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#### Title: Booking API Documentation

This documentation details the Booking API endpoints, describing how to use each endpoint with examples of request payloads and responses where applicable.

## **Endpoints:**

#### 1. Create a New Booking

• Endpoint: /bookings/

Method: POST

• Payload Example:

```
{
   "show_id": 1,
   "customer_id": 123,
   "seats": "A1,A2,A3",
   "amount": 1500
}
```

#### • Response Example:

```
"id": 1,
    "show_id": 1,
    "customer_id": 123,
    "seats": "A1,A2,A3",
    "amount": 1500,
    "is_paid": false,
    "is_used": false,
    "datetime": "2023-10-20T14:30:00"
}
```

# 2. Cancel a Booking (and process a refund if paid)

• Endpoint: /bookings/{booking\_id}/

• Method: DELETE

• URL Example: /bookings/1/

• **Response Example:** (Same as the create booking response)

#### 3. Pay for a Booking

• Endpoint: /bookings/{booking\_id}/pay/

• Method: PUT

• URL Example: /bookings/1/pay/

• Response: PDF file of the ticket

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### 4. Validate a Booking/Ticket as Used

• Endpoint: /bookings/{booking\_id}/validate/

• Method: PUT

• URL Example: /bookings/1/validate/

• **Response Example:** (Same as the create booking response)

## 5. Inform All Users with a Booking for a Specific Show about Its Cancellation and Refund

Endpoint: /shows/{show\_id}/cancel/{transaction\_id}

Method: PUT

• URL Example: /shows/1/cancel/txn12345

• Response Example: "10 users affected and notified"

#### 6. Get a Booking by ID

• Endpoint: /bookings/{booking\_id}/

• Method: GET

• URL Example: /bookings/1/

• **Response Example:** (Same as the create booking response)

## 7. Get All Bookings

• Endpoint: /bookings/all

• Method: GET

• Response Example:

```
[
    "id": 1,
    "show_id": 1,
    "customer_id": 123,
    "seats": "A1,A2,A3",
    "amount": 1500,
    "is_paid": true,
    "is_used": false,
    "datetime": "2023-10-20T14:30:00"
    },
    ... (more bookings)
]
```

## 8. Get Bookings by User ID

Endpoint: /bookings/user/{user\_id}/

• Method: GET

• URL Example: /bookings/user/123/

• Response Example: (List of bookings in the format of create booking response)

#### 9. Get All Bookings for a Show

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• Endpoint: /bookings/show/{show\_id}/

• Method: GET

• URL Example: /bookings/show/1/

• Response Example: (List of bookings in the format of create booking response)

## 10. Test Endpoint

Endpoint: /helloMethod: GET

• Response: "Hello World!"

# Idempotency:

• Transaction ID: A unique identifier generated by the sender for transaction-related requests.

• **Idempotency Key:** Generated using get\_idempotency\_key() function for outbound transactions, ensuring that the request is processed only once.

## Data Format:

- All data sent and received is in JSON format unless specified otherwise (like the PDF ticket).
- The correct data structure and format should be maintained as illustrated in the examples above.

This detailed documentation aims to provide a clear understanding of how to interact with the Booking API, ensuring accurate and idempotent transactions.