

Announcement

[Evgeny Shvarov](#) · Apr 29, 2020

ZPM and Open API Bonuses for REST API Programming Contest

Hi Developers!

As you know in the second contest we introduced technology bonuses. [Learn more.](#)

You can see what app got what bonuses in the Technology Bonuses menu:

Production Manager

REST API to manage IRIS Interoperability Productions.

Author: [Nikolay Soloviev](#)

Experts 11 Community 2

Tecnology Bonuses

Bonuses ^

- ZPM
- Open API spec

JSON-Filter

ObjectScript server side JSON filter.

And here I want to share with you which apps got the bonus. Here we go!

ZPM Module Bonus

To get the ZPM bonus contestants should have published a module in the community Package Manager.

Here are the projects which managed it:

Project	ZPM Command
Production Manager	install production-manager
JSON-Filter	install json-filter
iris-history-monitor	install iris-history-monitor
simple-spellchecker	install simple-spellchecker
isc-apptools-admin	install isc-apptools-admin

ZPM gives a very handy way to install the app, e.g. all the above modules could be tested with the following 3 commands:

1. Launch IRIS:

```
$ docker run --name my-iris -d --publish 9091:51773 --publish 9092:52773 intersystems
dc/irishealth-community:2020.2.0.196.0-zpm
```

2. Open IRIS terminal and launch ZPM:

```
$ docker exec -it my-iris iris session IRIS
```

```
USER>zpm
```

```
zpm:USER>
```

3. Install a module:

```
zpm:USER>install module-name
```

All these projects get one export point for the ZPM implementation! Congrats!

Open API spec

To get Open API spec bonus contestants should have introduced the `/spec` endpoint to their API which exposes OPEN API description of their REST API.

Here are projects which did it:

Project	Endpoint
Production Manager	/production/ <u>s</u> pec
JSON-Filter	/jsonfilterrest/ <u>s</u> pec
REST for Tasks on my Status Report	/crud/task/ <u>s</u> pec

All these projects get one export point for the Open API Spec! Congrats!

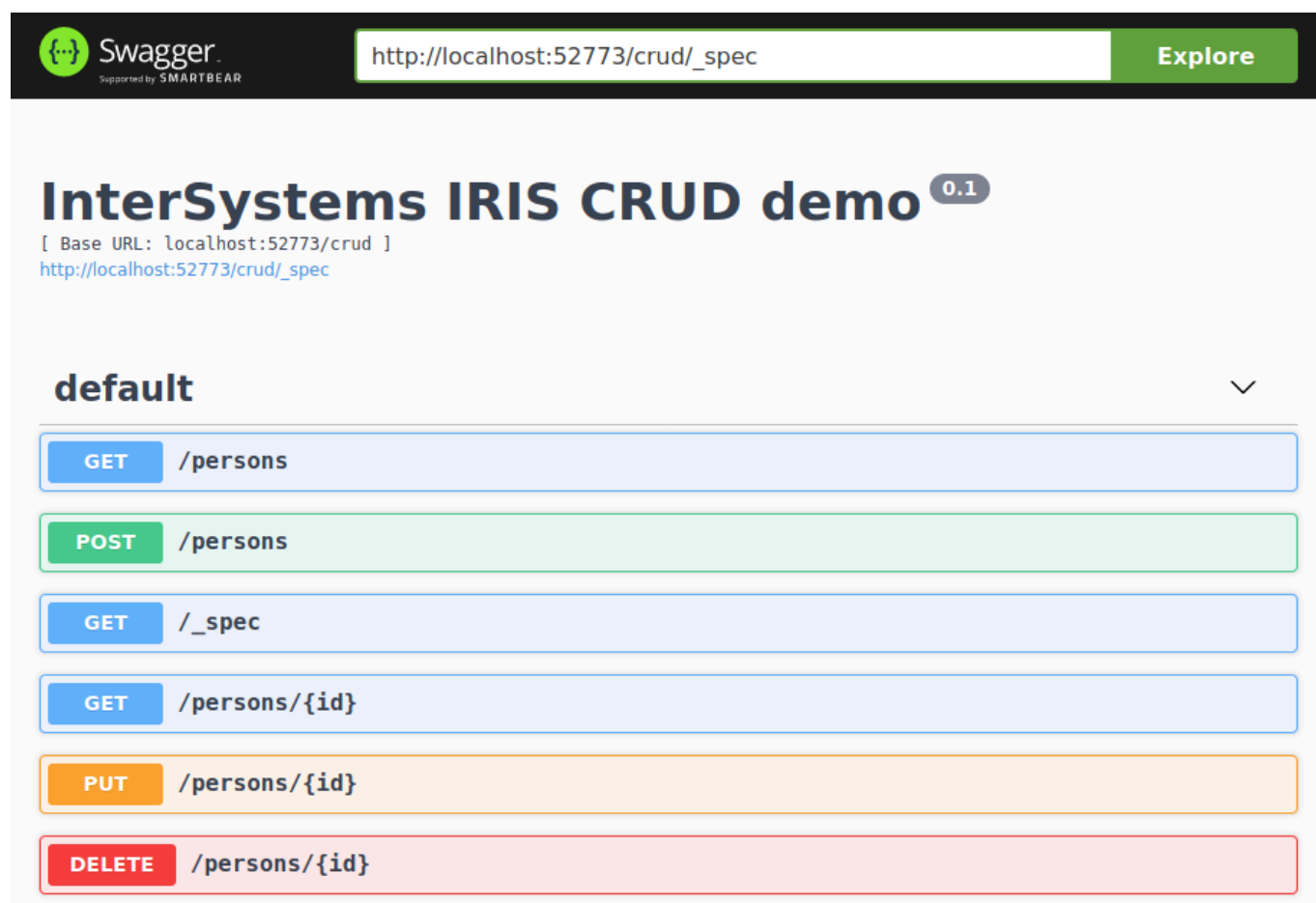
Open API spec can be easily read with Postman, or Swagger UI, or in IRIS, if you install [swagger-ui](#) module:

```
zpm:USER>install swagger-ui
```

And if you open:

localhost:52773/swagger-ui/index.html

and put the URL of the spec into it, and get the following UI page, e.g. like this one:



The image shows a Swagger UI interface for a REST API. At the top, there's a Swagger logo and a text input field containing the URL 'http://localhost:52773/crud/_spec', with an 'Explore' button to its right. Below this, the title 'InterSystems IRIS CRUD demo' is displayed with a version '0.1' badge. Underneath the title, the base URL is specified as '[Base URL: localhost:52773/crud]' and a link to the spec is provided: 'http://localhost:52773/crud/_spec'. A section titled 'default' with a dropdown arrow contains a list of API endpoints, each with a colored button indicating the HTTP method: GET for '/persons', POST for '/persons', GET for '/_spec', GET for '/persons/{id}', PUT for '/persons/{id}', and DELETE for '/persons/{id}'.

Spec-first approach

To get spec-first bonus contestants should apply an app where REST API on the IRIS side is being generated from Open API spec prepared in advance.

Nobody did this!

Nevertheless, this is a great approach to develop REST APIs! I hope you'll use it in your development!

Good luck in the voting and healthy coding!

[#Contest](#) [#InterSystems Package Manager \(IPM\)](#) [#REST API](#) [#InterSystems IRIS](#) [#Open Exchange](#)

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