rp.50.000

60 Menit
16.00 - 17.00
Rp.50.000

60 Menit
17.00 - 18.00
Rp.50.000

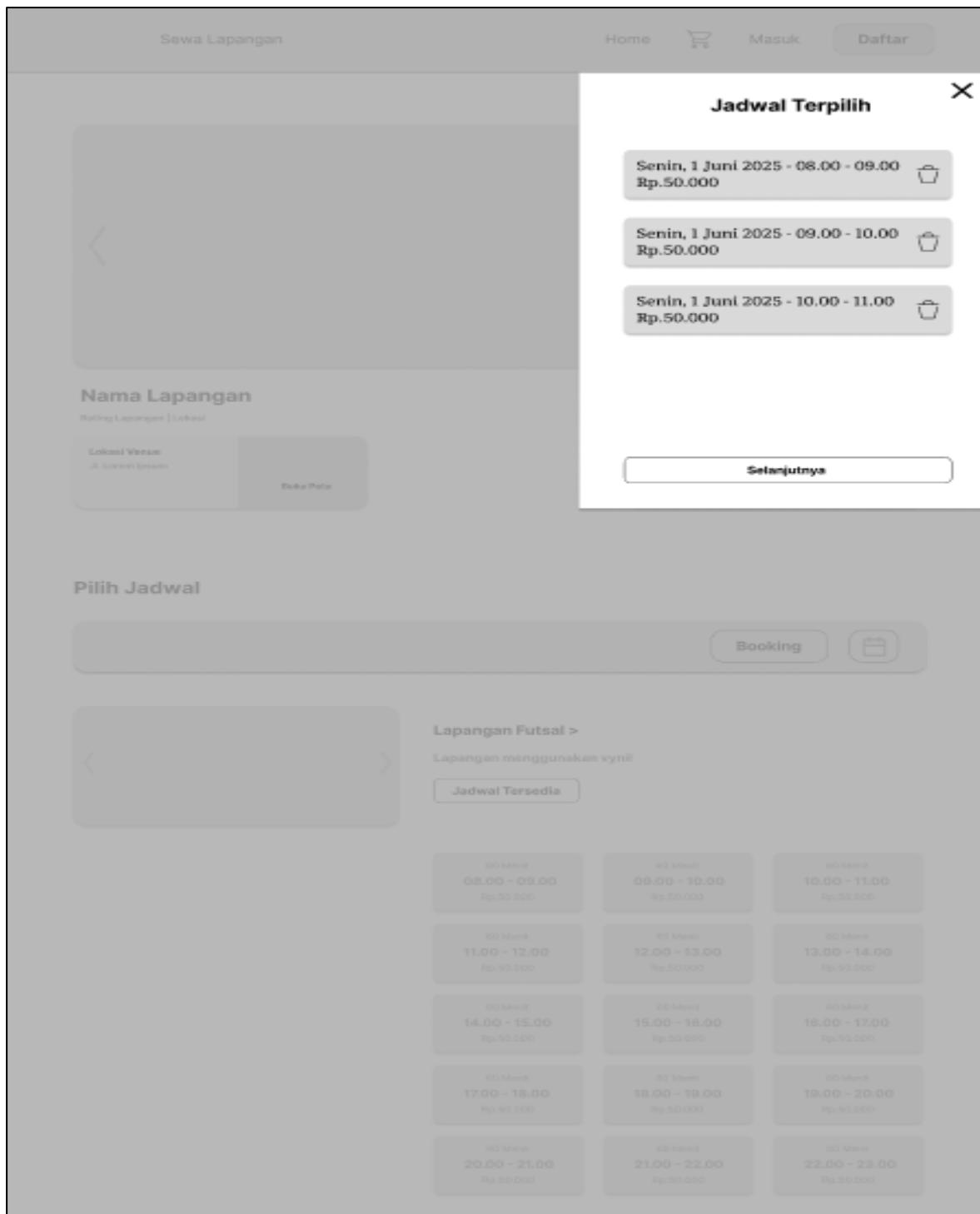
60 Menit
18.00 - 19.00
Rp.50.000

60 Menit
19.00 - 20.00
Rp.50.000

60 Menit
20.00 - 21.00
Rp.50.000

60 Menit
21.00 - 22.00
Rp.50.000

60 Menit
22.00 - 23.00
Rp.50.000



BOOKING LAPANGAN ONLINE

Home Contact

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	08999999	180	150.000	Reserved	