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# **Endpoints:**

## 1. Create a New Booking

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

• Method: POST

• URL Example: /bookings/txn12345/

• 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}/{transaction\_id}

• Method: DELETE

• URL Example: /bookings/1/txn12345

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

#### 3. Pay for a Booking

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

• Method: PUT

• URL Example: /bookings/1/pay/txn12345

• Response: PDF file of the ticket

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

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

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- Method: PUT
- URL Example: /bookings/1/validate/txn12345
- 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

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

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- Method: GET
- URL Example: /bookings/show/1/
- Response Example: (List of bookings in the format of create booking response)

#### 10. Test Endpoint

• Endpoint: /hello

Method: 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. A check is performed using <a href="mailto:check\_idempotency\_key">check\_idempotency\_key</a>() function for inbound transactions to ensure idempotency.

#### 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.