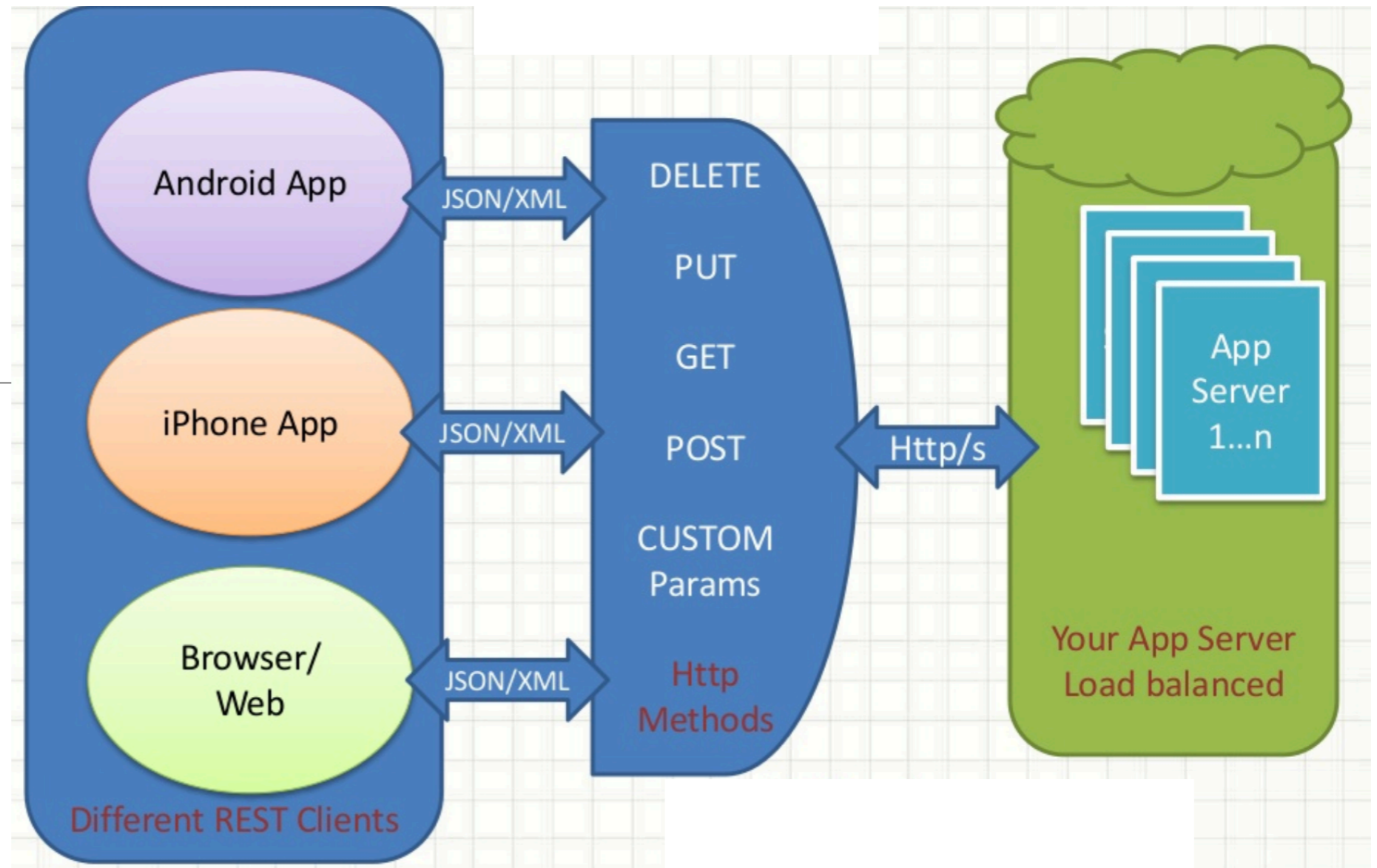


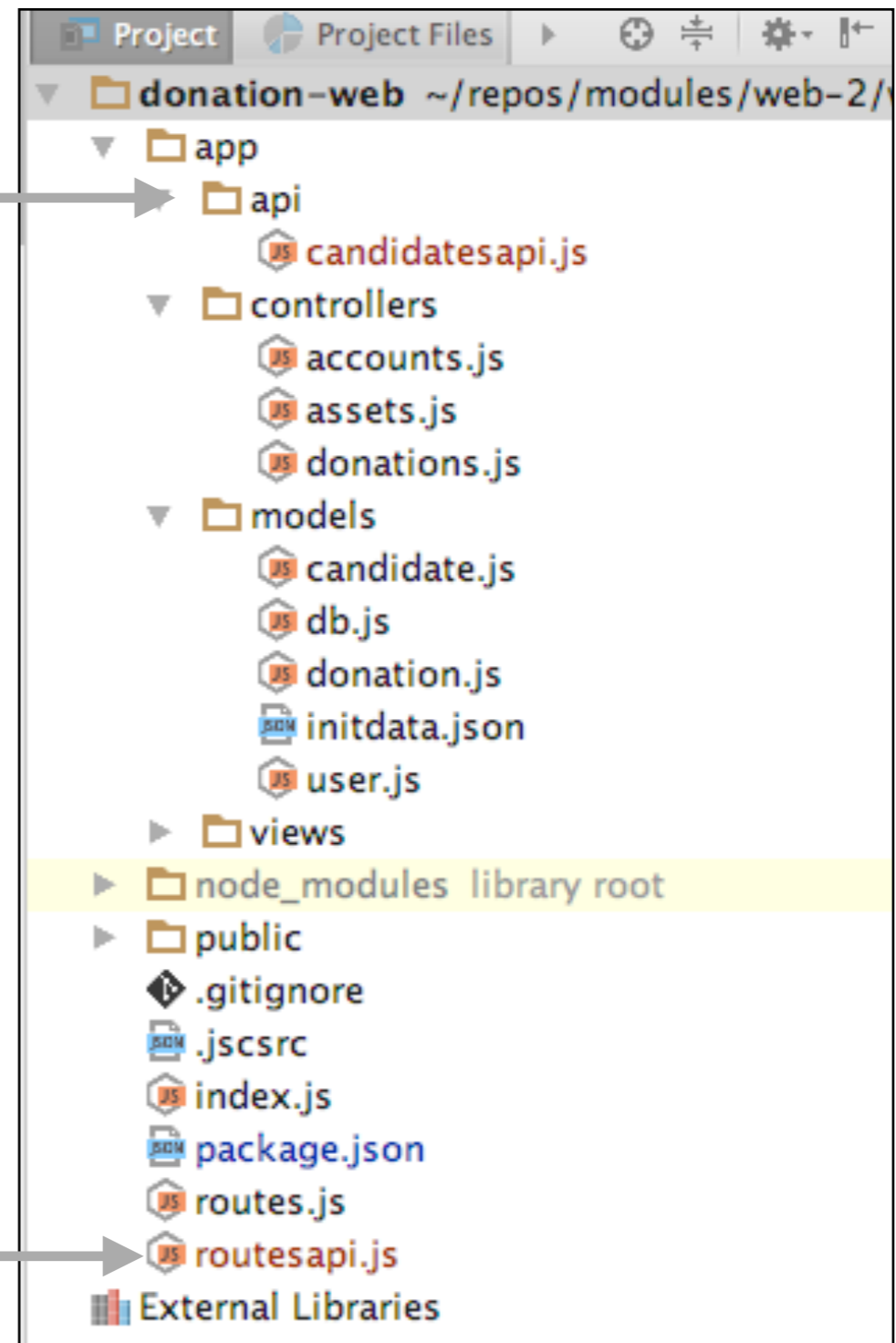
Endpoints



Project Structure

Create 'api' folder to expose endpoints from the application

Create 'routesapi.js' to define these endpoints



Get Candidates Endpoint

routesapi.js

```
const CandidatesApi = require('./app/api/candidatesapi');

module.exports = [
  { method: 'GET', path: '/api/candidates', config: CandidatesApi.find },
];
```

candidatesapi.js

```
const Candidate = require('../models/candidate');
const Boom = require('boom');

exports.find = {

  auth: false,

  handler: function (request, reply) {
    Candidate.find({}).exec().then(candidates => {
      reply(candidates);
    }).catch(err => {
      reply(Boom.badImplementation('error accessing db'));
    });
  },
};
```

localhost:4000/api/candidates x Eamonn

localhost:4000/api/candidates

+ - View source

```
[
  - {
    _id: "57b6b94d701cce8539bddea5",
    firstName: "Lisa",
    lastName: "Simpson",
    office: "President",
    __v: 0
  },
  - {
    _id: "57b6b94d701cce8539bddea6",
    firstName: "Donald",
    lastName: "Simpson",
    office: "President",
    __v: 0
  }
]
```

[0]



boom

<https://github.com/hapijs/boom>

boom provides a set of utilities for returning HTTP errors. Each utility returns a `Boom` error response object (instance of `Error`) which includes the following properties:

- `isBoom` - if `true`, indicates this is a `Boom` object instance.
- `isServer` - convenience bool indicating status code ≥ 500 .
- `message` - the error message.
- `output` - the formatted response. Can be directly manipulated after object construction to return a custom error response.

Allowed root keys:

- `statusCode` - the HTTP status code (typically 4xx or 5xx).
- `headers` - an object containing any HTTP headers where each key is a header name and value is the header content.
- `payload` - the formatted object used as the response payload (stringified). Can be directly manipulated but any changes will be lost if `reformat()` is called. Any content allowed and by default includes the following content:
 - `statusCode` - the HTTP status code, derived from `error.output.statusCode`.
 - `error` - the HTTP status message (e.g. 'Bad Request', 'Internal Server Error') derived from `statusCode`.
 - `message` - the error message derived from `error.message`.
- inherited `Error` properties.

Get Candidate (singular) Endpoint

routesapi.js

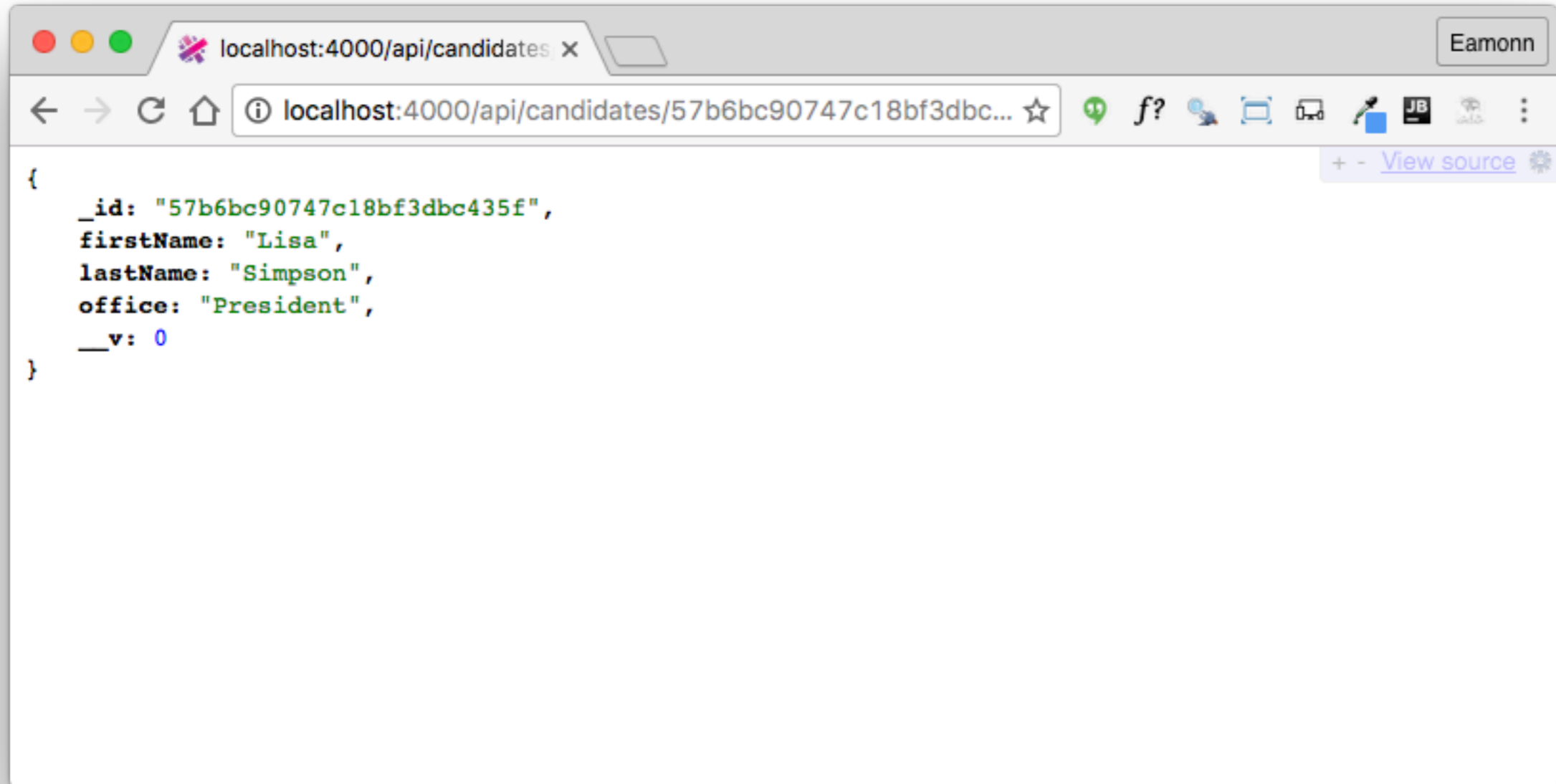
```
{ method: 'GET', path: '/api/candidates/{id}', config: CandidatesApi.findOne },
```

- Object ID passed as part of path

candidatesapi.js

```
const Candidate = require('../models/candidate');
exports.findOne = {
  auth: false,
  handler: function (request, reply) {
    Candidate.findOne({ _id: request.params.id }).then(candidate => {
      reply(candidate);
    }).catch(err => {
      reply(Boom.notFound('id not found'));
    });
  },
}
```

Get Candidate (singular) Endpoint



The screenshot shows a web browser window with a REST client interface. The address bar displays the URL `localhost:4000/api/candidates/57b6bc90747c18bf3dbc...`. The response body is a JSON object representing a candidate.

```
{
  _id: "57b6bc90747c18bf3dbc435f",
  firstName: "Lisa",
  lastName: "Simpson",
  office: "President",
  __v: 0
}
```

Boom Error Messages



A screenshot of a web browser window. The address bar shows the URL `localhost:4000/api/candidates/57b6bc90747c18bf3d2...`. The page content displays a JSON error object:

```
{
  statusCode: 404,
  error: "Not Found",
  message: "id not found"
}
```

The browser's developer tools console at the bottom left shows the word "error".

Exercising Endpoints: Chrome

The screenshot shows the Chrome DevTools interface with the Network tab selected. The browser's address bar shows the URL `localhost:7000/users`. The Network tab displays a single request named `users` with a status of `200`, type of `document`, and a time of `8 ms`. The size of the response is `132 B`. The waterfall view shows a single vertical bar for the request. The summary at the bottom indicates `1 requests | 132 B transferred | Finish: 8 ms | DOMContentLoaded: 16 ms | Load: 16 ms`.

Name	Status	Type	Initiator	Size	Time	Waterfall	
users	200	document	Other	132 B	8 ms		100.00 ▲

1 requests | 132 B transferred | Finish: 8 ms | DOMContentLoaded: 16 ms | Load: 16 ms

Exercising Endpoints: Postman

The screenshot displays the Postman application interface. The top navigation bar includes 'Runner', 'Import', 'Builder', and 'Team Library'. The main workspace is divided into three sections:

- History:** Shows a list of recent requests, including 'localhost:4000/api/candidates' and 'localhost:4000/api/candidates/57b6bc90747c18bf3dbc435f'.
- Request Builder:** Shows a GET request to 'localhost:4000/api/candidates' with a 'No Auth' type. The 'Send' button is highlighted in blue.
- Response View:** Shows the response body in JSON format, with a status of '200 OK', time of '28 ms', and size of '438 B'. The response is displayed in a 'Pretty' view.

```
1 [
2   {
3     "_id": "57b6bc90747c18bf3dbc435f",
4     "firstName": "Lisa",
5     "lastName": "Simpson",
6     "office": "President",
7     "__v": 0
8   },
9   {
10    "_id": "57b6bc90747c18bf3dbc4360",
11    "firstName": "Donald",
12    "lastName": "Simpson",
13    "office": "President",
14    "__v": 0
15  }
16 ]
```

Postman

Runner Import Builder Team Library SYNC OFF Eamonn d... No environment

Search

History Collections

All Me Team

donation-web 2 requests

GET get all candidates

GET get one candidate

Postman Echo 21 requests

get all candidates get one candidate

GET localhost:4000/api/candidates/57b6bc90747c18bf3 Params Send Save

Authorization Headers Body Pre-request Script Tests Manage Cookies Generate Code

Type No Auth

Body Cookies Headers (7) Tests Status: 200 OK Time: 40 ms Size: 330 B

Pretty Raw Preview JSON Save Response

```
1 {
2   "_id": "57b6bc90747c18bf3dbc435f",
3   "firstName": "Lisa",
4   "lastName": "Simpson",
5   "office": "President",
6   "__v": 0
7 }
```

Exercising Endpoints: Restlet Client

The screenshot displays the Chrome Web Store page for the application "Restlet Client - REST API Testing". The page includes a search bar, a "Featured" section, and a navigation menu with tabs for OVERVIEW, REVIEWS, SUPPORT, and RELATED. The main content area shows the application's interface, which is divided into several sections:

- CLIENT:** A sidebar with a search bar and a list of requests. The list includes requests to `HTTPS://MY-COMPANY.APISPARK.NET:443` and `HTTP://SERVICES.ODATA.ORG`.
- REQUEST:** A section for configuring and sending HTTP requests. It shows a POST request to `https://my-company.apispark.net:443/v1/contacts` with headers for Authorization and Content-Type, and a JSON body.
- RESPONSE:** A section showing the response to the request, including headers and a JSON body.

Additional information on the right side of the page includes:

- Runs Offline
- Compatible with your device
- Visually create and run single HTTP requests as well as complex scenarios. Automate your API tests with our CI/CD plugin.
- [Please scroll down for permissions explanation]
- Restlet Client is designed and developed by developers for developers to make direct HTTP / REST resource discovery, testing and test automation easier. Restlet Client's main functions include:
- [Website](#)
- [Report Abuse](#)
- Additional Information
 - Version: 2.10.1
 - Updated: October 2, 2017
 - Size: 4.64MiB
 - Language: English

At the bottom of the page, there is a "RELATED" section with several other applications:

- HTTP Spy (54 reviews)
- User-Agent Switcher (326 reviews)
- New Tab Redirect (3075 reviews)
- Custom Google™ Background Image (57307 reviews)

Below the "RELATED" section, there are more application cards: Momentum (PERSONAL DASHBOARD), Pinterest Save Button, and LastPass: Free Password Manager.

REQUEST

METHOD

POST

SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]]

http://localhost:7000/users

Send

length: 27 bytes

▶ QUERY PARAMETERS

HEADERS [?] ↓½

Form ▼

Cont : application/json ×

+ Add header

🔗 Add authorization



▶ BODY [?]

Text ▼

```
1 {  
2   "firstname" : "homer",  
3   "lastname" : "Simpson",  
4   "email" : "homer@simpson.com",  
5   "password" : "secret"  
6 }
```

Text | [JSON](#) | XML | HTML

Enable body evaluation

🗑 length: 105 bytes

200 OK

HEADERS [?]

pretty ▼

Date: 2017 Oct 14 17:22:59
Server: Javalin
Content-T... application/json
Content-L... 150 bytes

▼ COMPLETE REQUEST HEA...

pretty ▼

Origin: chrome-extension://aejoelaoggembcahagimdiliamlcdfm
User-Agen... Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/61.0.3163.100 Safari/537.36
Content-T... application/json
Accept: /*/*
Accept-En... gzip, deflate, br
Accept-La... en-US,en;q=0.8,nb;q=0.6,ga;q=0.4,la;q=0.2

Note: [XHR](#) automatically adds headers like Accept, Accept-Language, Cookie, User-Agent, etc.

BODY [?]

pretty ▼

```
{  
  id: "105f8db6-ec5c-4740-b504-0cb64e6c468a",  
  firstname: "homer",  
  lastname: "Simpson",  
  email: "homer@simpson.com",  
  password: "secret",  
  activities: {}  
}
```

lines nums

length: 150 bytes