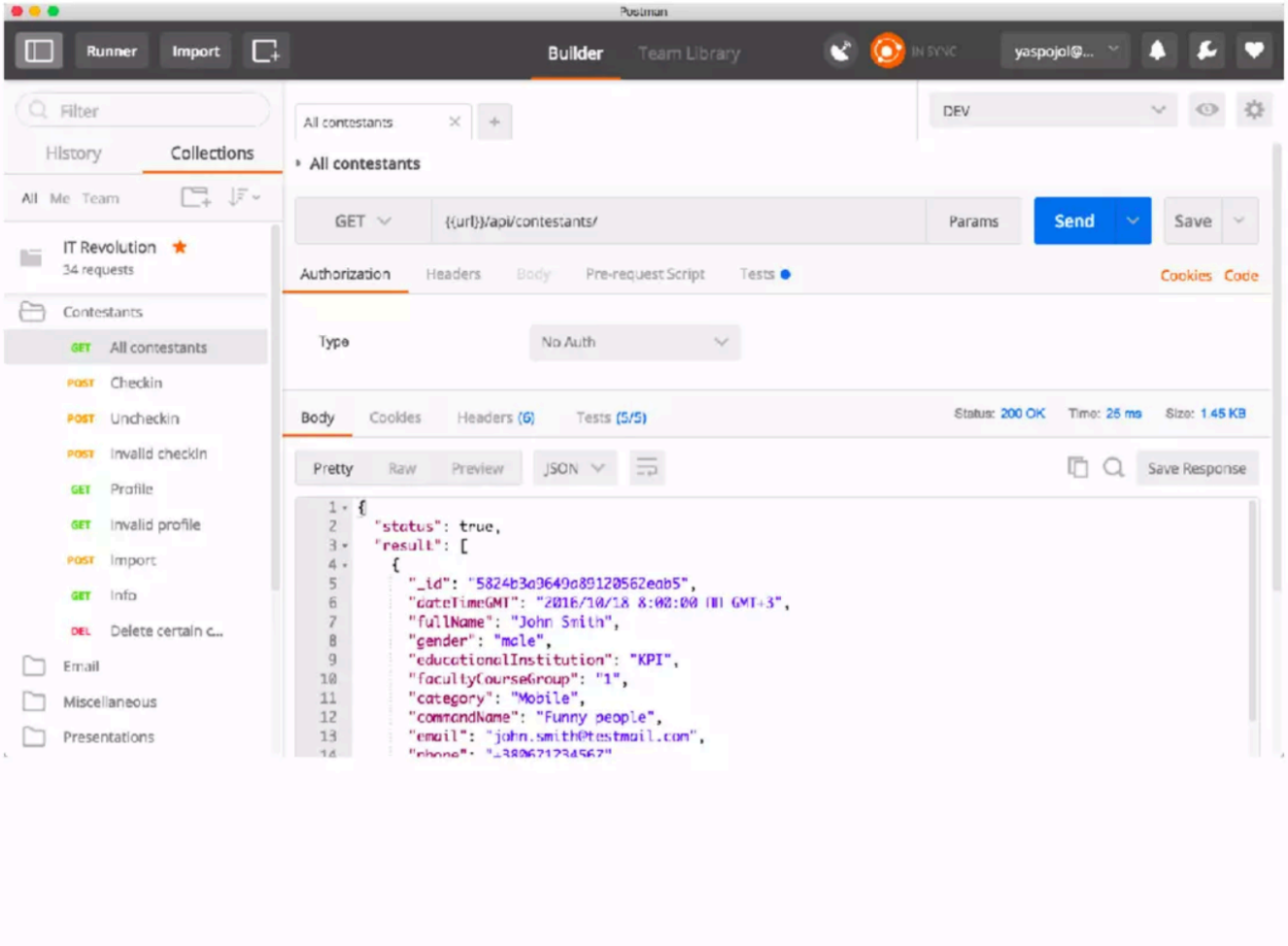
POSTMAN

An Introduction for Developers

Postman - API development tool

- Design
- Manage
- Run
- Test
- Documentation
- Share

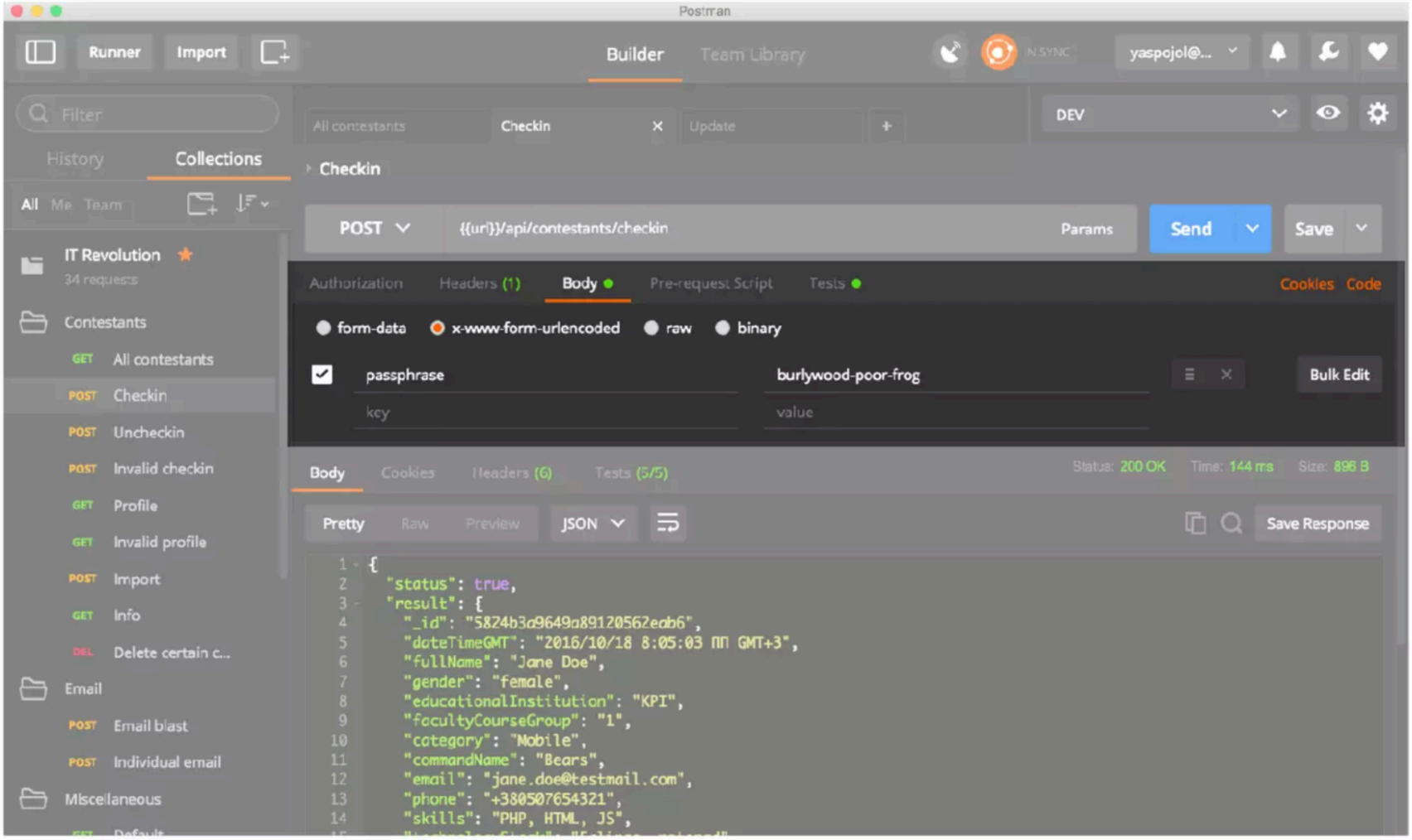


Learning Objectives

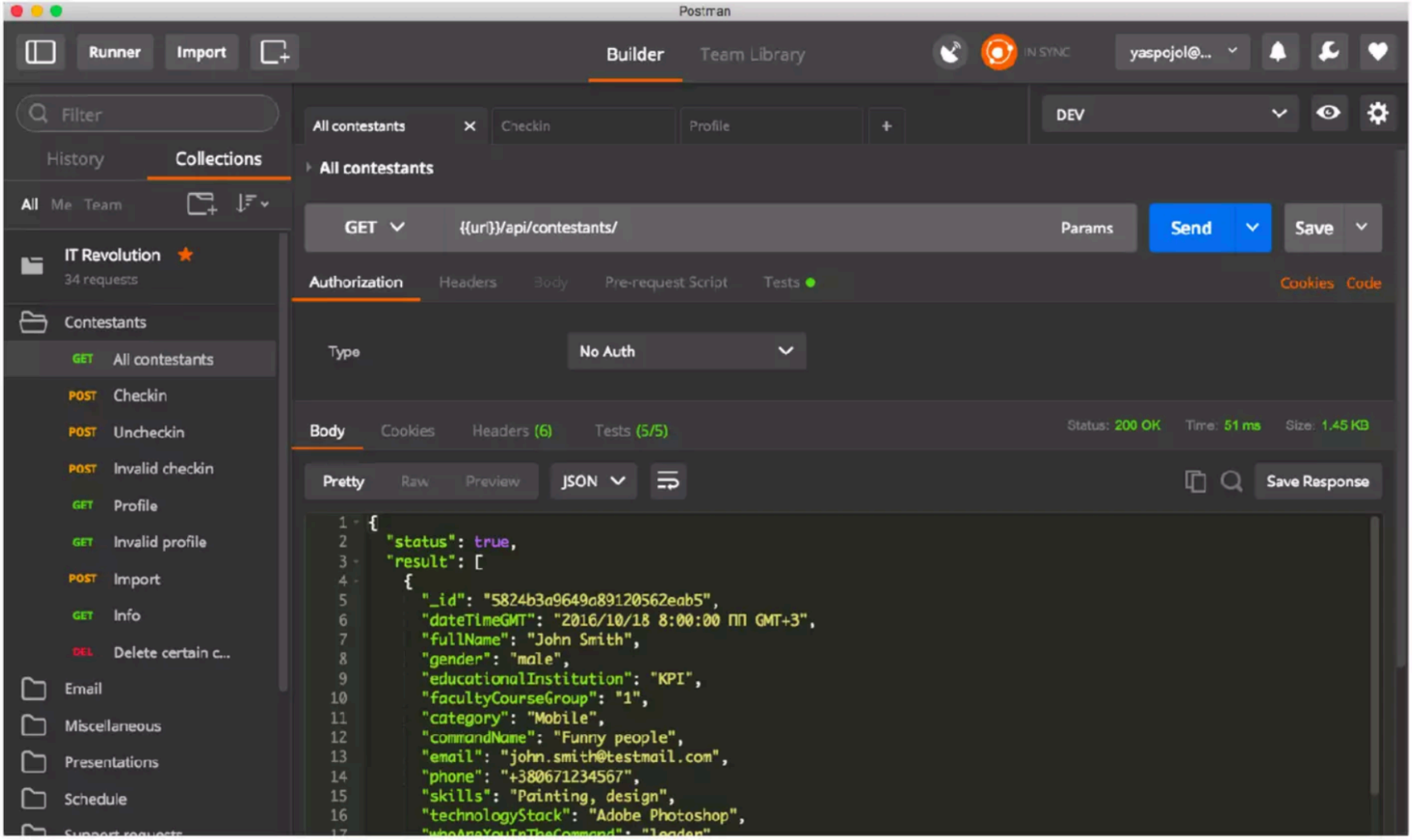
At the end of this session, you will be able to:

- Know what Postman is and what it's used for
- Send a request in Postman using CRUD operations
- Inspect a response
- Test a response
- Save example responses to a collection
- Get and set variables
- Basic authorization
- Debug and troubleshoot unexpected behavior

Request forms



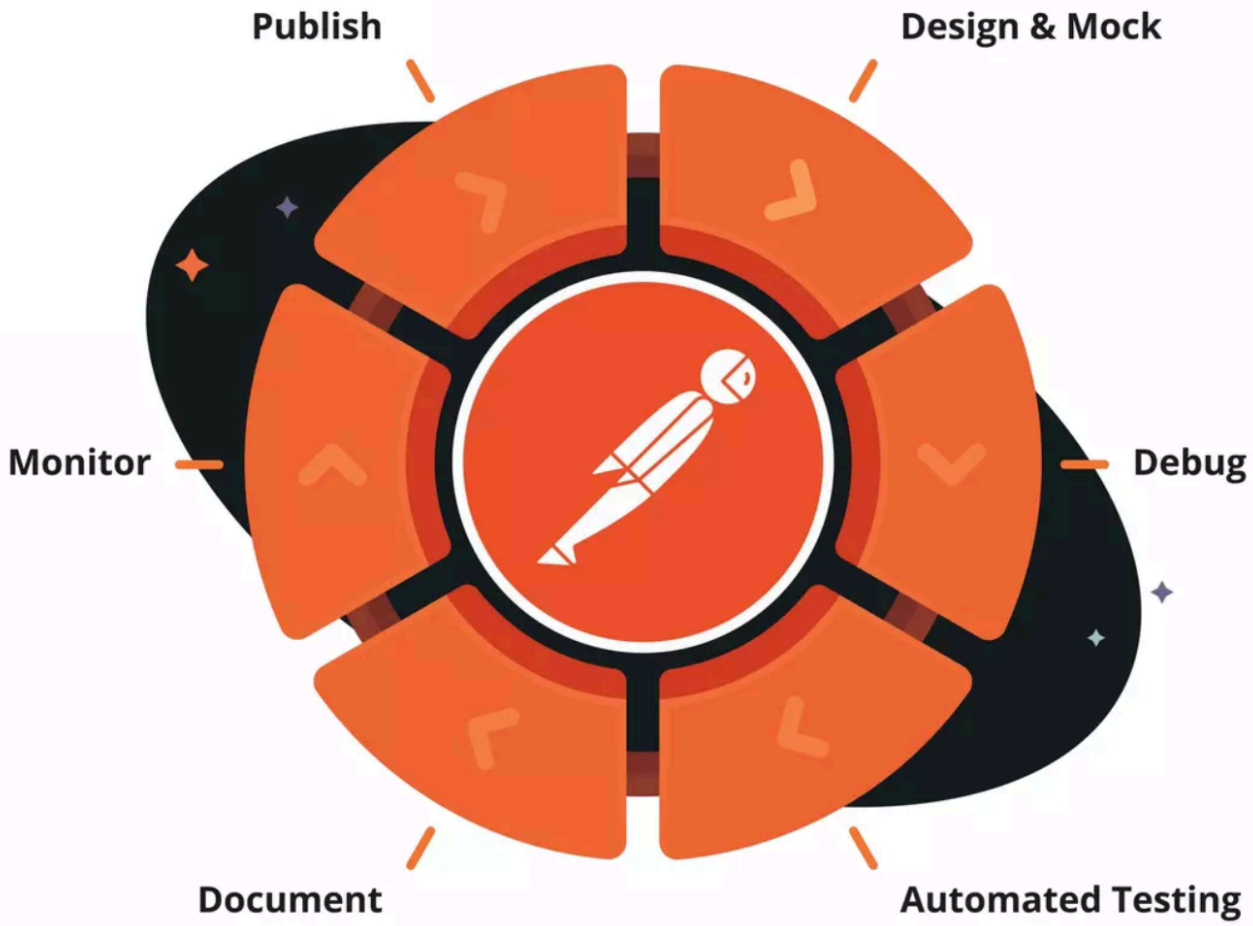
Response


Postman
Runner
Import
Builder
Team Library
IN SYNC
yaspojol@...
Filter
History
Collections
All
Me
Team
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
All contestants
Checkin
Profile
DEV
All contestants
GET
{{url}}/api/contestants/
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Type
No Auth
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
Pretty
Raw
Preview
JSON
Save Response
{
"status": true,
"result": [
{
"_id": "5824b3a9649a89120562eab5",
"dateTimeGMT": "2016/10/18 8:00:00 ПП GMT+3",
"fullName": "John Smith",
"gender": "male",
"educationalInstitution": "KPI",
"facultyCourseGroup": "1",
"category": "Mobile",
"commandName": "Funny people",
"email": "john.smith@testmail.com",
"phone": "+380671234567",
"skills": "Painting, design",
"technologyStack": "Adobe Photoshop",

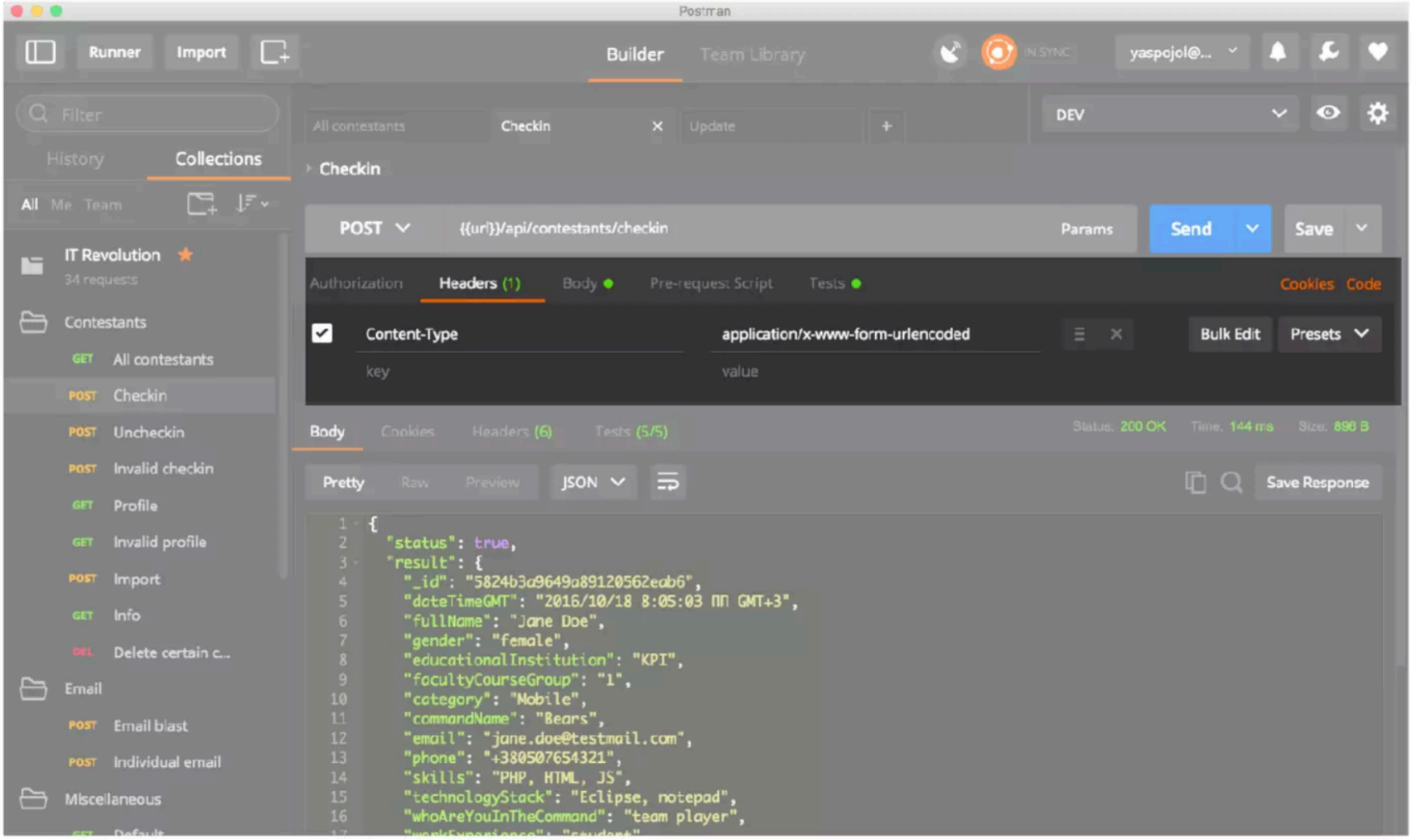
What is Postman?

Postman is an API Collaboration Platform used by more than **15 million users.**

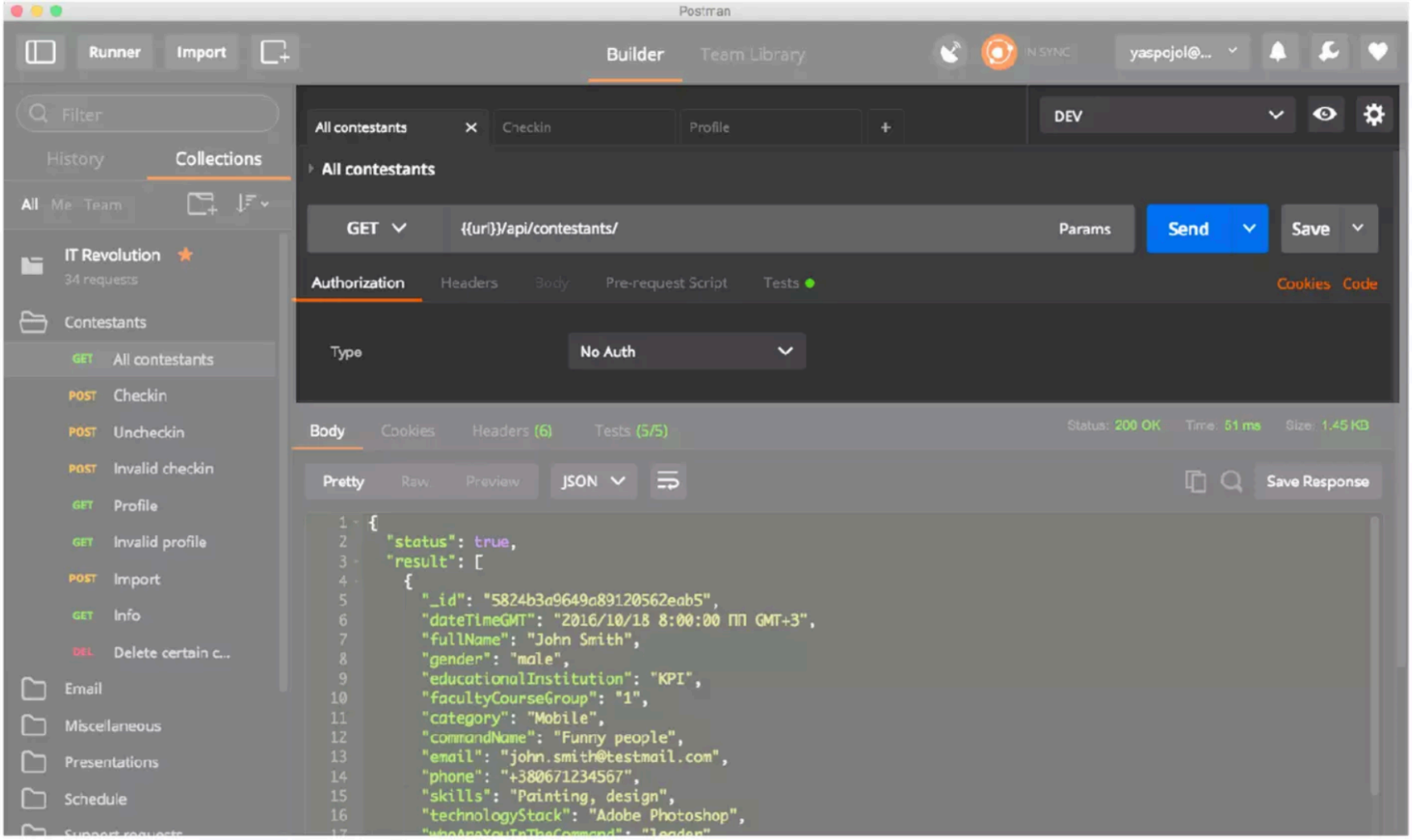
Postman helps people work with APIs more efficiently.



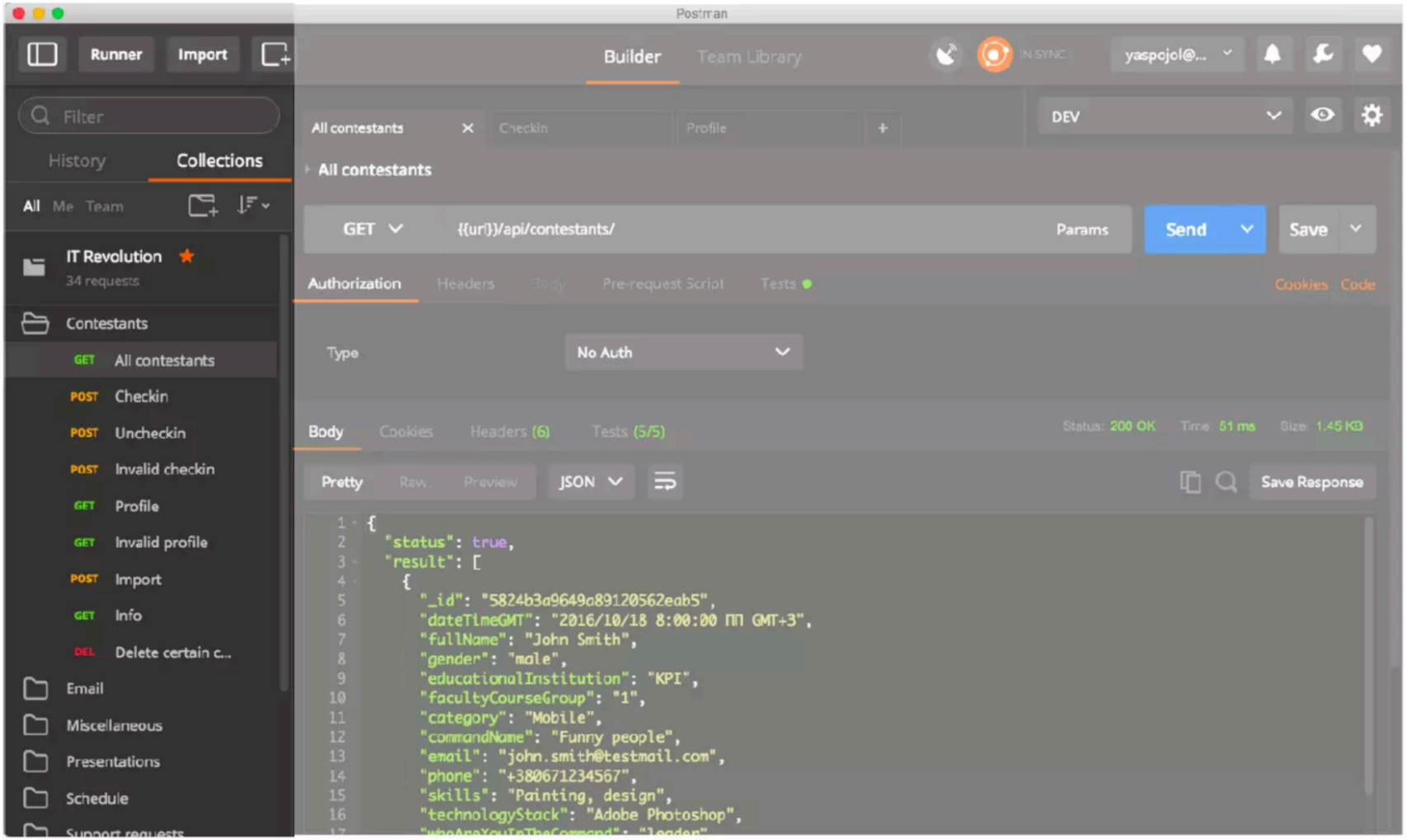
Request headers



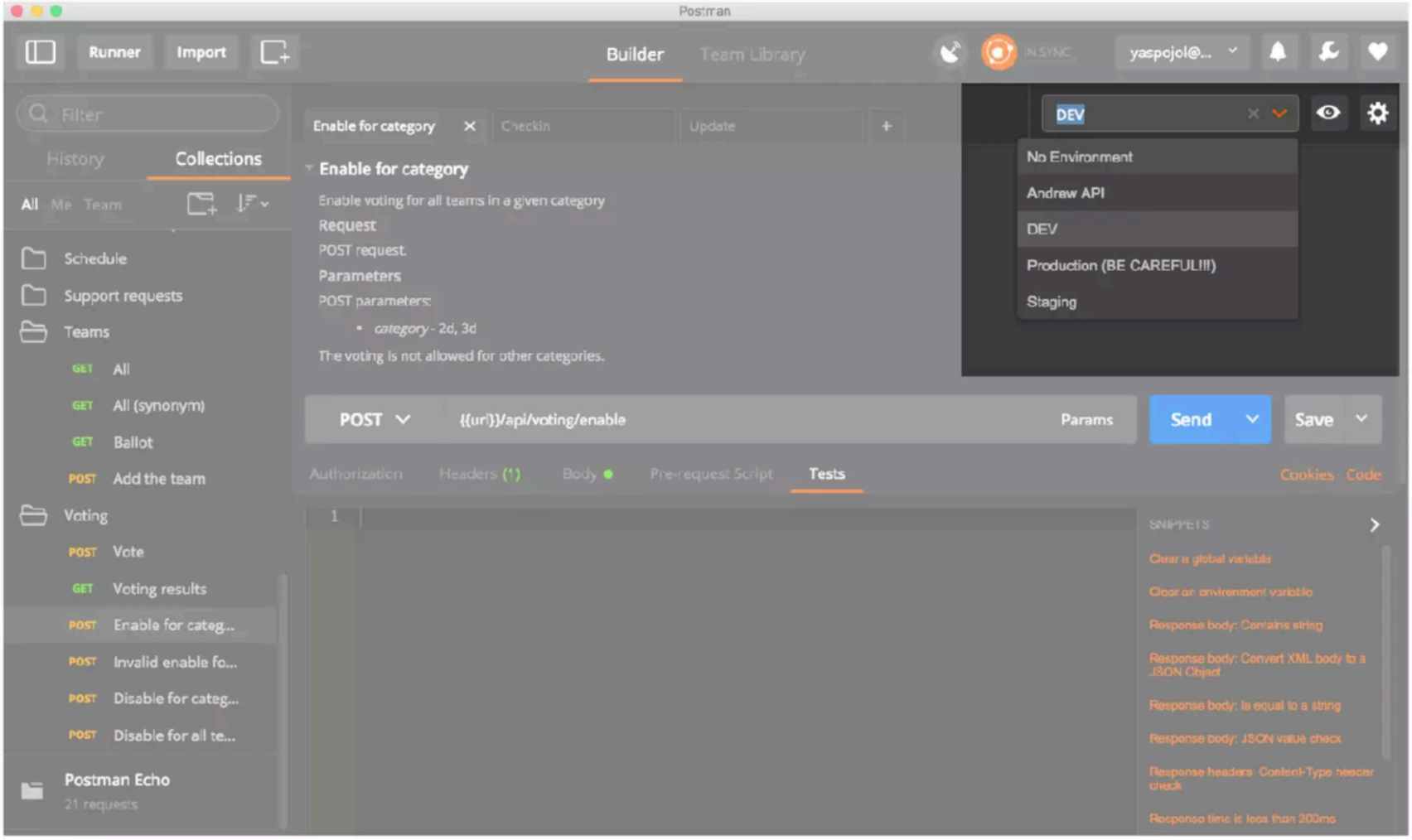
Request


Postman
Runner
Import
Builder
Team Library
IN SYNC
yaspojol@...
Filter
History
Collections
All Me Team
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
All contestants
Checkin
Profile
DEV
All contestants
GET
{{url}}/api/contestants/
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Type
No Auth
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
Pretty
Raw
Preview
JSON
Save Response
{
"status": true,
"result": [
{
"_id": "5824b3a9649a89120562eab5",
"dateTimeGMT": "2016/10/18 8:00:00 ПП GMT+3",
"fullName": "John Smith",
"gender": "male",
"educationalInstitution": "KPI",
"facultyCourseGroup": "1",
"category": "Mobile",
"commandName": "Funny people",
"email": "john.smith@testmail.com",
"phone": "+380671234567",
"skills": "Painting, design",
"technologyStack": "Adobe Photoshop",

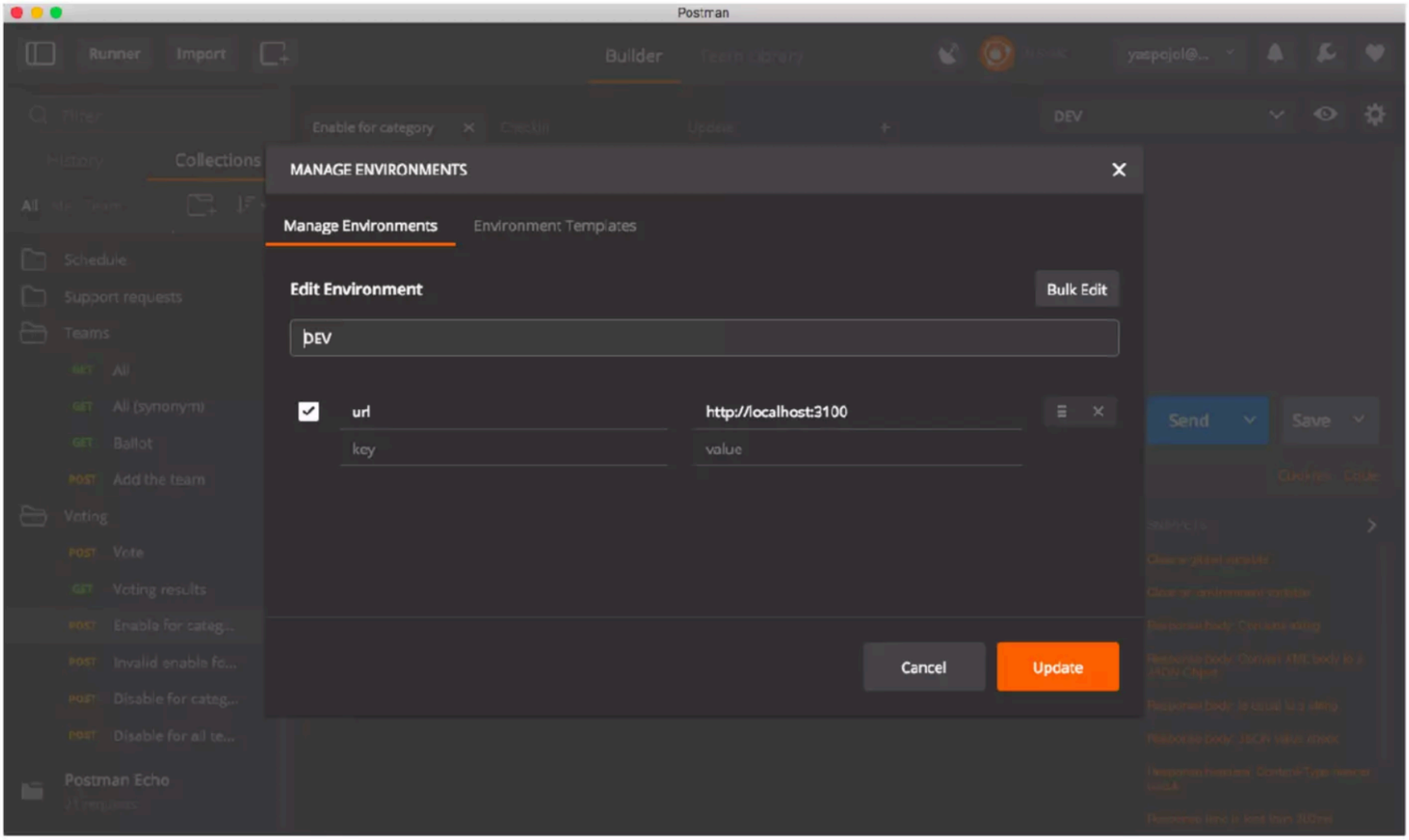
Collections and folders



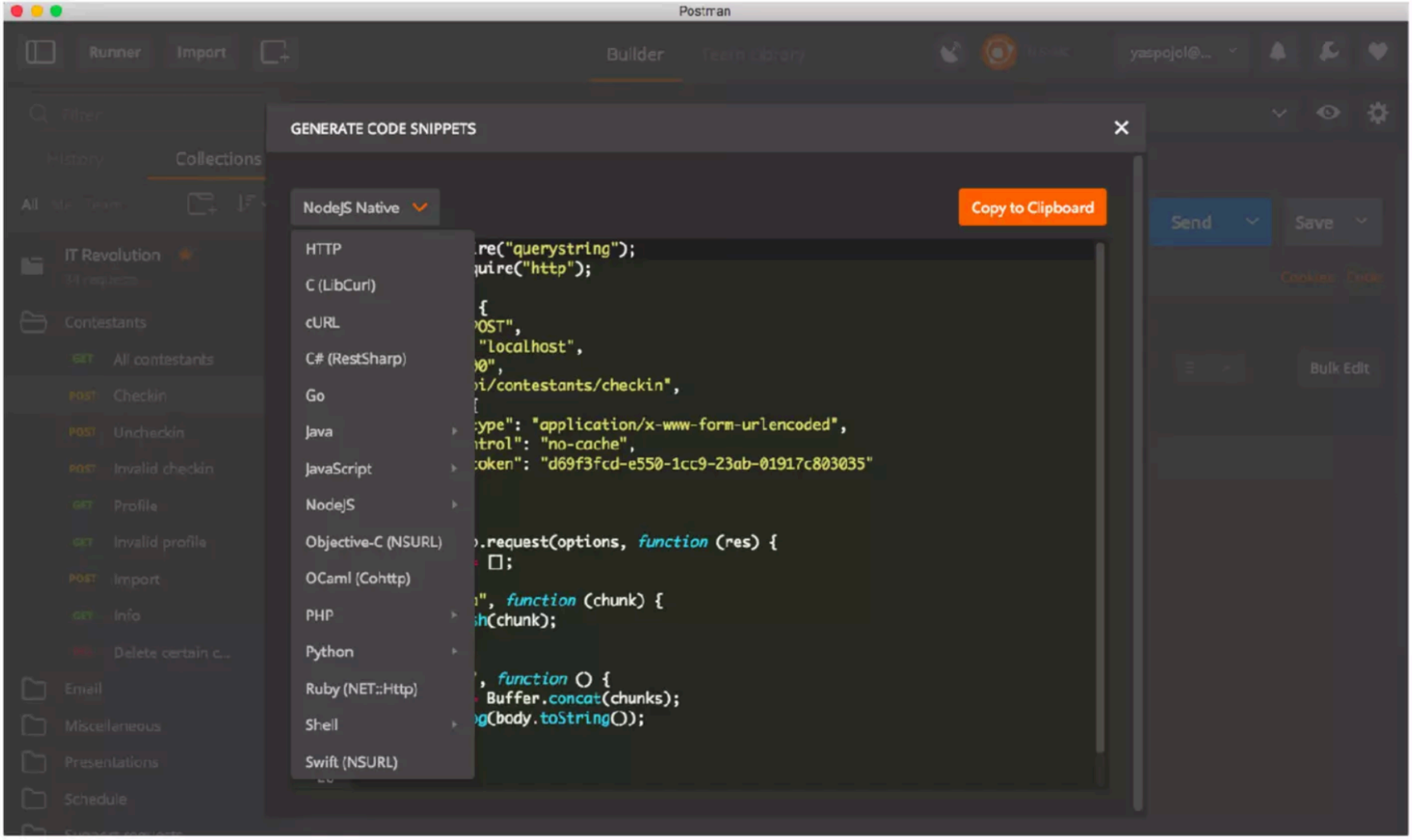
Environments



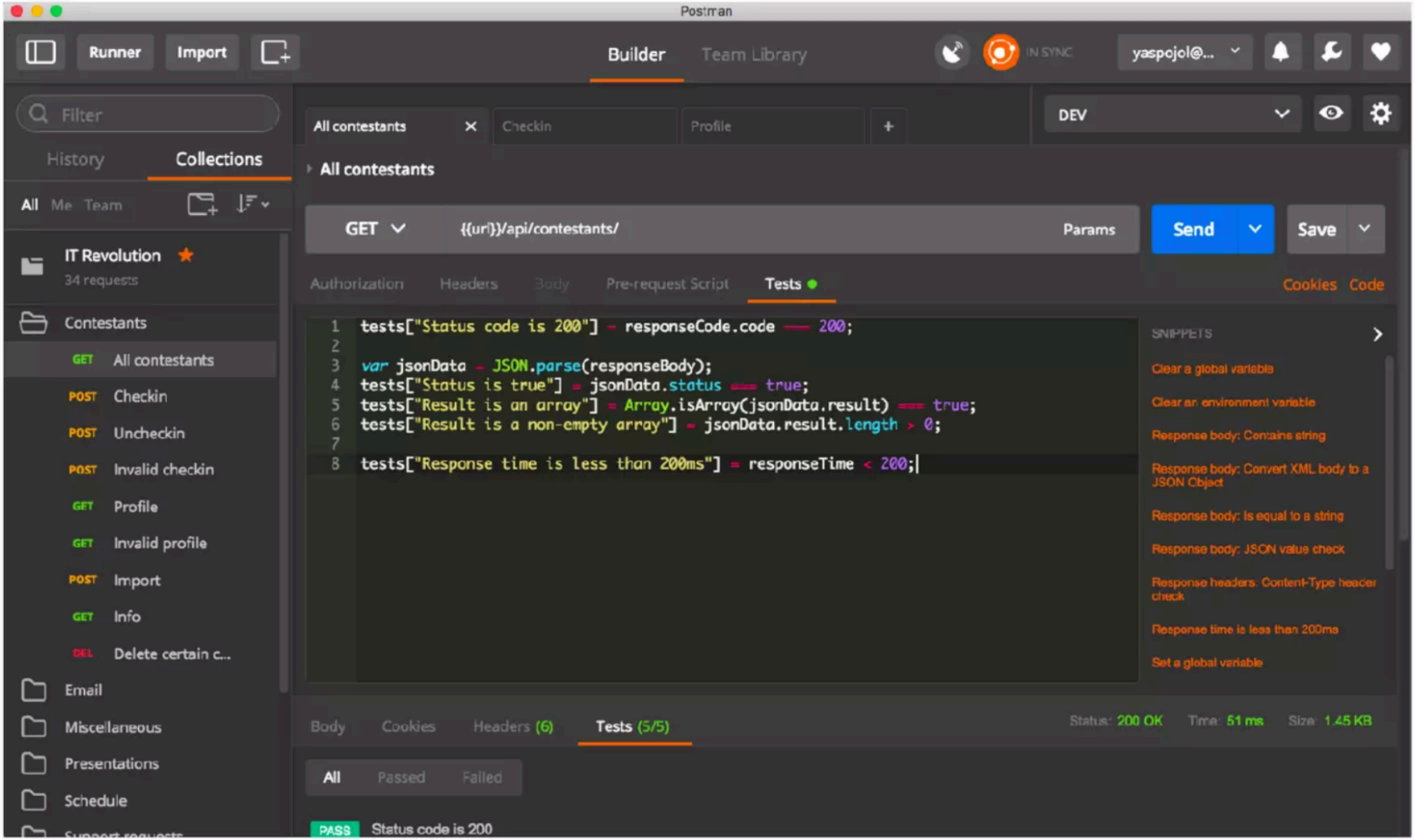
Environment variables



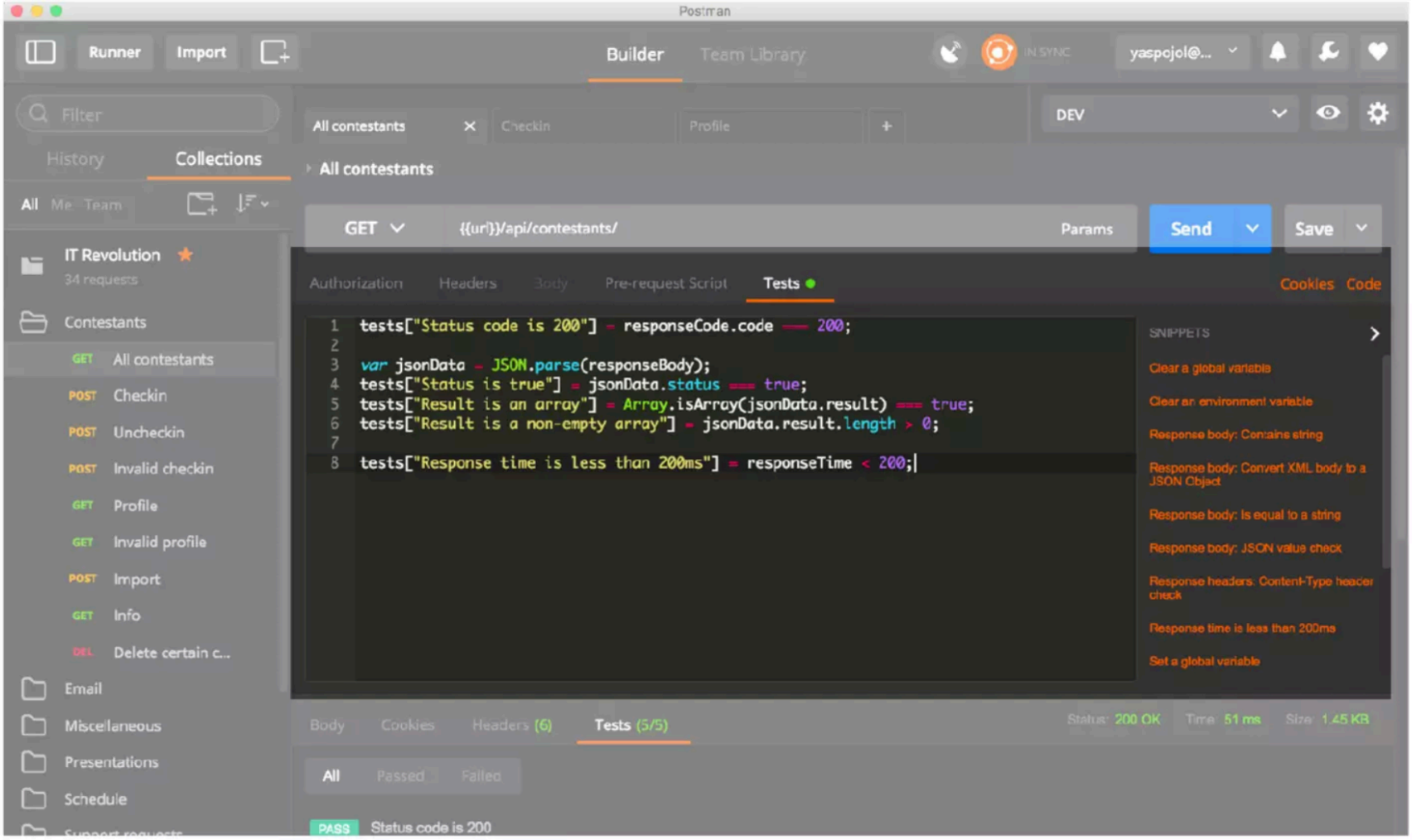
Code generation



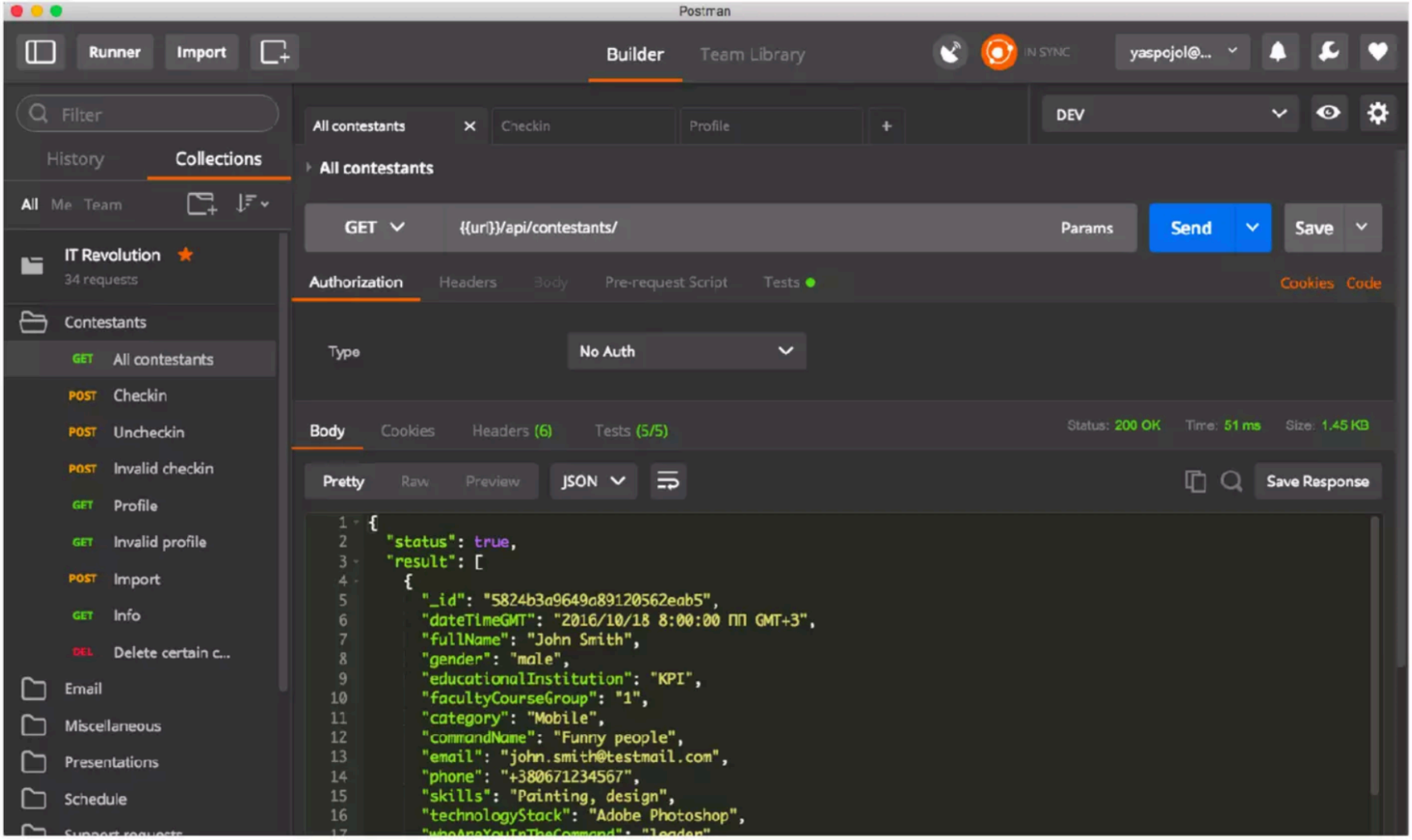
Tests


Postman
Runner
Import
Builder
Team Library
IN SYNC
yaspojol@...
Filter
History
Collections
All Me Team
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
All contestants
Checkin
Profile
DEV
All contestants
GET
{{uri}}/api/contestants/
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
1 tests["Status code is 200"] = responseCode.code === 200;
2
3 var jsonData = JSON.parse(responseBody);
4 tests["Status is true"] = jsonData.status === true;
5 tests["Result is an array"] = Array.isArray(jsonData.result) === true;
6 tests["Result is a non-empty array"] = jsonData.result.length > 0;
7
8 tests["Response time is less than 200ms"] = responseTime < 200;
SNIPPETS
Clear a global variable
Clear an environment variable
Response body: Contains string
Response body: Convert XML body to a JSON Object
Response body: Is equal to a string
Response body: JSON value check
Response headers: Content-Type header check
Response time is less than 200ms
Set a global variable
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
All
Passed
Failed
PASS
Status code is 200

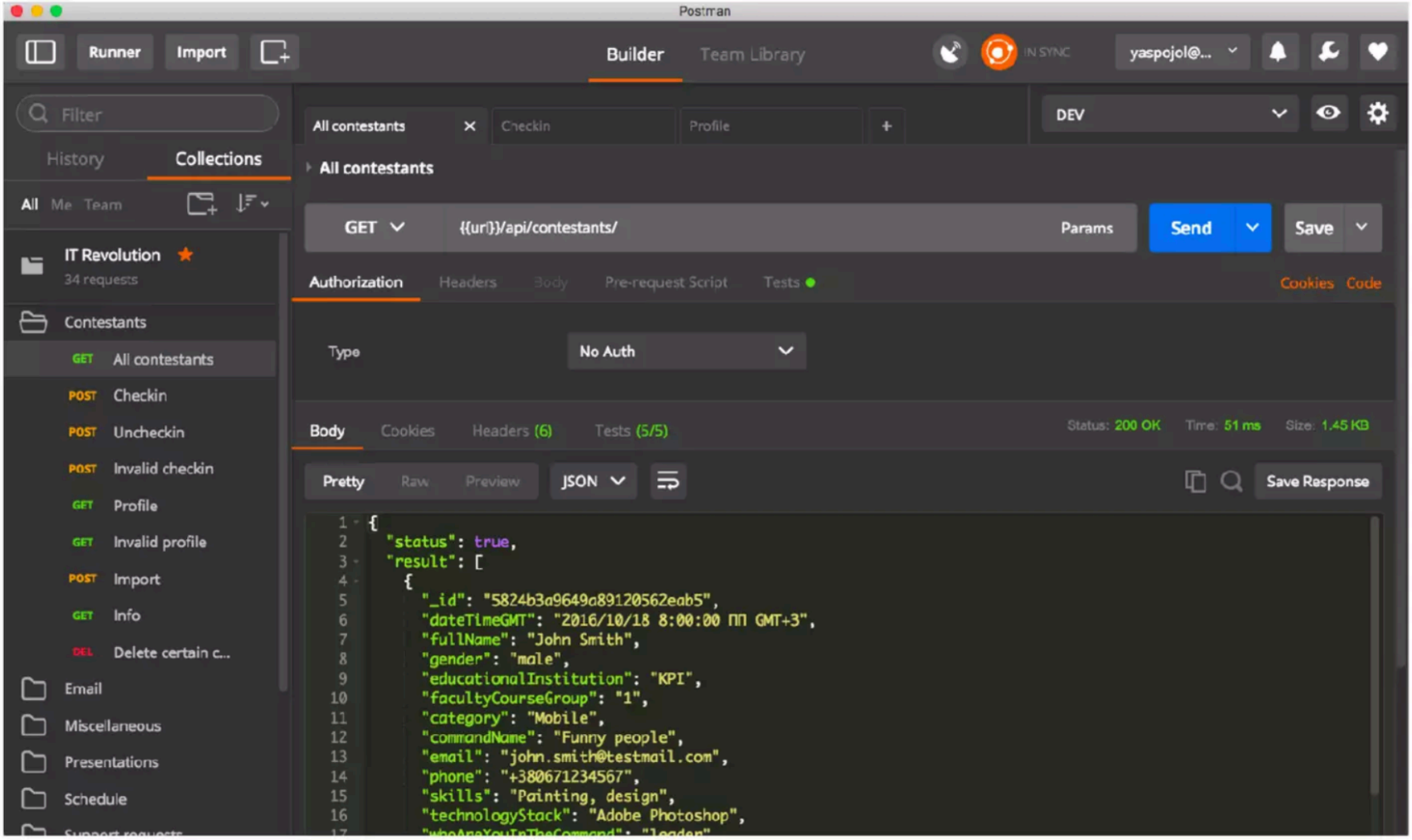
Tests


Postman
Runner
Import
Builder
Team Library
IN SYNC
yaspojol@...
Filter
History
Collections
All
Me
Team
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
All contestants
Checkin
Profile
DEV
All contestants
GET
{{url}}/api/contestants/
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
1 tests["Status code is 200"] = responseCode.code === 200;
2
3 var jsonData = JSON.parse(responseBody);
4 tests["Status is true"] = jsonData.status === true;
5 tests["Result is an array"] = Array.isArray(jsonData.result) === true;
6 tests["Result is a non-empty array"] = jsonData.result.length > 0;
7
8 tests["Response time is less than 200ms"] = responseTime < 200;
SNIPPETS
Clear a global variable
Clear an environment variable
Response body: Contains string
Response body: Convert XML body to a JSON Object
Response body: Is equal to a string
Response body: JSON value check
Response headers: Content-Type header check
Response time is less than 200ms
Set a global variable
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
All
Passed
Failed
PASS
Status code is 200

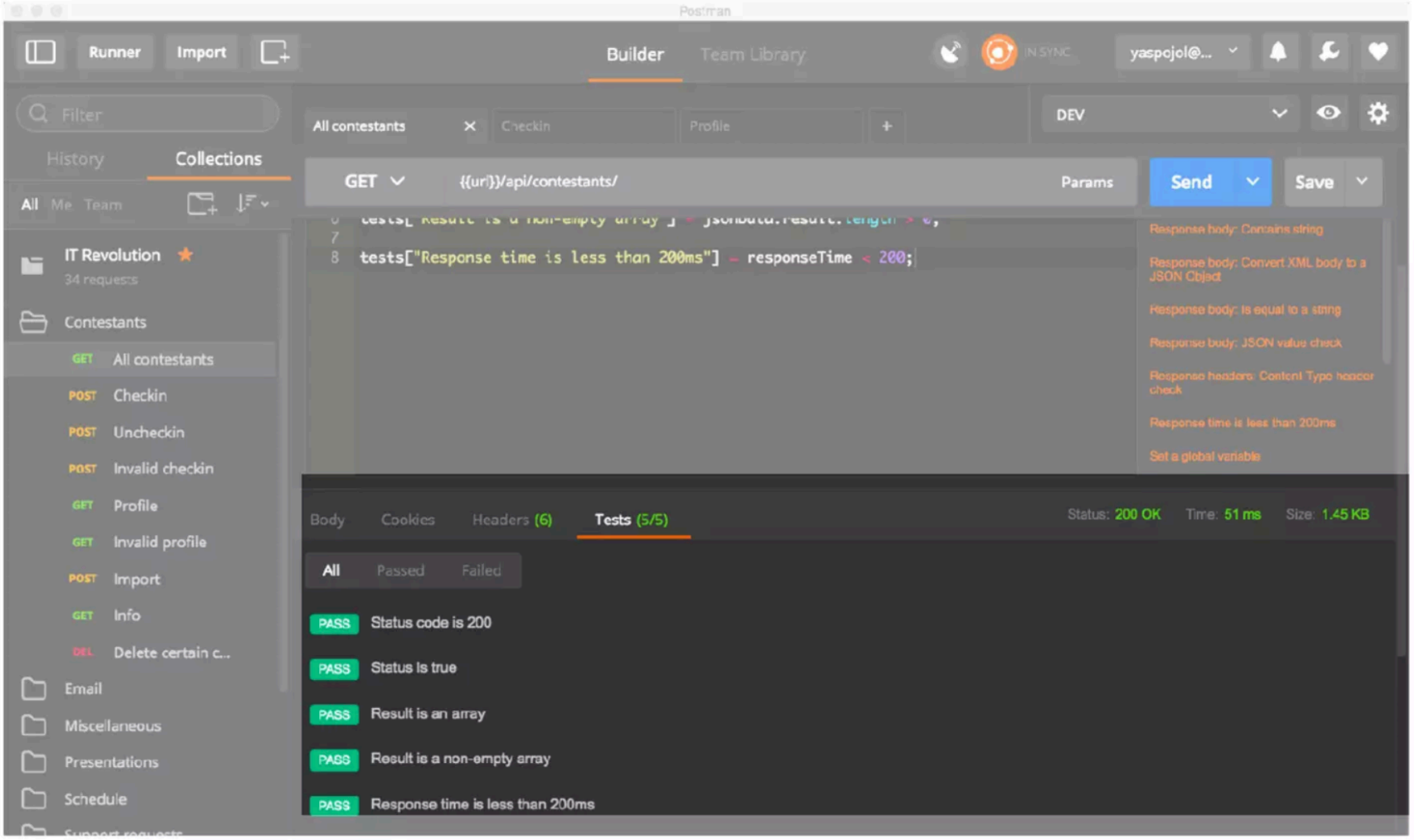
Request


Postman
Runner
Import
Builder
Team Library
IN SYNC
yaspojol@...
Filter
History
Collections
All Me Team
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
All contestants
Checkin
Profile
DEV
All contestants
GET
{{url}}/api/contestants/
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
Type
No Auth
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
Pretty
Raw
Preview
JSON
Save Response
{
"status": true,
"result": [
{
"_id": "5824b3a9649a89120562eab5",
"dateTimeGMT": "2016/10/18 8:00:00 ПП GMT+3",
"fullName": "John Smith",
"gender": "male",
"educationalInstitution": "KPI",
"facultyCourseGroup": "1",
"category": "Mobile",
"commandName": "Funny people",
"email": "john.smith@testmail.com",
"phone": "+380671234567",
"skills": "Painting, design",
"technologyStack": "Adobe Photoshop",

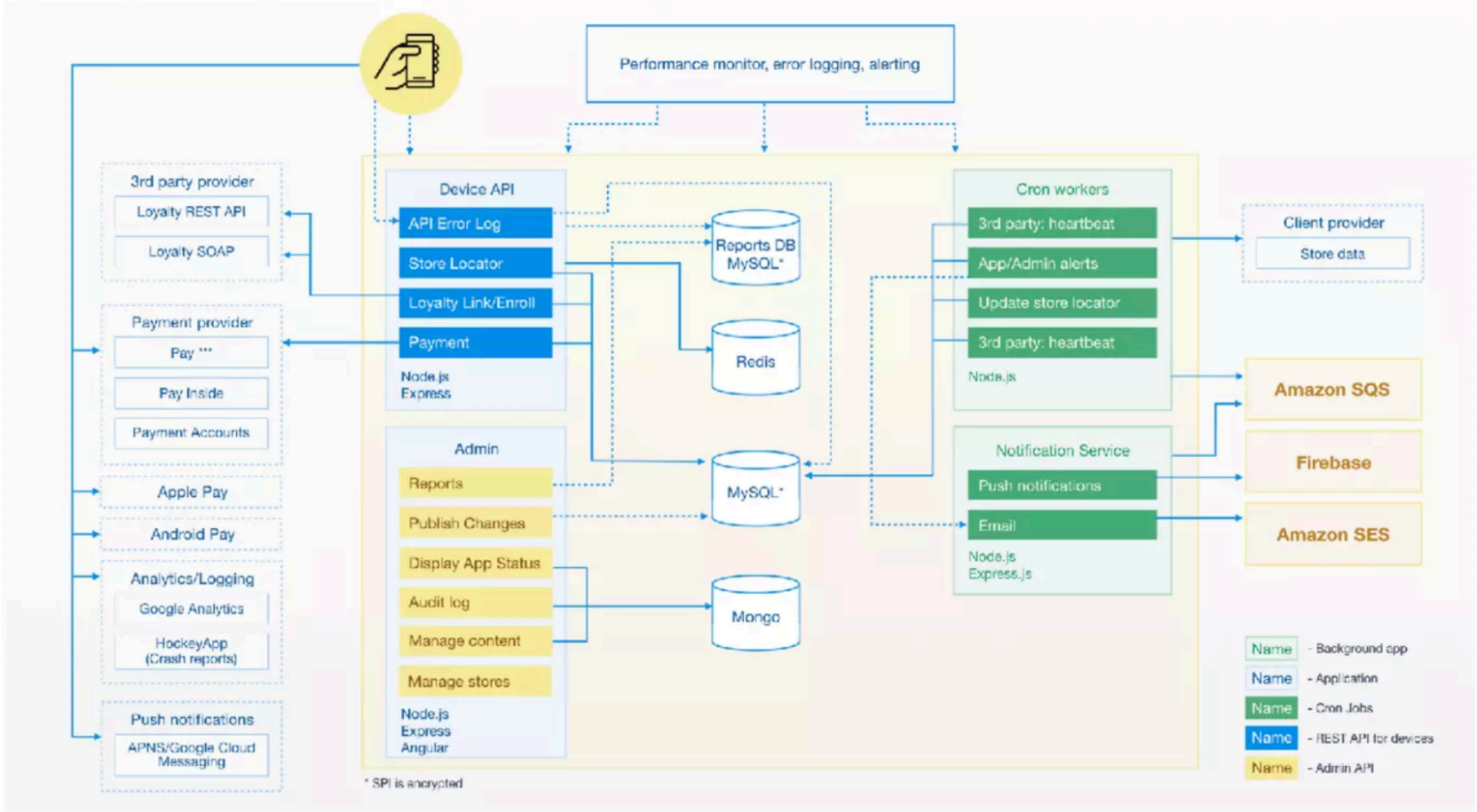
Collections and folders



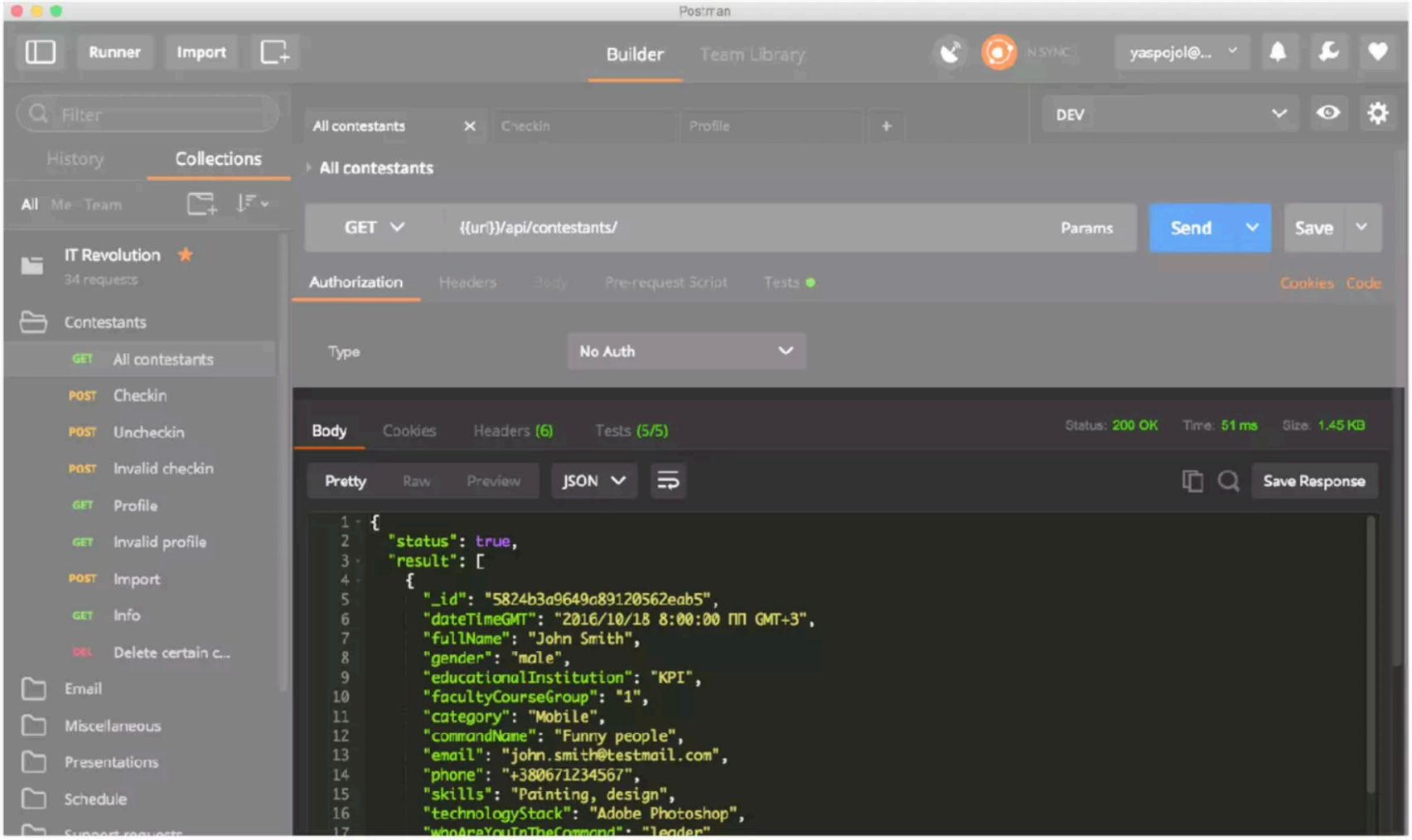
Test results



Complex systems



Response


Postman
Runner
Import
Builder
Team Library
yaspojol@...
Filter
History
Collections
All contestants
Checkin
Profile
DEV
All contestants
GET
{{url}}/api/contestants/
Params
Send
Save
Authorization
Headers
Pre-request Script
Tests
Cookies
Code
Type
No Auth
IT Revolution
34 requests
Contestants
GET All contestants
POST Checkin
POST Uncheckin
POST Invalid checkin
GET Profile
GET Invalid profile
POST Import
GET Info
DEL Delete certain c...
Email
Miscellaneous
Presentations
Schedule
Body
Cookies
Headers (6)
Tests (5/5)
Status: 200 OK
Time: 51 ms
Size: 1.45 KB
Pretty
Raw
Preview
JSON
Save Response
{
"status": true,
"result": [
{
"_id": "5824b3a9649a89120562eab5",
"dateTimeGMT": "2016/10/18 8:00:00 ПП GMT+3",
"fullName": "John Smith",
"gender": "male",
"educationalInstitution": "KPI",
"facultyCourseGroup": "1",
"category": "Mobile",
"commandName": "Funny people",
"email": "john.smith@testmail.com",
"phone": "+380671234567",
"skills": "Painting, design",
"technologyStack": "Adobe Photoshop",

Test results