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Restify

1.0.0

OAS3

Documentation with a full list of API endpoints, a short description, their methods, and the payloads. Note that the Simple JWT Token is required for each endpoint unless otherwise stated.

Requirements: Minimum of Python 3.10 and pip installation. startup.sh and run.sh both require chmod +x, but startup.sh must be run as "source ./startup.sh".

Servers

`http://127.0.0.1:8000`

api SimpleJWT Token Authentication

**POST** `/api/token/` Get an authenticated user's token for authentication

Get an authenticated user's token for authentication

Parameters

[Try it out](#)

No parameters

Request body required`application/json`

Get an authenticated user's token for authentication

Example Value [Schema](#)

```
{  
  "username": "string",
```

```
"password": "string"
}
```

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "refresh": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoicmVmcmVzaCI6ImV4cCI6MTY3ODE0NzU1MSwiaWF0IjoxNjc4MDYxMTUxLCJqdGkiOiI0NjVhYzE0N2Y4YjU0ZmE4Yjc5NWUiZTUwNjhlMzMwMiIsInVzZXJfawQiOiJF9.vsSMYm-hwcyuOCQ7uEjGqSCVZhu32G6RxuSc5FEblw8", "active": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoieWJZNXNzIiwiaXhwIjoxNjc4MTQ3NTUxLCJpYXQiOiJlNzgwNjExNTEsImp0aSI6ImUxZDRmMjY2NmNmYzRlOTQ5YzY4OWE0NGMzYTk3OGFiIiwidXN1c19pZCI6MX0.hAc3sXuZMC_WikNPIUOb_kDz4iNWE7dehlmimeeDqx8" }</pre>	No links
401	<p>Unauthorized operation (Can also have "Authentication credentials were not provided.")</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "detail": "Token is invalid or expired", "code": "token_not_valid" }</pre>	No links

POST /api/token/refresh/ Refresh an user's token for authentication



Refresh an user's token for authentication

Parameters

Try it out

No parameters

Request body required

application/json

Refresh an user's token for authentication. Can optionally also pass in access token.

Example Value Schema

```
{
  "refresh": "string"
}
```

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <p>application/json</p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "active": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1Ijo1YW NjZXNzIiwiaXhwIjo4MTQ3NTUxLCJpYXQiOiE2NzgwNjExNTEsImp0aSI6ImUxZDRmMj Y2NmNmYzRlOTQ5YzY4OWE0NGMzYTk3OGFiIiwidXN1c19pZCI6MX0.hAc3sXuZMC_WikNPIU Ob_kDz4iNWE7dehlmimeeDqx8" }</pre>	No links
401	<p>Unauthorized operation (Can also have "Authentication credentials were not provided.")</p> <p>Media type</p> <p>application/json</p> <p>Example Value Schema</p> <pre>{ "detail": "Token is invalid or expired", "code": "token_not_valid" }</pre>	No links



GET /accounts/{acc_type}/all/ Get all users of type acc_type



Get all users of type acc_type

Parameters

Try it out

Name Description

acc_type * required

The account type. Must be one of User or Host (casing does not matter).

string

(path)

acc_type

Responses

Code	Description	Links
200	Successful operation	No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": [
    {
      "username": "TestUser",
      "first_name": "First",
      "last_name": "Last",
      "email": "test@gmail.com",
      "phone_number": "4169997777",
      "account_type": "Host",
      "avatar": "/media/avatars/me.png"
    }
  ]
}
```

Code	Description	Links
	<pre>] }</pre>	
401	Unauthorized operation	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "Unauthorized access" }</pre>	
404	Not found operation	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "No users found" }</pre>	

POST /accounts/create Create a user ^

Create a user

Parameters

Try it out

No parameters

Request body **required**

application/json

Create a user

Example Value Schema

```
{
  "username": "string | Unique",
```

```
"password": "string | Must must password2 | Must be > 8 characters",
"password2": "string | Must must password | Must be > 8 characters",
"email": "user@example.com",
"phone_number": "string | Must be 10 characters",
"account_type": "string | Must be either User or Host",
"first_name": "string",
"last_name": "string"
}
```

Responses

Code	Description	Links
201	<div>Successful operation</div> <div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "data": [{ "username": "TestUser", "email": "test@gmail.com", "phone_number": "4169997777", "account_type": "Host", "first_name": "First", "last_name": "Last" }] }</pre></div>	No links
400	<div>Bad request operation (Error messages differ given validation error)</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "password": "Password does not match Password2" }</pre></div>	No links
401	<div>Unauthorized operation</div>	No links

Code	Description	Links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "details": "Authentication credentials were not provided." }</pre></div>	
POST	/accounts/login Login user	^
Does not require authentication.		
Parameters		Try it out
No parameters		
Request body	required	application/json
<div>Login user</div> <div>Example Value Schema</div> <div><pre>{ "username": "string", "password": "string" }</pre></div>		
Responses		
Code	Description	Links
200	Successful operation	No links
	<div>Media type</div> <div>application/json</div>	

Code	Description	Links
<div>Controls Accept header.</div> <div><div>Example Value</div><div>Schema</div></div> <div><pre>{ "message": "success", "data": [{ "username": "TestUser", "password": "password123", "first_name": "First", "last_name": "Last", "email": "test@gmail.com", "phone_number": "4169997777", "account_type": "Host", "avatar": "/media/avatars/me.png" }], "token": { "access": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1Ijo1YWNjZXNzIiwiaXhwIjoxNjc4MTQ3NTUxLCJpYXQiOjE2NzgwNjExNTEsImp0aSI6ImUxZDRmMjY2NmNmYzRlOTQ5YzY4OWE0NGMzYTk3OGFiIiwidXNlc19pZCI6MX0.hAc3sXuZMC_WikNPIUOb_kDz4iNWE7dehlmimeeDqx8", "refresh": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoicmVmcmVzaCI6ImV4cCI6MTY3ODMxODI2OSwiaWF0IjoxNjc4MjMxODY5LCJqdGkiOiI2ODhiOGVjNzk3MTc0ODEzYjd1MTYxOWRlYmVhMzRjMCI6InVzZXJfaWQiOjR9.e19hP5e8yawhA4YhcuqsZ40tgAEaXD3R1ukKLUiqY1Q" } }</pre></div> <div>400</div> <div>Bad request operation</div> <div>No links</div> <div><div>Media type</div><div><div>application/json</div></div><div><div>Example Value</div><div>Schema</div></div><div><pre>{ "password": "Invalid username and password combination" }</pre></div></div>		
POST	/accounts/logout Logout user	⤴
Logout user		
Parameters		<div>Try it out</div>
No parameters		

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "message": "success", "details": "User logged out successfully" }</pre>	No links
400	<p>Bad request operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "error", "details": "User is already logged out" }</pre>	No links

Code	Description	Links
401	Unauthorized operation	No links
<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "detail": "Given token not valid for any token type", "code": "token_not_valid", "messages": [{ "token_class": "AccessToken", "token_type": "access", "message": "Token is invalid or expired" }]}</pre>		

GET

/accounts/{username}/

Get a user by username

^

Get a user by username

Parameters

Try it out

Name	Description
username * required	The username of the user to be queried for.
string (path)	<div>username</div>

Responses

Code	Description	Links
200	Successful operation	No links

Code	Description	Links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "data": { "username": "TestUser", "first_name": "Test", "last_name": "User", "email": "testuser@gmail.com", "phone_number": "4169997777", "account_type": "User", "avatar": "media/avatar.png/" } }</pre></div>	
401	<div>Unauthorized operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Unauthorized access" }</pre></div>	No links
404	<div>Not found operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Invalid user or user not found" }</pre></div>	No links
DELETE	/accounts/{username}/ Delete a user by username	⤴
Delete a user by username		

Parameters

[Try it out](#)

Name	Description
------	-------------

username * required

The username of the user to be queried for.

string

(path)

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "details": "User has been successfully deleted"
}
```

401

Unauthorized operation

No links

Media type

application/json

Example Value Schema

```
{
  "message": "error",
  "details": "Unauthorized access"
}
```

403

Forbidden operation (Attempting to delete someone else's account)

No links

Media type

application/json

Code	Description	Links
	Example Value Schema	
	<pre>{ "message": "error", "details": "Cannot delete another user" }</pre>	

PATCH `/accounts/{username}/update/` Update a user by username ^

Update a user by username

Parameters

Try it out

Name	Description
username * required	The username of the user to be queried for.
string (path)	<div>username</div>

Request body required

application/json

Note - If password is provided, password2 must also be provided.

Example Value Schema

```
{
  "email": "Optional[str]",
  "phone_number": "Optional[str]",
  "account_type": "Optional[str]",
  "avatar": "Optional[ImageFile]",
  "password": "Optional[str]",
  "password2": "Optional[str]"
}
```

Responses

Code	Description	Links
200	<p>Successful operation. Password will never be sent in request body containing updated fields.</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "message": "success", "data": { "email": "testuser@gmail.com", "phone_number": "4169997777", "avatar": "media/avatar.png/" } }</pre>	No links
400	<p>Bad request operation. Another potential message is "Avatar should not have multiple files".</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "error", "details": "Invalid key in body" }</pre>	No links
401	<p>Unauthorized operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "error", "details": "Unauthorized access" }</pre>	No links
403	<p>Forbidden operation (Attempting to update someone else's account).</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p>	No links

Code	Description	Links
	<pre>{ "message": "error", "details": "Cannot edit another user's profile" }</pre>	

GET	/accounts/avatar/{username}/ Get an user's avatar by username	^
-----	---	---

Get an user's avatar by username

Parameters

Try it out

Name	Description
username * required string (path)	The username of the user to be queried for. <div>username</div>

Responses

Code	Description	Links
200	Successful operation. Does not return a JSON. Actually directly returns an image. Media type <div>image/png</div> Controls Accept header. Example Value media/image_url.png	No links
400	Bad request operation. Another potential message is "Avatar should not have multiple files". Media type	No links

Code	Description	Links
	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Invalid key in body"}</pre></div>	
401	Unauthorized operation	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Unauthorized access"}</pre></div>	
404	Not found operation (Attempting to fetch a non-existent user's avatar). Likewise, if no avatar exists, then can also be "No avatar associated with user".	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Invalid user or user not found"}</pre></div>	

comments

Operations about Restify Comments



GET	/comments/{id}/	Get the comment by id	⌵
Get the comment by id			
Parameters	<div>Try it out</div>		

Name	Description
------	-------------

id * required

string

(path)

The id of the comment to be queried for.

id

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "id": 1,
    "message": "I had a great time at John's place",
    "comment_type": "property",
    "sender_type": "guest",
    "last_modified": "2023-03-05 18:21:25"
  }
}
```

401

Unauthorized operation

No links

Media type

application/json

Example Value Schema

```
{
  "message": "error",
  "details": "User is not authenticated"
}
```

404

Not found operation

No links

Media type

Code	Description	Links
	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Comment not found" }</pre></div>	

POST	/comments/create/ Create a comment	^
Create a comment		
Parameters		Try it out
No parameters		
Request body		application/json
Create a comment		
Example Value	Schema	
<pre>{ "message": "string", "property_id": "string Must supply this or guest_id", "guest_id": "string Must supply this or property_id", "property_rating": "float Maximum 5.0, optional", "user_rating": "float Maximum 5.0, optional", "reservation_id": "string Optional" }</pre>		
Responses		
Code	Description	Links
201	Successfully created operation	No links

Code**Description****Links**

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "id": 1,
    "message": "I had a great time at John's place",
    "comment_type": "property",
    "sender_type": "guest",
    "last_modified": "2023-03-05 18:21:25",
    "rating": 4.5
  }
}
```

400

Bad request operation (error message varies)

No links

Media type

application/json**Example Value** Schema

```
{
  "message": "Property or guest not specified"
}
```

401

Unauthorized operation (error message varies)

No links

Media type

application/json**Example Value** Schema

```
{
  "message": "error",
  "details": "User is not authenticated"
}
```

403

Forbidden operation (error message varies)

No links

Media type

application/json**Example Value** Schema

Code	Description	Links
	<pre>{ "message": "error", "details": "User has not completed a reservation at this property" }</pre>	
404	Not found operation (error message varies)	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "Guest not found" }</pre>	

GET

/comments/{id}/allPropertyFeedbackComments/

Get all guests' primary comments

⌵

Get all guests' primary comments of a property

Parameters

Try it out

Name	Description
<div><div>id</div><div>* required</div></div>	The id of the property to be queried for.
<div>string</div> <div>(path)</div>	<div>id</div>

Responses

Code	Description	Links
200	Successful operation	No links
	Media type	

Code	Description	Links
	<div>application/json</div> <div>Controls Accept header.</div> <div><div>Example Value</div><div>Schema</div></div> <div><pre>{ "message": "success", "data": [{ "id": 1, "message": "I had a great time at John's place", "comment_type": "property", "sender_type": "guest", "last_modified": "2023-03-05 18:21:25", "property_rating": 4.5 }] }</pre></div>	
401	<div>Unauthorized operation</div> <div>Media type</div> <div>application/json</div> <div><div>Example Value</div><div>Schema</div></div> <div><pre>{ "message": "error", "details": "User is not authenticated" }</pre></div>	No links
404	<div>Not found operation</div> <div>Media type</div> <div>application/json</div> <div><div>Example Value</div><div>Schema</div></div> <div><pre>{ "message": "error", "details": "Property not found" }</pre></div>	No links
GET	/comments/{id}/allGuestFeedbackComments/ Get all owners' primary comments	⌵
Get all property owners' primary comments of a guest		

Parameters

[Try it out](#)

Name	Description
------	-------------

id * required

The id of the guest to be queried for.

string

(path)

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": [
    {
      "id": 1,
      "message": "It was a pleasure to host John",
      "comment_type": "guest",
      "sender_type": "host",
      "last_modified": "2023-03-05 18:21:25",
      "user_rating": 4.5
    }
  ]
}
```

401

Unauthorized operation

No links

Media type

application/json

Example Value Schema

```
{
  "message": "error",
```

Code	Description	Links
	<pre>"details": "User is not authenticated" }</pre>	
403	Forbidden operation	No links
	Media type <div>application/json</div>	
	Example Value Schema	
	<pre>{ "message": "error", "details": "User is not a guest of the requesting user" }</pre>	
404	Not found operation (error message varies)	No links
	Media type <div>application/json</div>	
	Example Value Schema	
	<pre>{ "message": "error", "details": "User not found" }</pre>	

GET	/comments/{id}/propertyConversationComments/	Get property conversation	^
Get property conversation comments of a reservation			
Parameters			Try it out
Name	Description		
id * required	The id of the reservation to be queried for.		
string (path)	<div>id</div>		

Responses

Code	Description	Links
200	<div>Successful operation</div> <div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "data": [{ "id": 1, "message": "I had a great time at John's place", "comment_type": "property", "sender_type": "guest", "last_modified": "2023-03-05 18:21:25" }]}</pre></div>	No links
401	<div>Unauthorized operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "User is not authenticated"}</pre></div>	No links
403	<div>Forbidden operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "User is not a host or guest for the reservation"}</pre></div>	No links
404	<div>Not found operation</div>	No links

Code	Description	Links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Reservation not found" }</pre></div>	

GET	/comments/{id}/guestConversationComments/ Get guest conversation	^
Get guest conversation comments of a reservation		
Parameters		Try it out
Name	Description	
id * required	The id of the reservation to be queried for.	
string (path)	<div>id</div>	
Responses		
Code	Description	Links
200	Successful operation	No links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "data": [</pre></div>	

Code	Description	Links
	<pre> { "id": 1, "message": "It was a pleasure to host John", "comment_type": "guest", "sender_type": "host", "last_modified": "2023-03-05 18:21:25", "user_rating": 4.5 }] } </pre>	
401	<p>Unauthorized operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "details": "User is not authenticated" } </pre>	No links
403	<p>Forbidden operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "details": "User is not a host or guest for the reservation" } </pre>	No links
404	<p>Not found operation (error message varies)</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "details": "User not found" } </pre>	No links
GET	/comments/{id}/ratings/ Get a reservations' ratings	⤴

Get the property and user ratings of a reservation

Parameters

Try it out

Name	Description
------	-------------

id * required

The id of the reservation to be queried for.

string

(path)

id

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "property_rating": 4.5,
    "user_rating": 4.7
  }
}
```

401

Unauthorized operation

No links

Media type

application/json

Example Value Schema

```
{
  "message": "error",
```

Code	Description	Links
	<pre>"details": "User is not authenticated" }</pre>	
404	Not found operation (error message varies)	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "Reservation not found" }</pre>	

notifications

Operations about Restify Notifications



GET	/notifications/{id}/	Get the notification by id	⌵
Get the notification by id			
Parameters		Try it out	
Name	Description		
id * required	The id of the notification to be queried for.		
string (path)	<div>id</div>		
Responses			
Code	Description	Links	
200	Successful operation	No links	

Code	Description	Links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "data": { "id": 1, "title": "New Comment", "description": "Someone commented on your property!", "url": "someurl.com", "status": "Unread", "user_id": 1, "host_id": 2 } }</pre></div>	
401	<div>Unauthorized operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "User is not authenticated" }</pre></div>	No links
404	<div>Not found operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Notification not found" }</pre></div>	No links
POST	/notifications/create/ Create a notification	⤴
Create a notification		

Parameters

[Try it out](#)

No parameters

Request body

[application/json](#)

Create a notification

Example Value Schema

```
{
  "title": "string",
  "description": "string",
  "url": "string | Optional",
  "status": "string",
  "user_id": "integer",
  "host_id": "integer"
}
```

Responses

Code	Description	Links
201	Successfully created operation	No links

Media type

[application/json](#)

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "id": 1,
    "title": "New Comment",
    "description": "Someone commented on your property!",
    "url": "someurl.com",
    "status": "Unread",
    "user_id": 1,
    "host_id": 2
  }
}
```

Code	Description	Links
400	<div>Bad request operation (error message varies)</div> <div>Media type<div>application/json</div></div> <div>Example ValueSchema</div> <div><pre>{ "message": "Missing fields" }</pre></div>	No links
401	<div>Unauthorized operation</div> <div>Media type<div>application/json</div></div> <div>Example ValueSchema</div> <div><pre>{ "message": "User is not authenticated" }</pre></div>	No links
404	<div>Not found operation (error message varies)</div> <div>Media type<div>application/json</div></div> <div>Example ValueSchema</div> <div><pre>{ "message": "Notification not found" }</pre></div>	No links
<div><div>PATCH</div><div>/notification/{id}/update/</div><div>Update the notification</div><div>⌵</div></div>		
<div>Update the notification</div>		
Parameters		<div>Try it out</div>

Name Description

id * required

The id of the notification to be queried for.

string

(path)

id

Request body **required**

application/json

Update the notification

Example Value Schema

```
{
  "title": "string",
  "description": "string",
  "url": "string | Optional",
  "status": "string",
  "user_id": "integer",
  "host_id": "integer"
}
```

Responses

Code	Description	Links
200	Successful operation	No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "id": 1,
    "title": "New Comment",
    "description": "Someone commented on your property!",
    "url": "someurl.com",
    "status": "Read",
    "user_id": 1,
    "host_id": 2
  }
}
```


Code	Description	Links
	<pre>} }</pre>	
400	<p>Bad request operation (error message varies)</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "Missing fields" }</pre>	No links
401	<p>Unauthorized operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "User not authenticated" }</pre>	No links
404	<p>Not found operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "Notification not found" }</pre>	No links
GET	/notifications/all/ Get user's notifications	^
Get user's notifications		
Parameters		Try it out

No parameters

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "message": "success", "data": [{ "id": 1, "title": "New Comment", "description": "Someone commented on your property!", "url": "someurl.com", "status": "Unread", "user_id": 1, "host_id": 2 }] }</pre>	No links
401	<p>Unauthorized operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "User not authenticated" }</pre>	No links

DELETE /notifications/{id}/delete/ Delete the notification



Delete the notification

Parameters

Try it out

Name	Description
------	-------------

id * required

The id of the notification to be queried for.

string

(path)

id

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "Notification successfully deleted"
}
```

401

Unauthorized operation (error message varies)

No links

Media type

application/json

Example Value Schema

```
{
  "message": "User not authenticated"
}
```

404

Not found operation

No links

Code	Description	Links
	<div>Media type</div> <div>application/json</div>	
	<div>Example Value</div> <div>Schema</div> <div><pre>{ "message": "Notification not found" }</pre></div>	

property

Operations about Restify Properties



GET	/property/{id}/	Get the property by id	^
Get the property by id			
Parameters			Try it out
Name	Description		
id * required	The id of the property to be queried for.		
string (path)	id		
Responses			
Code	Description	Links	
200	Successful operation	No links	
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div>		
	<div>Example Value</div> <div>Schema</div>		

Code	Description	Links
	<pre>{ "message": "success", "data": { "id": 5, "title": "The Lodge", "location": "Toronto", "description": "Big lodge with big potential.", "max_number_of_guests": 9, "price": 25.42, "amenities": "Pool,Kayaking,Lake" } }</pre>	
401	Unauthorized operation	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "Unauthorized access" }</pre>	
404	Not found operation	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "message": "error", "details": "Property not found" }</pre>	
PATCH	<div>/property/{id}</div> <div>/update/</div> <div>Update property and its images. Upon uploading images, all current images will be wiped.</div>	<div>⌵</div>
Update property and its images. Upon uploading images, all current images will be wiped.		
Parameters		<div>Try it out</div>

Name	Description
------	-------------

id * required

The id of the property to be queried for.

string

(path)

Request body required

application/json

Update property and its images. Upon uploading images, all current images will be wiped.

Example Value Schema

```
{
  "title": "Optional[str]",
  "location": "Optional[str]",
  "description": "Optional[str]",
  "max_number_of_guests": "Optional[int]",
  "price": "Optional[float]",
  "amenities": "Optional[Comma-seperated string (no spaces)]",
  "images": "Optional[ImageFile] - (0-N)"
}
```

Responses

Code	Description	Links
------	-------------	-------

200

Successful operation (only sends updated fields)

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "max_number_of_guests": 9,
    "price": 25.42,
    "amenities": "Pool,Kayaking,Lake",
    "images": [
      "/media/property/TestProp2-20191028_232439.jpg",
      "/media/property/TestProp2-Annotation_2019-10-17_183643.png"
    ]
  }
}
```

Code	Description	Links
	<pre>] } }</pre>	
400	<p>Bad request operation (error message varies)</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "amenities": "Amenities is not formatted as a comma-seperated list" }</pre>	No links
401	<p>Unauthorized operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "details": "User that is not a Host has no properties" }</pre>	No links
403	<p>Forbidden operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error", "details": "Cannot edit another host's property" }</pre>	No links
404	<p>Not found operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre> { "message": "error",</pre>	No links

Code	Description	Links
	<pre>"details": "Property with id: 12 does not exist" }</pre>	

DELETE	/property/{id}/delete/ Delete property and its images.	⤴
---------------	---	---

Delete property and its images.

Parameters

Try it out

Name	Description
id * required	The id of the property to be queried for.
string (path)	<div>id</div>

Responses

Code	Description	Links
200	Successful operation	No links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "message": "success", "details": "Property successfully deleted" }</pre></div>	
401	Unauthorized operation	No links
	<div>Media type</div> <div>application/json</div>	

Code	Description	Links
	Example Value Schema	
	<pre>{ "message": "error", "details": "User that is not a Host has no properties" }</pre>	
403	Forbidden operation	No links
	Media type	
	application/json	
	Example Value Schema	
	<pre>{ "message": "error", "details": "Cannot delete another host's property" }</pre>	
404	Not found operation	No links
	Media type	
	application/json	
	Example Value Schema	
	<pre>{ "message": "error", "details": "Property with id: 12 does not exist" }</pre>	

POST

/property/create/ Create property with no images

^

Create property with no images

Parameters

Try it out

No parameters

Request body

application/json

Create property with no images

Example Value Schema

```
{
  "title": "string",
  "location": "string",
  "description": "string",
  "max_number_of_guests": "integer",
  "price": "float",
  "amenities": "Comma-seperated string (no spaces)"
}
```

Responses

Code	Description	Links
201	Successfully created operation	No links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <pre>{ "message": "success", "data": { "id": 12, "title": "The Lodge", "location": "Toronto", "description": "Some property", "max_number_of_guests": 5, "price": 121, "amenities": "Kayaking,Lake" } }</pre>	
400	Bad request operation (error message varies)	No links
	<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <pre>{ "amenities": "Amenities is not formatted as a comma-seperated list" }</pre>	

Code	Description	Links
401	Unauthorized operation	No links
<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "User that is not Host cannot create a property"}</pre></div>		

GET	/property/search/ Get all properties (0 to N objects returned)	^
<p>Sorting and filtering is possible.</p> <p>Filter by "amenities", "location", "max_number_of_guests", "max_price", "min_price", "title", "start_availability", "end_availability" as the keys.</p> <p>Sort by "id", "title", "location", "max_number_of_guests", "price" as the value and "sort" as the key (can only sort by 1).</p> <p>Order with either "asc" or "desc" as the value and "order_by" as the key.</p>		
Parameters		Try it out
Name	Description	
page integer (query)	The page for the pagination query. Required if page_size is specified.	page
page_size integer (query)	The page size for the pagination query. Not required.	page_size
Responses		

Code	Description	Links
200	<div>Successful operation</div> <div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "count": 1, "next": null, "previous": null, "results": [{ "id": 5, "title": "The Lodge", "location": "Toronto", "description": "Big lodge with big potential.", "max_number_of_guests": 9, "price": 25.42, "amenities": "Pool,Kayaking,Lake", "host": 1 }] }</pre></div>	No links
401	<div>Unauthorized operation</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "detail": "Token is invalid or expired", "code": "token_not_valid" }</pre></div>	No links
GET	/property/allHostProperty/ Get all properties (0 to N objects returned)	⤴
Get all properties (0 to N objects returned)		
Parameters	Try it out	

Name	Description
page integer (query)	The page for the pagination query. Required if page_size is specified. <div>page</div>
page_size integer (query)	The page size for the pagination query. Not required. <div>page_size</div>

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "count": 1, "next": null, "previous": null, "results": [{ "id": 5, "title": "The Lodge", "location": "Toronto", "description": "Big lodge with big potential.", "max_number_of_guests": 9, "price": 25.42, "amenities": "Pool,Kayaking,Lake", "host": 1 }] }</pre>	No links
400	<p>Bad request operation</p> <p>Media type</p>	No links

Code	Description	Links
	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "User that is not a Host has no properties"}</pre></div>	
401	<div>Unauthorized operation (Can also have "Authentication credentials were not provided.")</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "detail": "Token is invalid or expired", "code": "token_not_valid"}</pre></div>	No links

reservations

Operations about Restify Reservations



GET	/reservations/{id}/	Get the reservation by id	⌵
Get the reservation by id			
Parameters			Try it out
Name	Description		
id * required	The id of the property to be queried for.		
string (path)	<div>id</div>		
Responses			

Code**Description****Links**

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "id": 5,
    "start_date": "2022-05-25",
    "end_date": "2022-05-27",
    "status": "Pending",
    "feedback": null,
    "user": 1,
    "property": 1
  }
}
```

401

Unauthorized operation

No links

Media type

application/json**Example Value** Schema

```
{
  "message": "error",
  "details": "Unauthorized access"
}
```

404

Not found operation

No links

Media type

application/json**Example Value** Schema

```
{
  "message": "error",
  "details": "Reservation not found"
}
```

GET**/reservations/all/** Get all reservations (0 to N objects returned)

Get all reservations (0 to N objects returned)

Parameters

[Try it out](#)

Name

Description

page

The page for the pagination query. Required if page_size is specified.

integer

(query)

page_size

The page size for the pagination query. Not required.

integer

(query)

Responses

Code

Description

Links

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 5,
      "start_date": "2022-05-25",
      "end_date": "2022-05-27",
      "status": "Pending"
    }
  ]
}
```


Code	Description	Links
400	<p>Bad request operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "error", "details": "" }</pre>	No links
401	<p>Unauthorized operation (Can also have "Authentication credentials were not provided.")</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "detail": "Token is invalid or expired", "code": "token_not_valid" }</pre>	No links

GET	/reservations/mine/ Get all reservations (0 to N objects returned)	⤴
Get all reservations tied to user whos logged in (0 to N objects returned)		
Parameters	<div>Try it out</div>	
Name	Description	
page integer (query)	<p>The page for the pagination query. Required if page_size is specified.</p> <div>page</div>	
page_size integer (query)	<p>The page size for the pagination query. Not required.</p> <div>page_size</div>	

Responses

Code	Description	Links
200	<p>Successful operation</p> <p>Media type</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "count": 1, "next": null, "previous": null, "results": [{ "id": 5, "start_date": "2022-05-25", "end_date": "2022-05-27", "status": "Pending" }] }</pre>	No links
400	<p>Bad request operation</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "message": "error", "details": "" }</pre>	No links
401	<p>Unauthorized operation (Can also have "Authentication credentials were not provided.")</p> <p>Media type</p> <div>application/json</div> <p>Example Value Schema</p> <pre>{ "detail": "Token is invalid or expired", }</pre>	No links

Code	Description	Links
	<pre>"code": "token_not_valid" }</pre>	

PUT	/reservations/{id}/update	Update reservation	⤴
-----	---------------------------	--------------------	---

Update reservation specified by id

Parameters

[Try it out](#)

Name	Description
------	-------------

id * required

string

(path)

The id of the reservation being updated.

Responses

Code	Description	Links
200	Successful operation	No links
<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "start_date": "Optional[str]", "end_date": "Optional[str]", "status": "Optional[str]" }</pre></div>		
400	Bad request operation (error message varies)	No links
<div>Media type</div> <div>application/json</div>		

Code	Description	Links
401	Example Value Schema	
	<pre>{ "message": "error", "dates": "Start date cannot be after end date" }</pre>	
	Unauthorized operation	No links
404	Media type	
	<div>application/json</div>	
	Example Value Schema	
404	<pre>{ "details": "Authentication credentials were not provided." }</pre>	
	Not found operation	No links
	Media type	
	<div>application/json</div>	
	Example Value Schema	
	<pre>{ "message": "error", "details": "Reservation does not exist!" }</pre>	

POST	/reservations/{property_id}/create/	Create reservation	⤴
Create reservation			
Parameters			<div>Try it out</div>

Name

Description

property_id * required

The id of the property which is being reserved

string

(path)

property_id

Request body

application/json

Create reservation

Example Value Schema

```
{
  "start_date": "string",
  "end_date": "string"
}
```

Responses

Code

Description

Links

200

Successful operation

No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "message": "success",
  "data": {
    "start_date": "2022-05-25",
    "end_date": "2022-05-27",
    "status": "Pending"
  }
}
```

400

Bad request operation (error message varies)

No links

Media type

Code	Description	Links
401	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "amenities": "Dates overlap with another reservation"}</pre></div>	No links
	Unauthorized operation	
	Media type	
	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": ""}</pre></div>	
404	Not found operation	No links
	Media type	
	<div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "message": "error", "details": "Property with id: 12 does not exist"}</pre></div>	

Schemas	^



```
Comment {
  description: Followup comments after a reservation

  id integer($int64)
  example: 10

  message string
  example: Thanks for the followup! I had a great time at X.

  sender_type string
  Enum:
    [ Property, User ]

  last_modified string($timestamp)
  example: 2023-03-05 18:21:25
  Gets set to current time

}
```



```
Feedback {
  description: The feedback after a reservation

  id integer($int64)
  example: 10

  user_rating number
  example: 4
  Between 0 to 5

  property_rating number
  example: 4
  Between 0 to 5

  comments {
    description: Foreign key (1-N) to the Comments class.
                  A Feedback class can many Comments.

  }
  example: <Comment id=1>

}
```



```
Notifications {
  description: The notification system

  id integer($int64)
  example: 10

  title string
  example: Jack Left a comment on his reservation at 'The Lodge'.

  description string
  example: Click here to read Jack's comment.

  url string
  example: http://127.0.0.1/notification-1.html/

  status string
  Enum:

    [ Cleared, Read, Unread ]

  user {
    description: Foreign key (Only 1) to the RestifyUser
                  class with a user whose account type is
                  User.

  }
  example: <User id=2>

  host {
    description: Foreign key (Only 1) to the RestifyUser
                  class with a user whose account type is
                  Host.

  }
  example: <User id=8>

}
```




```
Property {
  description:      The Restify properties

  id                integer($int64)
                   example: 10

  title             string
                   example: The Lodge

  location           string
                   example: Toronto

  description        string
                   example: Generic description of the property.

  max_number_of_guests integer
                   example: 7
                   Must be greater than 0.

  price             number
                   example: 42.76
                   The nightly price. Must be greater than 0.

  amenities          string
                   example: Balcony,Lake,Outdoor Shower
                   Comma-seperated string with no spaces in between.

  host              {
                    {
                      description:      Foreign key (Only 1-N) to the
                                         RestifyUser class with a user whose
                                         account type is Host. A Host can have
                                         multiple properties.
                    }
                   example: <User id=8>
  }
}
```



```
PropertyImages {
  description:      The Restify Property images

  id                integer($int64)
                   example: 10

  property          {
                    {
                      description:      Foreign key (Only 1-N) to the Property
                                         class. A Property can have multiple
                                         images.
                    }
                   example: <Property id=5>

  image             {...}
                   example: media/test.png
  }
}
```



```
Reservation {
  description: The Restify Property reservations

  id integer($int64)
  example: 10

  start_date string($date)
  example: 2023-03-05
  The start date of the reservation. Earliest date is current date.

  end_date string($date)
  example: 2023-03-08
  The end date of the reservation. Earliest date is the day after the
  start date.

  status string
  Enum:
    [ Pending, Denied, Expired, Approved, Canceled, Terminated,
    Completed ]

  feedback {
    description: One-to-One field to the Feedback class.
                  Can initially be empty.

  }
  example: <Feedback id=2>

  user {
    description: Foreign key (1-N) to the RestifyUser
                  class with a user whose account type is
                  User. RestifyUser can have multiple
                  reservations.

  }
  example: <RestifyUser id=2>

  property {
    description: Foreign key (1-N) to the Property class.
                  Property can have multiple reservations.

  }
  example: <Property id=7>

}
```



```
RestifyUser {
  description: The authenticated User model

  id integer($int64)
    example: 10
    Unique ID

  username string
    example: TestUser
    Username used as a unique ID

  first_name string
    example: Test

  last_name string
    example: User

  email string($email)
    example: testuser@gmail.com

  phone_number [...]

  account_type string
    Enum:
      [ Host, User ]

  avatar {...}
    example: media/test.png

  is_active boolean
    example: true

  staff boolean
    example: true

  admin boolean
    example: true
}
```