TixOnline

Cinema Ticket Booking

G7

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Features

- Dashboard for admin
- Show schedules based on movie or location
- Secure payment
- Stay logged in for 30 days
- Multiuser
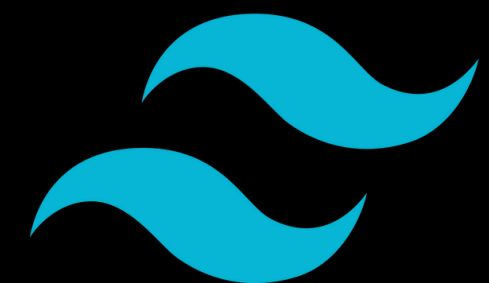- Payment has time limit

Frameworks

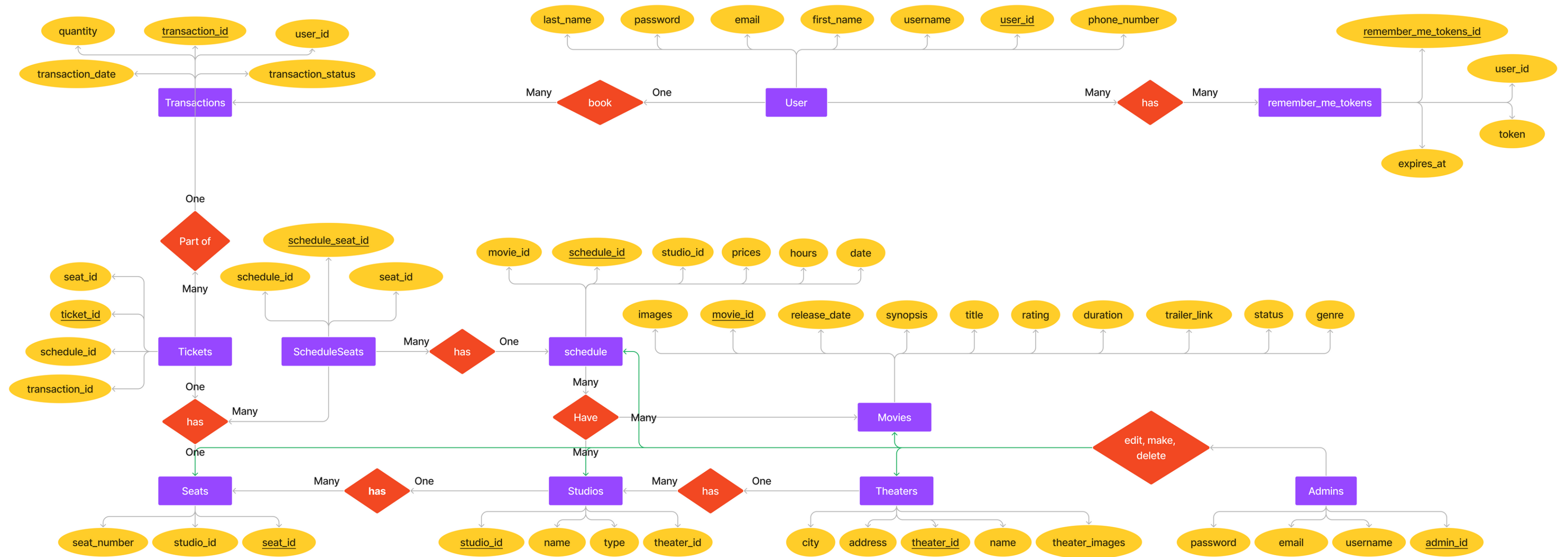- NodeJS
- Express
- PostgreSQL
- EJS
- Tailwind

Dependencies

- Express
- Express-session
- Body-parser
- Paypal-rest-sdk
- bcrypt
- multer
- fs
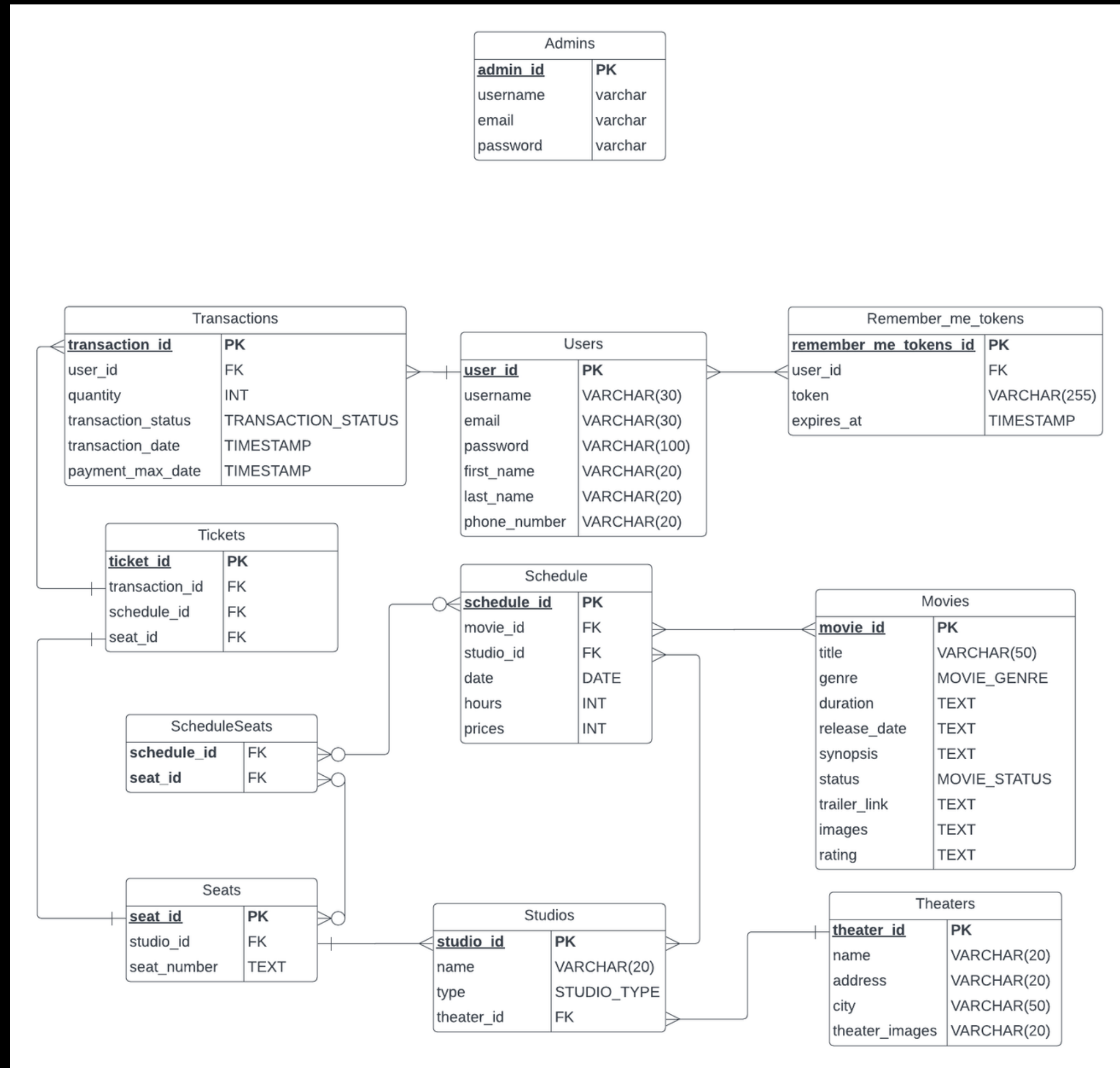- cookie-parser
- node-cron
- ejs
- pg

Tables

- **Admins** (admin_id, username, email, password)
- **Users** (user_id, username, email, password, first_name, last_name, phone_number, points)
- **Movies** (movie_id, title, genre, duration, release_date, synopsis, status, trailer_link, images, rating)
- **Schedule** (schedule_id, movie_id, studio_id, date, hours, prices)
- **Seats** (seat_id, studio_id, seat_number)
- **Scheduleseats** (schedule_id, seat_id)
- **Studios** (studio_id, name, type, theater_id)
- **Theaters** (theater_id, name, address, city, theater_images)
- **Tickets** (ticket_id, transaction_id, schedule_id, seat_id)
- **Transactions** (transaction_id, user_id, quantity, transaction_status, transaction_date, payment_max_date)
- **remember_me_tokens** (remember_me_tokens_id, user_id, token, expires_at)
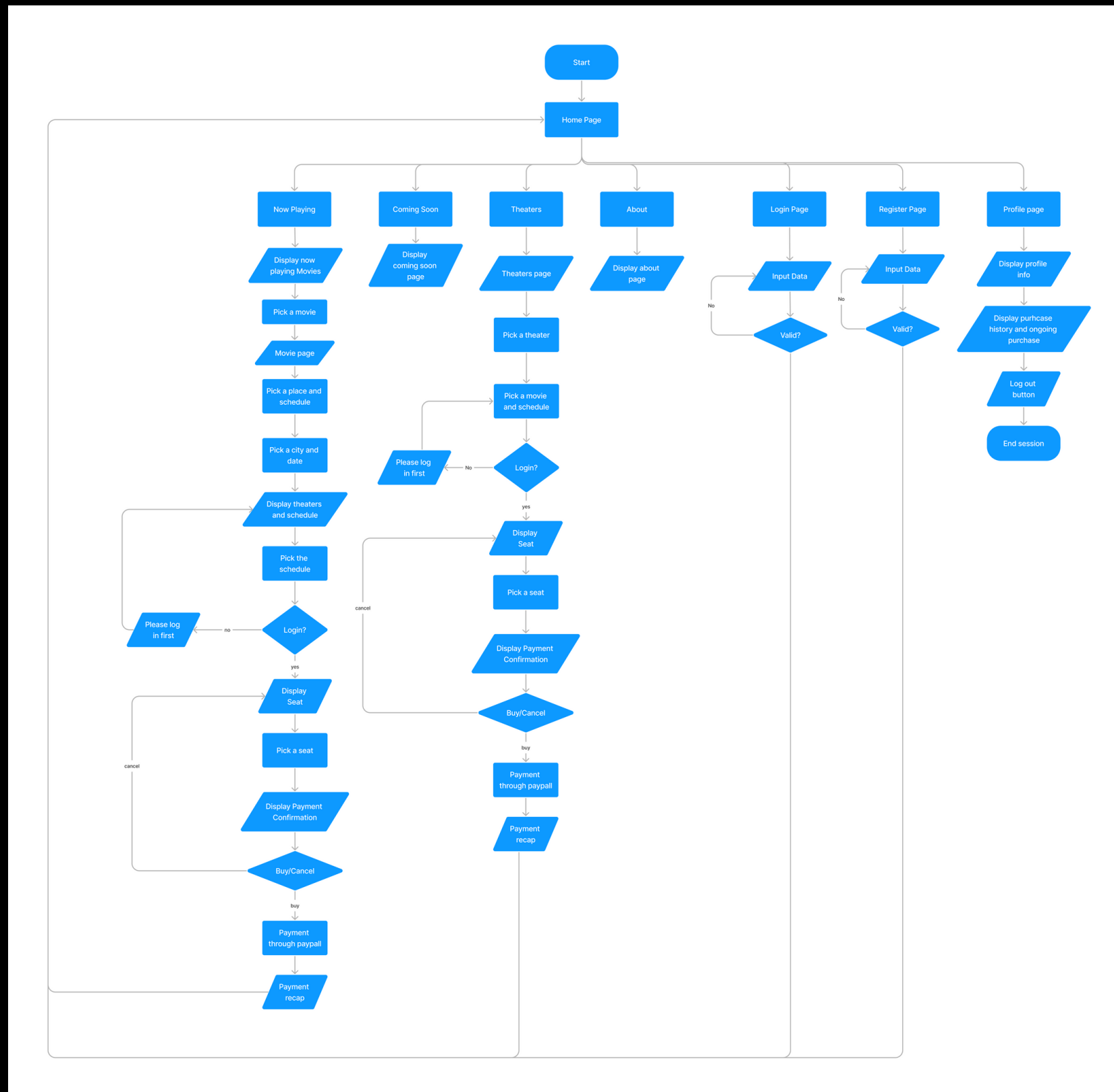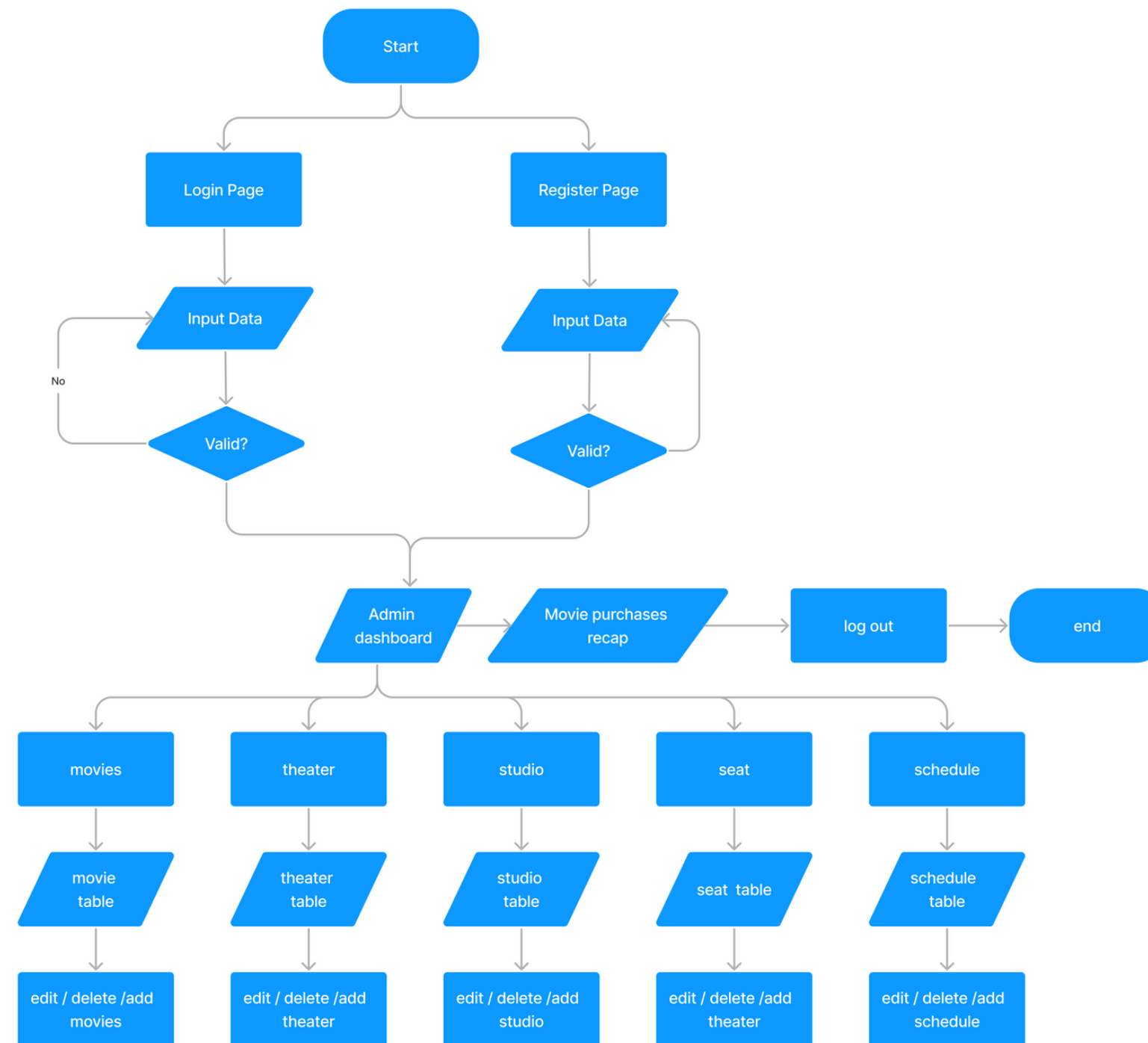
ERD

UML

Admins

admin_id	PK
username	varchar
email	varchar
password	varchar

Transactions

transaction_id	PK
user_id	FK
quantity	INT
transaction_status	TRANSACTION_STATUS
transaction_date	TIMESTAMP
payment_max_date	TIMESTAMP

Users

user_id	PK
username	VARCHAR(30)
email	VARCHAR(30)
password	VARCHAR(100)
first_name	VARCHAR(20)
last_name	VARCHAR(20)
phone_number	VARCHAR(20)

Remember_me_tokens

remember_me_tokens_id	PK
user_id	FK
token	VARCHAR(255)
expires_at	TIMESTAMP

Tickets

ticket_id	PK
transaction_id	FK
schedule_id	FK
seat_id	FK

Schedule

schedule_id	PK
movie_id	FK
studio_id	FK
date	DATE
hours	INT
prices	INT

Movies

movie_id	PK
title	VARCHAR(50)
genre	MOVIE_GENRE
duration	TEXT
release_date	TEXT
synopsis	TEXT
status	MOVIE_STATUS
trailer_link	TEXT
images	TEXT
rating	TEXT

ScheduleSeats

schedule_id	FK
seat_id	FK

Seats

seat_id	PK
studio_id	FK
seat_number	TEXT

Studios

studio_id	PK
name	VARCHAR(20)
type	STUDIO_TYPE
theater_id	FK

Theaters

theater_id	PK
name	VARCHAR(20)
address	VARCHAR(20)
city	VARCHAR(50)
theater_images	VARCHAR(20)

User Flowchart

Admin Flowchart

Website Flows

1. Login page
- Introduce your website and its main features.
- Provide navigation links to other pages like Movies, Schedule, Theaters, and Login/Register.
2. Movies page
- Display a list of available movies.
- Show movie details such as title, genre, duration, release date, synopsis, rating, and images.
- Include a link to the movie's trailer.
- Allow users to filter movies based on genre or rating.
3. Schedule Page
- Present a calendar or date selection component.
- Display available movie schedules for the selected date.
- Show movie details, studio information, date, hours, and prices.
- Include a link to book tickets for a specific schedule.
4. Theaters Page
- List all available theaters.
- Show theater details like name, address, city, and images.
- Include a link to view the theaters' studios and movie schedules.

Website Flows

5. Login/Register Page
   - Include forms for username/email and password for login.
   - For registration, include additional fields like first name, last name, and phone number.
   - Implement authentication and validation mechanisms.'
6. User Dashboard
   - After successful login, redirect users to a personalized dashboard.
   - Display user-specific information like points, transaction history, and account settings.
   - Allow users to manage their profile, change passwords, and view past transactions.
7. Movie Details Page
   - Show comprehensive details of a selected movie, including synopsis, genre, duration, and rating.
   - Display images and trailers related to the movie.
   - Provide an option to book tickets for available schedules.
8. Ticket Booking Page
   - Show the selected movie, date, and available seats for a specific schedule.
   - Allow users to select seats from a seating plan.
   - Display ticket prices and a summary of the selected seats and total amount.
   - Provide a form for user details and payment information.
   - Process the booking request and update the transaction status.

Website Flows

9. Admin-Movies Page
- Display a list of movies in the database.
- Allow admins to add new movies or edit existing movie details.
- Provide options to modify movie information such as title, genre, duration, release date, synopsis, status, trailer link, images, and rating.

10. Admin-Studios Page
- Present a list of studios available in the system.
- Allow admins to add new studios or edit existing studio details.
- Provide options to customize studio information such as name, type, and associated theater.

11. Admin-Theaters Page
- Show a list of theaters in the system.
- Allow admins to add new theaters or edit existing theater details.
- Provide options to modify theater information such as name, address, city, and images.

12. Admin-Schedules Page
- Display a list of movie schedules.
- Allow admins to add new schedules or edit existing schedule details.
- Provide options to customize schedule information such as movie, studio, date, hours, and prices.

13. Admin-Seats Page
- Show a list of seats in each studio.
- Allow admins to add new seats or edit existing seat details.
- Provide options to modify seat information such as seat number and associated studio.