Ahmed Mohamed AbdElbar

Documentation of API

URL : http://localhost:3000

1) Endpoint: "/api/auth/register"

  method: "POST"

  description: "Registers a new user to the system"

  params: {

   "name": "User's full name",

   "email": "User's email address",

   "password": "User's"

  "responses": {

   "201": "User registered successfully",

   "400": "Email already registered"

   }

2) Endpoint   : "/api/auth/login",

   "method" : "POST",

  "description ": "Login to the system and obtain an authentication token",

   "params": {

   "email": "User's email address",

   "password": "User's password"

   },

   "responses": {

   "200": "Token generated",

   "401": "Invalid credentials",

   "404": "User not found"

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3) Endpoint": "/api/bookings",

    "method": "POST",

    "description": "Create a new booking for a laptop",

    "params": {

      "laptop_id": "ID of the laptop to be booked",

      "start_date": "Start date of the booking",

      "end_date": "End date of the booking"

    },

    "responses": {

      "201": "Booking confirmed",

      "400": "Laptop not available"

    }

---

4) Endpoint": "/api/bookings",

    "method": "GET",

    "description": "Get all bookings for the current user",

    "params": {},

    "responses": {

      "200": "List of bookings"

    }

---

5) Endpoint": "/api/bookings/:id/cancel",

    "method": "PUT",

    "description": " Cancel a booking. User can only cancel the booking within a
    specified time window after the booking is made."

    "params": {

      "id": "ID of the booking to be canceled"   }

```
          "body": {

            "reason": "Optional reason for canceling the booking"    }


          "responses": {

            "200": "Booking canceled successfully",

            "400": "Booking cannot be canceled as it is past the allowed
        time window",

            "404": "Booking not found",

            "403": "Only the user who made the booking can cancel it"

          },

          "notes": "The user can cancel the booking only within 10
        minutes of making the booking. After 10 minutes, the
        cancellation option is disable
```

6) Endpoint": "/api/admin/users",

```
        "method": "GET",

        "description": "Get a list of all users (admin only)",

        "params": {},

        "responses": {

          "200": "List of users",

          "403": "Admin role required"

        }
```

7) Endpoint": "/api/admin/users/:id",

```
        "method": "DELETE",

        "description": "Delete a user by ID (admin only)",

        "params": {

          "id": "ID of the user to be deleted"

        },

        "responses": {
```

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```
          "200": "User deleted successfully",

          "404": "User not found"

        }
```

8) Endpoint": "/api/laptops",

```
      "method": "GET",

      "description": "Get a list of all available laptops",

      "params": {},

      "responses": {

        "200": "List of laptops"  }
```

9) Endpoint": "/api/laptops",

```
      "method": "POST",

      "description": "Add a new laptop to the system (admin only)",

      "params": {

        "brand": "Laptop's brand",

        "model": "Laptop's model",

        "cpu": "Laptop's CPU type",

        "ram": "Laptop's RAM size",

        "storage": "Laptop's storage size",

        "daily_price": "Daily rental price",

        "image_url": "Laptop image URL"

      },

      "responses": {

        "201": "Laptop added successfully",

        "403": "Admin role required"

      }
```

10) **Endpoint: "/api/laptops/:id",**

"method": "DELETE",

"description": "Delete a laptop by ID (admin only)",

"params": {

"id": "ID of the laptop to be deleted"

},

"responses": {

"200": "Laptop deleted successfully",

"404": "Laptop not found"}

11) **Endpoint": "/api/auth/forgot-password",**

"method": "POST",

"description": "Send OTP to the user's email address to reset their password (valid for 10 minutes)",

"params": {

"email": "The user's email address"

},

"responses": {

"200": "OTP sent successfully to the user's email",

"404": "User not found",

"500": "Error sending OTP"

}

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12)   Endpoint": "/api/auth/reset-password",

"method": "POST",

"description": "Reset the user's password using the OTP sent to their email (OTP expires in 10 minutes). Rate limit: 1 request per 5 minutes.",

"params": {

"email": "The user's email address",

"otp": "The OTP sent to the user's email",

"newPassword": "The new password"

},

"responses": {

"200": "Password reset successfully",

"400": "Invalid OTP",

"400": "OTP has expired",

"404": "User not found",

"429": "Too many requests, please try again after 5 minutes"

}

13)   Endpoint": /api/admin/users/:id",

"method": "Put",

"description": " Updates a user by ID. Only accessible by admin)",

"params": {

"name": "John Doe",

"email": "john@example.com",

"password": "123456654321",

"role": "admin"or "customer"

},

```json
"responses": {
  "200": "OTP sent successfully to the user's email",
  "404": "User not found",
}
```