Eventsbridge - Event Booking Platform: Class Definitions with UML Symbols

# User (Abstract)

* + id: int
* + name: string
* + email: string
* - password\_hash: string
* + phone: string
* + created\_at: datetime

# Customer (User)

* + viewServices(): List<+Service>
* + book Service(service\_id: int, event\_date: date, event\_address: string): +Booking
* + make Payment(booking\_id: int): +Payment
* + give Review(booking\_id: int, rating: int, comment: string): void
* + view Booking History(): List<+Booking>
* + skip PaymentAndReviews(): void

# Vendor (User)

* + addService(service: +Service): void
* + remove Service(service\_id: int): void
* + setService Price(service\_id: int, price: float): void
* + confirm Booking(booking\_id: int): void
* + allow And Deny Booking(booking\_id: int): void
* + viewMyServices(): List<+Service>
* + editExistingServices(): void

# Admin (User)

* + addUser(user: +User): void
* + deleteUser(user\_id: int): void
* + manageServices(): List<+Service>
* + view All Users(): List<+User>
* + view All Bookings(): List<+Booking>

# Service

* + id: int
* + service\_name: string
* + vendor\_id: int
* + location\_id: int
* + contact\_number: string
* + price: float
* + average\_rating: float
* + status: string
* + created\_at: datetime

# Location

* + id: int
* + state: string
* + district: string
* + area: string

# Booking

* + id: int
* + service\_id: int
* + customer\_id: int
* + event\_date: date
* + event\_address: string
* + status: string
* + created\_at: datetime

## Class: PaymentService

* + create\_payment(booking\_id: int, amount: float) -> dict
* + verify\_payment(razorpay\_order\_id: str, razorpay\_payment\_id: str, signature: str) -> bool
* + update\_payment\_status(booking\_id: int, status: str) -> None

## Updated Class: Booking

* + initiatePayment(): Payment
* + updatePaymentStatus(status: string): void

## New Class: Payment

* + id: int
* + booking\_id: int
* + razorpay\_order\_id: string
* + payment\_id: string
* + status: string
* + amount: float
* + payment\_date: datetime

# ServiceMedia

* + id: int
* + booking\_id: int
* + amount: float
* + status: string
* + payment\_date: datetime