

## Restify Backend Documentation

### Apps

Users

Reviews

Properties

Notifications

Media

Booking

### Users app

#### Model:

CustomUser (extends AbstractBaseUser)

- first\_name
- last\_name
- email
- avatar
- phone\_number
- is\_host
- is\_active
- is\_staff
- is\_superuser

#### API endpoints

##### **1. Signup/:**

- a. POST: Signs up a user.

Fields/payload: first\_name, last\_name, phone\_number, email, password, is\_host

Validation errors:

- first\_name: The First Name field must be set
- last\_name: The Last Name field must be set
- phone\_number: The Phone Number field must be set

- email: The Email field must be set

Additional notes: Users cannot have the same email address (email addresses are unique)

## 2. login/token/:

- a. POST: Generates access and refresh token for a valid user who has provided their login credentials.

Fields/payload: email, password

## 3. login/token/refresh/:

- a. POST: Refreshes an existing JSON Web Token (JWT) by generating a new JWT with a fresh expiration time. (does not require the user to log in again with their username and password.)

Fields/payload: old refresh token

## 4. guests/:

- a. GET: LOGIN REQUIRED Shows you all the users who have reserved any of your properties.

## 5. guests/<int:pk>/:

- a. GET: LOGIN REQUIRED Shows you the reviews/comments of a specific user in your guest list based on their id.

## 6. guests/<int:pk>/review/:

- a. POST: LOGIN REQUIRED Allows you to leave a review/comment on a user if you have not reviewed/commented on this user before.

Fields/payload: **rating\_num** (a float from 0 to 5), **comment\_text** (message for the comment/review)

## 7. viewMyProfile/:

- a. GET: LOGIN REQUIRED Logged in user is able to see the details of their personal profile: first\_name, last\_name, phone\_number, email, password, is\_host, avatar.

Fields/payload: None

## 8. editProfile/:

- a. PUT: LOGIN REQUIRED Logged in user is able to edit their profile. They can edit their first\_name, last\_name, phone\_number, password, email, avatar, is\_host fields. (email needs to be unique amongst all users)

Fields/payload: first\_name, last\_name, phone\_number, password, email, avatar, is\_host (Note: all of the fields are OPTIONAL)

#### 9. editProfile/deleteAvatar/:

- a. PUT: LOGIN REQUIRED Deletes avatar associated with logged in user's profile.

Fields/payload: None

#### 10. logout/:

- a. POST: LOGIN REQUIRED Blacklists user's refresh token. (future attempts to use this refresh token to obtain a new access token will fail)

Fields/payload: user's refresh token

#### 11. viewPublicProfile/<str:email>/:

- a. GET: LOGIN REQUIRED Allows logged in user to view the public profile of other users.

Fields/payload: None

Additional notes: email is the email address associated with the public profile to view.

### Properties App

#### Model

##### Property

- Name
- Address\_string
- Address\_city
- Address\_country
- Address\_province
- Address\_postal\_code
- Guest\_num
- Amenities
- Description
- Thumbnail\_img

- owner

#### Image\_Properties

- image
- property

#### Date\_Price\_Properties

- start\_date
- end\_date
- pricing
- property

### API endpoints

1. '':
  - a. **GET:** Shows all available properties
    - i. Filters Available by following: 'address\_city', 'address\_province', 'address\_country', 'name', 'guest\_num', 'amenities', 'from/to'. Use ?query=a&query=b
    - ii. Ordering available by 'current\_price', 'guest\_num'
2. <int:pk>/:
  - a. **GET:** given PK, get property details
3. <int:pk>/aux/:
  - a. **GET:** get all images in property's gallery.
4. <int:pk>/aux/manage/:
  - a. **PUT:** LOGIN REQUIRED add image. Must include form fields which are identical to the above image class, except the property FK is blank.
  - b. **DELETE:** LOGIN REQUIRED delete image. Include image pk in header.
5. <int:pk>/prices/:
  - a. **GET:** get all prices in the property's price list.
6. <int:pk>/prices/manage/:
  - a. **PUT:** LOGIN REQUIRED add a price in property prices. Must include form fields which are identical to Date Price class properties, except the property FK doesn't need to be filled out.
  - b. **DELETE:** LOGIN REQUIRED to remove a price segment. Supply previous pricing PK in header.
7. create/:
  - a. **POST:** LOGIN REQUIRED Must supply all fields of Property in form. Creates property.
8. <int:pk>/edit/:

- a. **PUT:** LOGIN REQUIRED Edits property detail and allowed if user is the owner. Must supply form fields: all fields in the property class model, except the owner FK.
  - b. **DELETE:** LOGIN REQUIRED Deletes if the user is the property's owner. Must include to\_delete in header.
9. <int:pk>/bookings/:
- a. **GET:** LOGIN REQUIRED Get bookings for the property, if the user logged in is the owner
10. <int:pk>/book/:
- a. **PUT:** LOGIN REQUIRED Must supply form fields: all fields in booking class to book a property, except client FK. Must be logged in!
11. <int:pk>/reviews/:
- a. **GET:** Gives you all the reviews on the property with id 'pk'.
12. <int:pk>/review/:
- a. **POST:** LOGIN REQUIRED Allows you to leave a review on this property if you have completed or terminated a reservation on this property, also, you can only leave one review.  
  
(Payload: rating\_num (a float from 0 to 5), comment\_text (message for the comment/review))
13. <int:pk>/reviews/<int:n>/:
- a. **GET:** Allows you to see the follow up responses to a review (the host reply and the user's reply to the host).
14. <int:pk>/reviews/<int:n>/reply/:
- a. **POST:** LOGIN REQUIRED Allows you to post a reply to the user's comments if you are a host or, allows you to reply to the host's reply.  
(Payload: comment\_text (message for the comment/review))

## Bookings App

### Model

#### Booking

- Client
- Property\_booking
- Billing\_address\_string
- Billing\_address\_city
- Billing\_address\_country
- Billing\_address\_province
- Billing\_address\_postal\_code
- Start\_date

- End\_date
- Invoice\_cost
- state

### API endpoints

1. /
  - a. **GET:** LOGIN REQUIRED
    - i. Filters Available by following: 'type=host/guest', state
2. <int:pk>/:
  - a. **GET:** LOGIN REQUIRED Gets booking by pk and shows it if the user is the booking property's owner or if the user is the client.
3. <int:pk>/edit/:
  - a. **PUT:** LOGIN REQUIRED edits booking by pk and shows it if the user is the booking property's owner or if the user is the client. If the user is the client, they are limited only to be able to 'RequestCancel'. Must supply form fields: all fields in the booking class model, except the owner FK.

### Reviews App

#### Model

##### Comment

- Rating\_num
- Comment\_text
- Reviewer
- Is\_followup
- Comment\_type
- Comment\_id
- Content\_object
- Your\_reply
- owner\_reply

### Notification App

#### Model

##### Notifications

- Recipient
- Details
- Read
- Notification\_type
- Notification\_id

- Content\_object

#### API endpoints

1. list/
  - a. **GET:** LOGIN REQUIRED Gives you a list of all your notifications.
2. list/<int:n>/
  - a. **GET:** LOGIN REQUIRED Lets you read the message of a specific notification given its id 'n'.