Overview

Expected: 201 Created

Over view
This document summarizes the testing and validation process for the HBnB API.
It includes:
- Manual testing using curl and Swagger UI
- Input validation
- Automated tests using unittest
- Results and edge case coverage
Manual Tests via curl
Users:
Create valid user:
curl -X POST http://localhost:5000/api/v1/users/ -H "Content-Type: application/json" -d '{"first_name": "John"
"last_name": "Doe", "email": "john@example.com"}'
Expected: 201 Created
Invalid user:
curl -X POST http://localhost:5000/api/v1/users/ -H "Content-Type: application/json" -d '{"first_name": ""
"last_name": "", "email": "invalid"}'
Expected: 400 Bad Request
Places:
Valid place:
curl -X POST http://localhost:5000/api/v1/places/

Invalid place:	
curl -X POST with bad latitude/price	
Expected: 400 Bad Request	
Reviews:	
Valid review:	
curl -X POST http://localhost:5000/api/v1/reviews/	
Expected: 201 Created	
List reviews for a place:	
curl http://localhost:5000/api/v1/places/ <place_id>/reviews</place_id>	
Expected: List response	
Swagger Documentation	
Accessible at: http://localhost:5000/api/v1/	
Models and parameters are well documented.	
Unit Testing	
Command used: python3 -m unittest discover tests	
Result:	
Ran 16 tests in 0.296s	

OK

Tests included:

- User creation and validation

- Place creation and validation

- Review creation and linking

- Serialization with to_dict

Validation Summary
User:
- first_name, last_name, and email are required
- Email must be valid
Place:
- title required
- price must be positive
- latitude between -90 and 90
- longitude between -180 and 180
Review:
- text required
- user_id and place_id must reference valid records
Conclusion
All endpoints were tested, validated, and documented.
API meets all requirements:

- Input validation
- RESTful structure
- Manual + automated testing
- Swagger integration