Table Design

Table No: 1

Table Name: tbl_signup
Primary Key: user_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	user_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each user.
2.	name	VARCHAR(50)	NOT NULL	User's full name.
3.	email	VARCHAR(50)	UNIQUE, NOT NULL	User's email (must be unique).
4.	user_type	ENUM	NOT NULL	Role of the user (Admin, ServiceProvider, User).
5.	phone_number	VARCHAR(15)	NOT NULL	User's contact number.
6.	registration_date	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Date and time of registration.

Table No: 2

Table Name: tbl_login
Primary Key: login_id
Foreign Key: user_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	login_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each login.
2.	user_id	INT	Foreign Key, NOT NULL	Linked to user_id in Users table.
3.	email	VARCHAR(50)	Foreign Key, UNIQUE, NOT NULL	User's email (must be unique).
4.	password	VARCHAR(50)	NOT NULL	Encrypted password for authentication.
5.	last_login	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Timestamp of last login.
6.	is_logged_in	BOOLEAN	DEFAULT FALSE	Indicates if user is currently logged in.

Table No: 3

Table Name: tbl_categories
Primary Key: category_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	category_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each category.
2.	category_name	VARCHAR(255)	NOT NULL	Name of the category.
3.	description	TEXT	-	Description of the category.

Table No: 4

Table Name: tbl_subcategories
Primary Key: subcategory_id
Foreign Key: category_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	subcategory_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each subcategory.
2.	category_id	INT	Foreign Key, NOT NULL	Linked to category_id in Categories table.
3.	subcategory_name	VARCHAR(255)	NOT NULL	Name of the subcategory.
4.	description	TEXT	-	Description of the subcategory.

Table No: 5

Table Name: tbl_services
Primary Key: service_id
Foreign Key: subcategory_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	service_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each service.
2.	subcategory_id	INT	Foreign Key, NOT NULL	Linked to subcategory_id in Subcategories table.
3.	service_name	VARCHAR(255)	NOT NULL	Name of the service.
4.	price	DECIMAL(10,2)	NOT NULL	Cost of the service.
5.	description	TEXT	-	Detailed description of the service.
6.	add_to_cart_option	BOOLEAN	DEFAULT TRUE	Indicates if the service can be added to cart.

Table No: 6

Table Name: tbl_cart
Primary Key: cart_id
Foreign Key: user_id, service_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	cart_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each cart.
2.	user_id	INT	Foreign Key, NOT NULL	Linked to user_id in Users table.
3.	service_id	INT	Foreign Key, NOT NULL	Linked to service_id in Services table.
4.	quantity	INT	DEFAULT 1	Number of services added to cart.
5.	total_price	DECIMAL(10,2)	NOT NULL	Total price for the added service(s).

Table No: 7

Table Name: tbl_providers
Primary Key: provider_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	provider_id	INT	Primary Key, Linked to user_id in Users table	Unique identifier for the provider.
2.	verified_status	BOOLEAN	DEFAULT FALSE	Indicates if the provider is verified.
3.	certifications	TEXT	-	Certifications uploaded by the provider.
4.	availability	JSON	-	Available time slots and location preferences.

Table No: 8

Table Name: tbl_bookings
Primary Key: booking_id
Foreign Key: user_id, provider_id, service_id

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	booking_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each booking.
2.	user_id	INT	Foreign Key, NOT NULL	ID of the user making the booking.
3.	provider_id	INT	Foreign Key, NOT NULL	ID of the service provider.
4.	service_id	INT	Foreign Key, NOT NULL	ID of the booked service.
5.	booking_date	DATE	NOT NULL	Date of the service booking.
6.	time_slot	TIME	NOT NULL	Time of the booking.
7.	status	ENUM	DEFAULT 'Pending'	Booking status (Pending, Accepted, Rejected, Completed).
8.	priority	ENUM	DEFAULT 'No'	Indicates if it's a priority booking.
9.	total_price	DECIMAL(10,2)	NOT NULL	Cost of the service.

Table No: 9

Table Name: tbl_review
Primary Key: review_id
Foreign Key: user_id, provider_id,

Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	review_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each review.
2.	user_id	INT	Foreign Key, NOT NULL	ID of the user providing the review.
3.	provider_id	INT	Foreign Key, NOT NULL	ID of the reviewed service provider.
4.	rating	INT	CHECK (rating BETWEEN 1 AND 5)	Star rating for the service (1-5).
5.	feedback	TEXT	-	Detailed feedback text.
6.	review_date	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Date and time of the review.

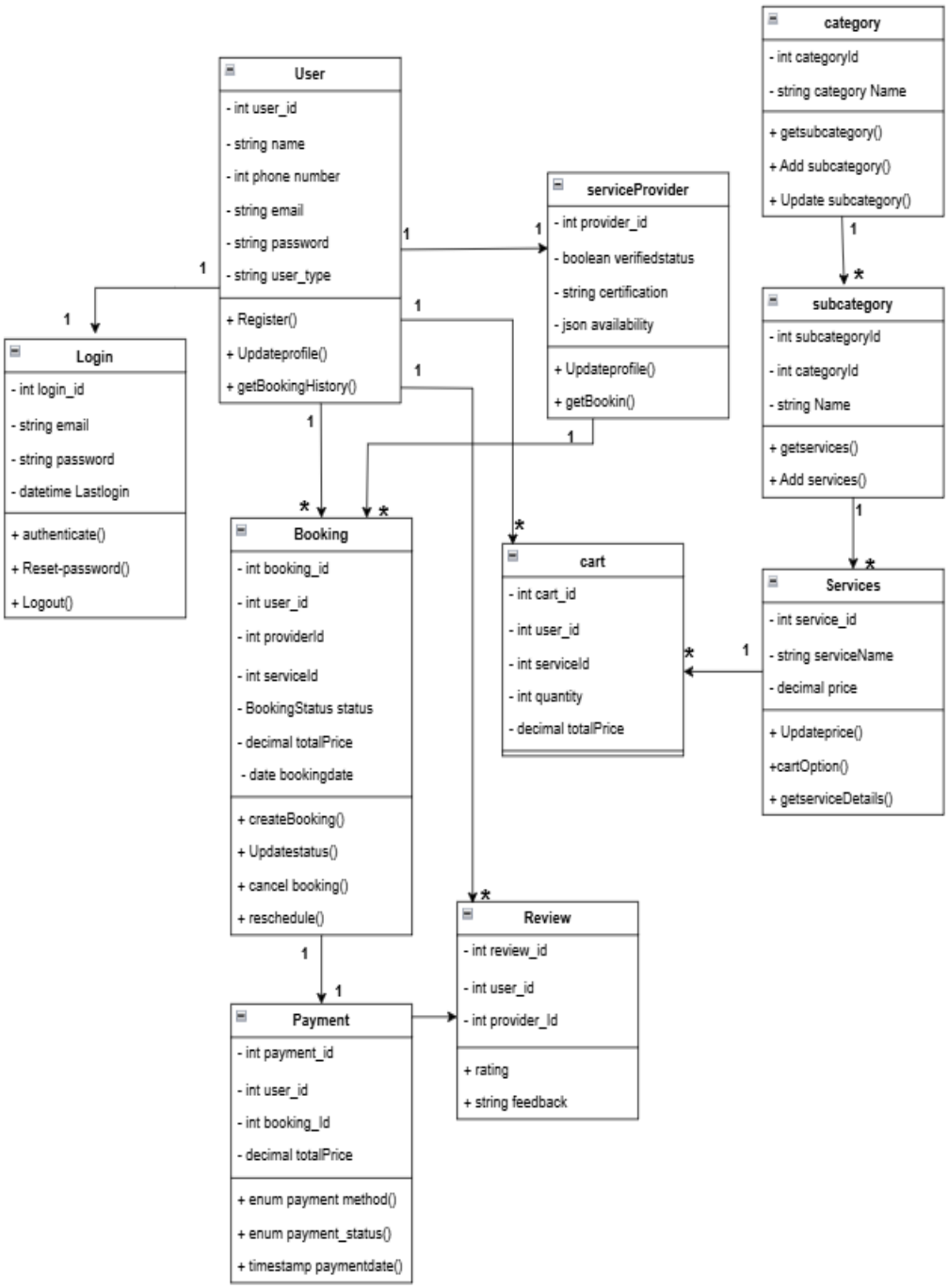
Table No: 10

Table Name: Payments
Primary Key: payment_id
Foreign Key: booking_id, user_id

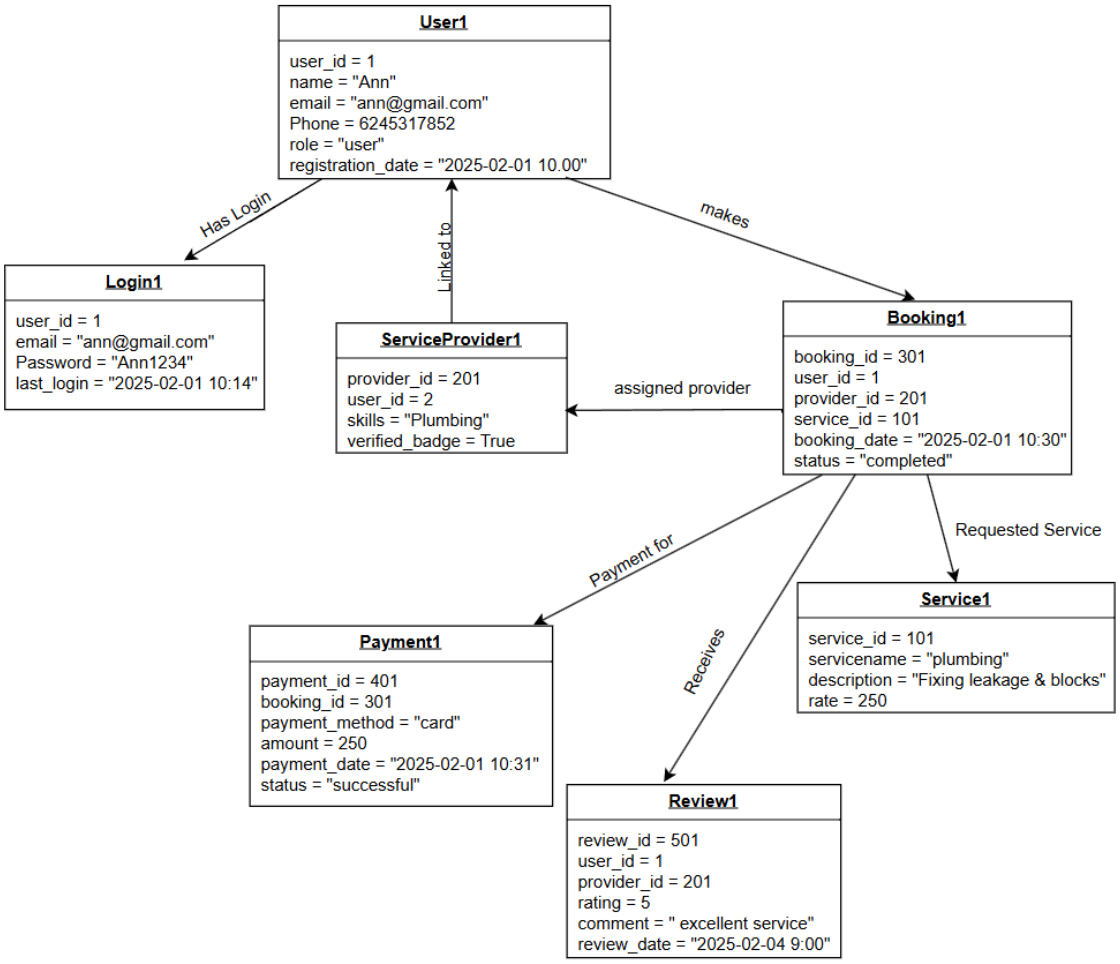
Sl. No.	Fieldname	Datatype(Size)	Key & Constraints	Description
1.	payment_id	INT	Primary Key, AUTO_INCREMENT	Unique identifier for each transaction.
2.	booking_id	INT	Foreign Key, NOT NULL	Linked to the booking for the payment.
3.	user_id	INT	Foreign Key, NOT NULL	ID of the user making the payment.
4.	amount	DECIMAL(10,2)	NOT NULL	Amount paid.
5.	payment_method	ENUM	NOT NULL	Payment method (Card, PayPal, Other).
6.	payment_status	ENUM	DEFAULT 'Pending'	Status of the payment (Pending, Completed, Failed).
7.	payment_date	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Date and time of the payment.

UML Diagrams

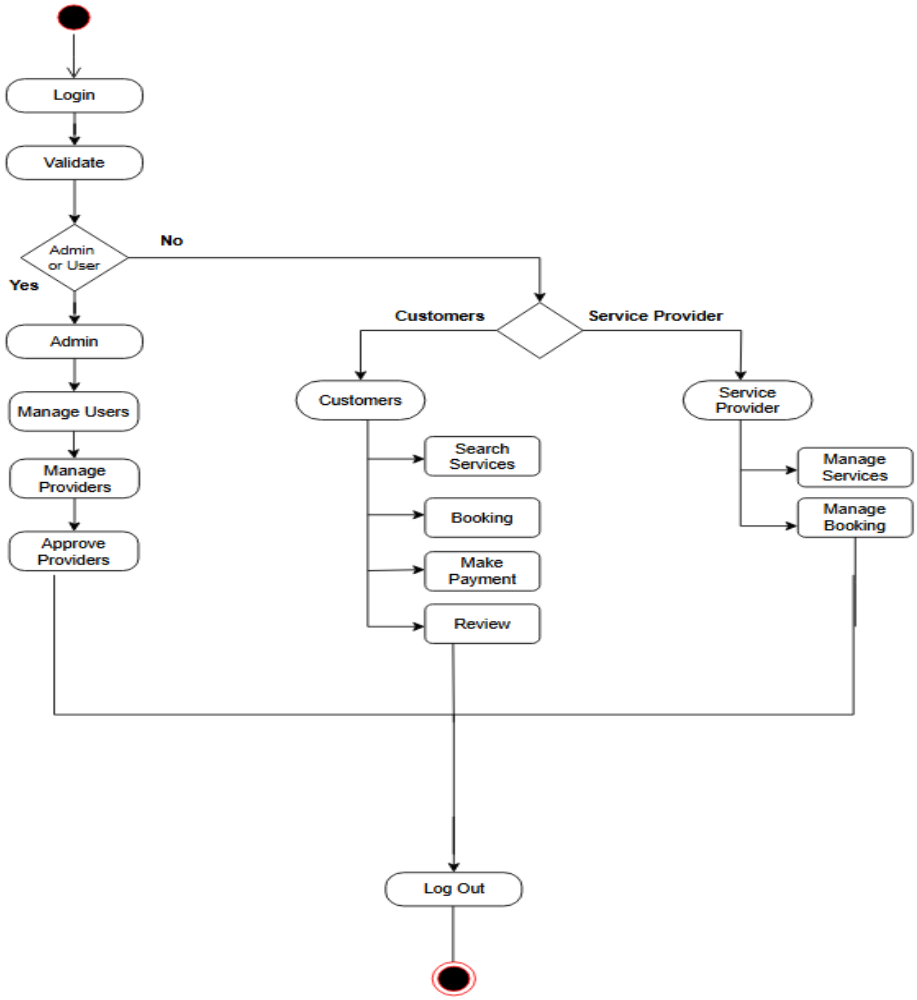
Class Diagram



Object Diagram

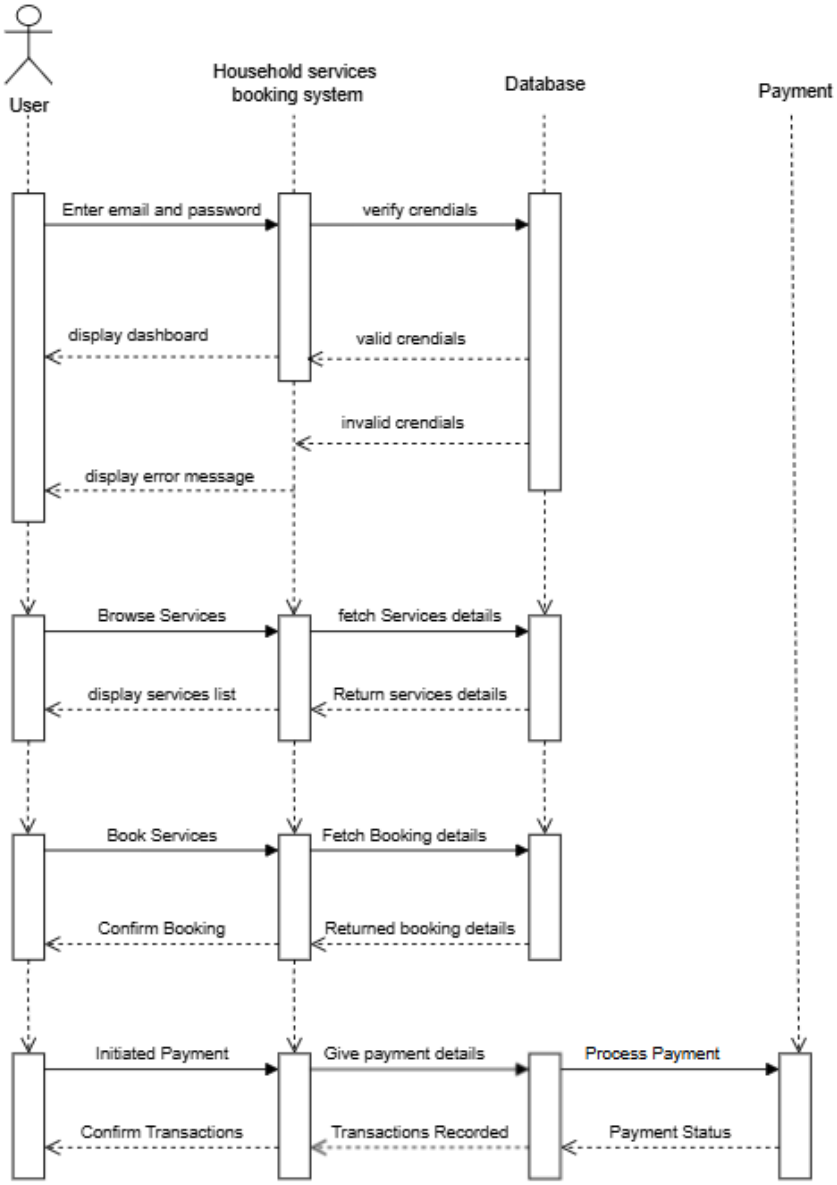


Activity Diagram

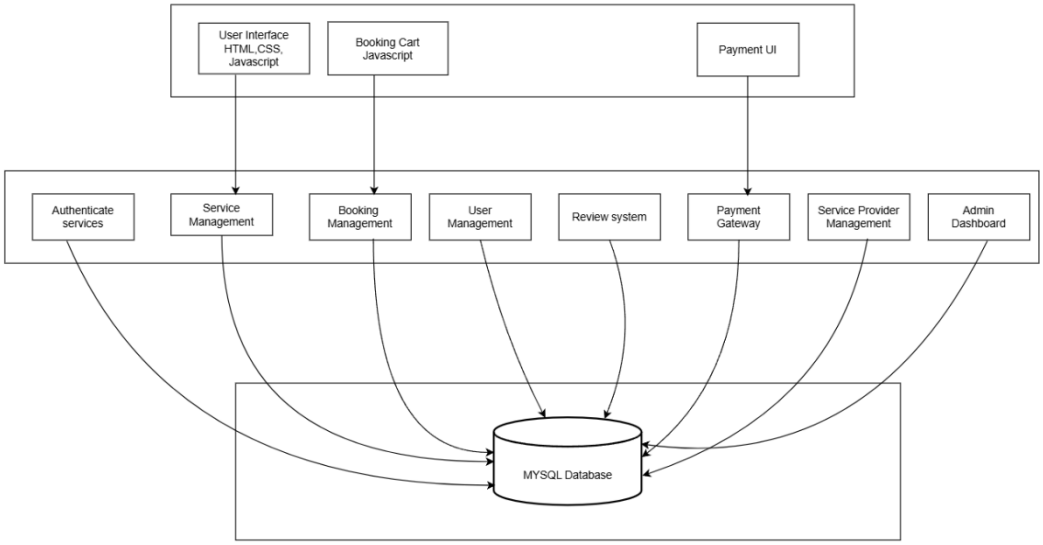


Use case Diagram

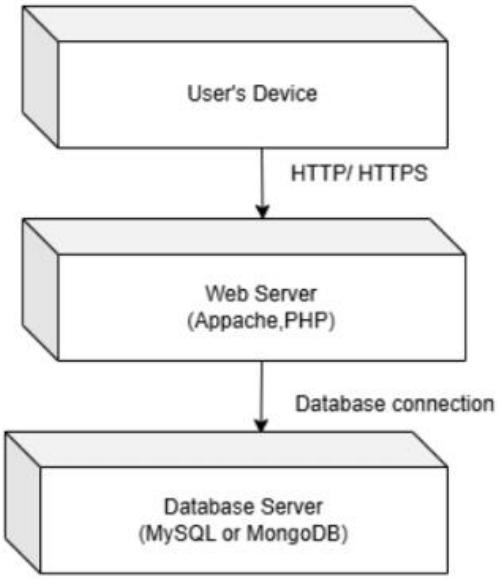
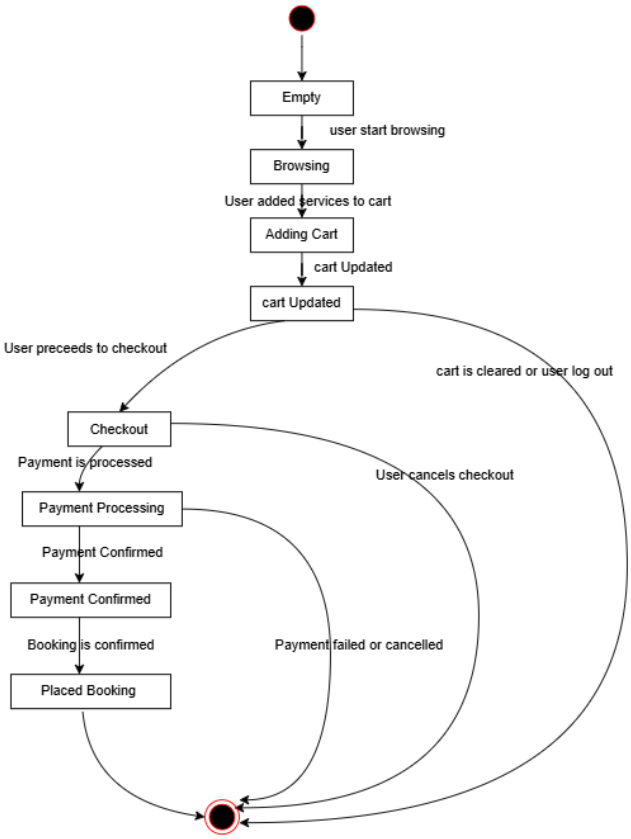
Sequence Diagram



Component Diagram



Deployment Diagram



State chart Diagram