DFD Level 0

Bus Ticket Reservation System — Data Flow Diagram (Level 0)

Passenger (User) → Book a Trip → Bus Ticket Reservation System

Bus Ticket Reservation System → Approved Booking → Payment

Payment → Booking Details/Reciept → Passenger (User)

Bus Ticket Reservation System ↔ Store Data / Provide Data ↔ Database

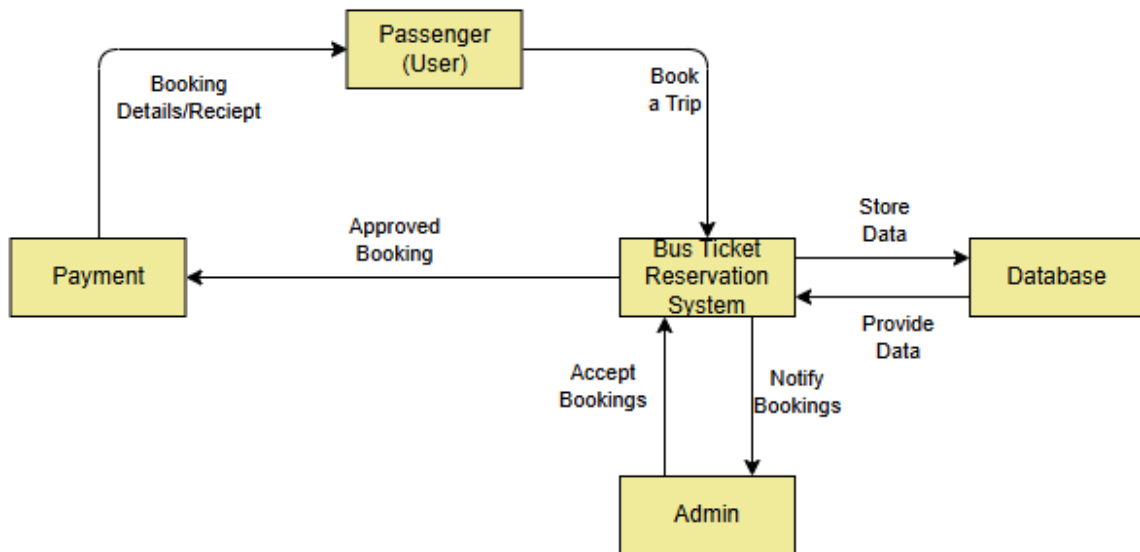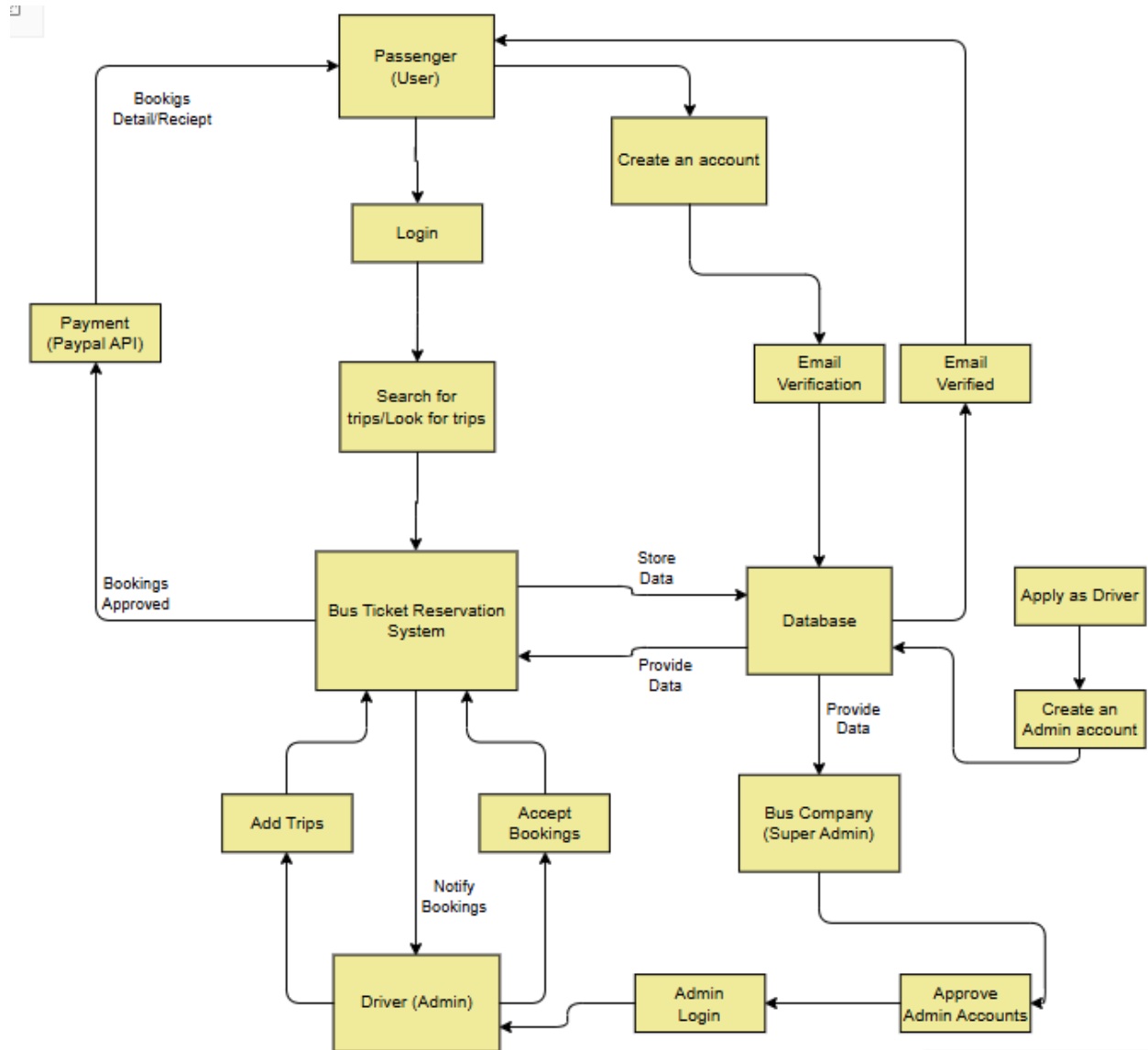Admin → Accept Bookings → Bus Ticket Reservation System

Bus Ticket Reservation System → Notify Bookings → Admin

System Architecture

Security Design

User Actions

Login

Register

Additional Security Layers

Google reCAPTCHA

Input Validation

Required Fields

Type Checking

Authentication

bcrypt

Jetstream + Fortify

Registration

Login

2FA

Filament

Login

Registration

Spatie RBAC

Passenger (User)

Driver (Admin)

Bus Company (Super Admin)

Secure Session Management

Encrypted Sessions

Regeneration