**Restful Booker Demo Project Constrains**

**Manual**

**1. Booking Form**

| **Field** | **Constraint** |
| --- | --- |
| **First Name** | **Required, alphabetic only, max 50 characters** |
| **Last Name** | **Required, alphabetic only, max 50 characters** |
| **Email** | **Required, must follow valid email format (e.g. name@domain.com)** |
| **Phone** | **Required, numeric, 10–15 digits** |
| **Subject** | **Optional, alphanumeric** |
| **Message** | **Optional, up to 250 characters** |

**2. Booking Room**

* **Form fields are required: name, email, phone, date range, room type.**
* **Success message displayed upon booking.**
* **Booking appears in the booking list (if admin).**
* **Invalid data returns clear error messages.**

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| **First Name** | **Required, alphabetic only, max 50 characters** |
| **Last Name** | **Required, alphabetic only, max 50 characters** |
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| **Phone** | **Required, numeric, 10–15 digits** |

**`**

**3. Admin Login**

* **Login with valid admin credentials.**
* **Redirected to admin dashboard after login.**
* **Invalid credentials return an error.**
* **Admin can see list of all bookings.**

| **Field** | **Constraint** |
| --- | --- |
| **username** | **Required, usually "admin"** |
| **password** | **Required, usually "password123"** |

**4. Check Availability through the API**

**5. Cancel a Booking through the API**

**UI**

**1. Booking Form**

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| --- | --- |
| **First Name** | **Required, alphabetic only, max 50 characters** |
| **Last Name** | **Required, alphabetic only, max 50 characters** |
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| **Phone** | **Required, numeric, 10–15 digits** |
| **Subject** | **Optional, alphanumeric** |
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**4. Check Availability through the API**

**5. Cancel a Booking through the API**

**API**

**1. Booking Room**

* **Form fields are required: name, email, phone, date range, room type.**
* **Success message displayed upon booking.**
* **Booking appears in the booking list (if admin).**
* **Invalid data returns clear error messages.**

| **Field** | **Constraint** |
| --- | --- |
| **firstname** | **Required, alphabetic** |
| **lastname** | **Required, alphabetic** |
| **totalprice** | **Required, numeric only** |
| **depositpaid** | **Required, Boolean (true or false)** |
| **bookingdates → checkin** | **Required, date format yyyy-mm-dd, must not be past date** |
| **bookingdates → checkout** | **Required, date format, must be later than check-in** |
| **additionalneeds** | **Optional, string (e.g. "Breakfast")** |

**2. Admin Login**

* **Login with valid admin credentials.**
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* **Invalid credentials return an error.**
* **Admin can see list of all bookings.**

**Auth API**

| **Field** | **Constraint** |
| --- | --- |
| **username** | **Required, usually "admin"** |
| **password** | **Required, usually "password123"** |

**3. Cancel a Booking**

* **Booking ID and valid auth token required for cancellation.**
* **API returns 201 or 204 on success.**
* **Booking is removed from admin dashboard.**
* **Error shown if booking ID is invalid or already deleted.**

**4. Check Room Availability :**

* **API accepts a valid date range and returns available rooms.**
* **JSON response includes room type, availability status, and price.**
* **Error shown for missing or invalid date parameters.**
* **Response is returned in less than 2 seconds.**