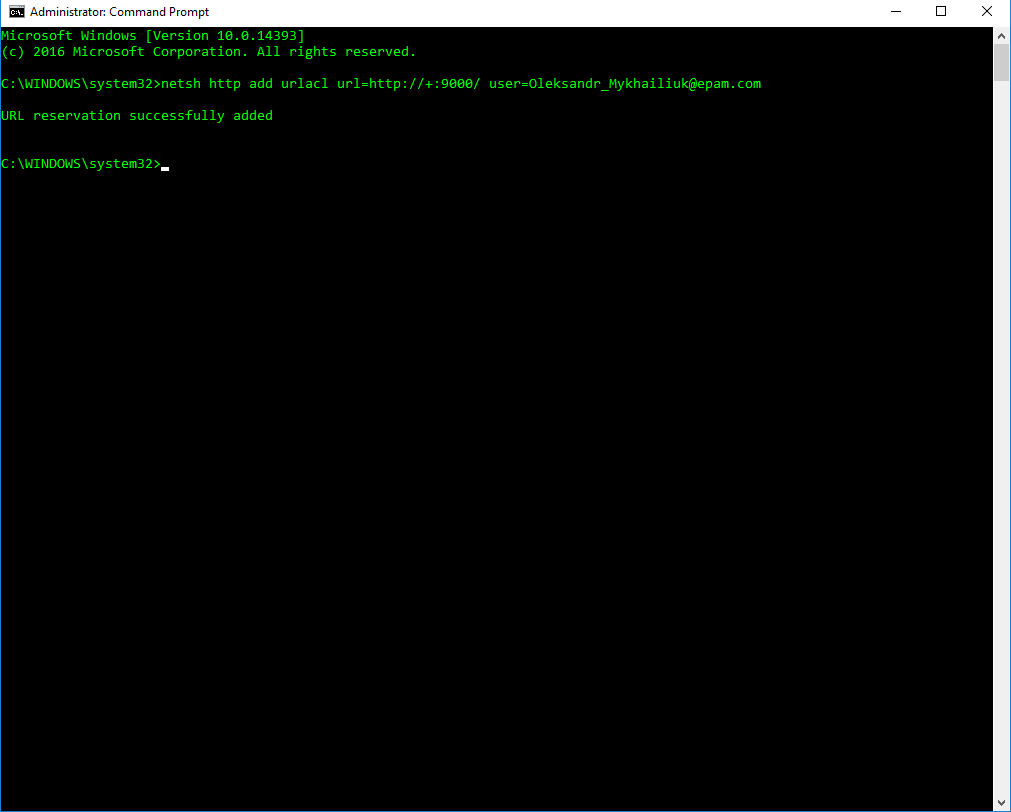
**Part 1**

**Selfhost**

To use selfhost firstly I need give permissions to reserve the URL:



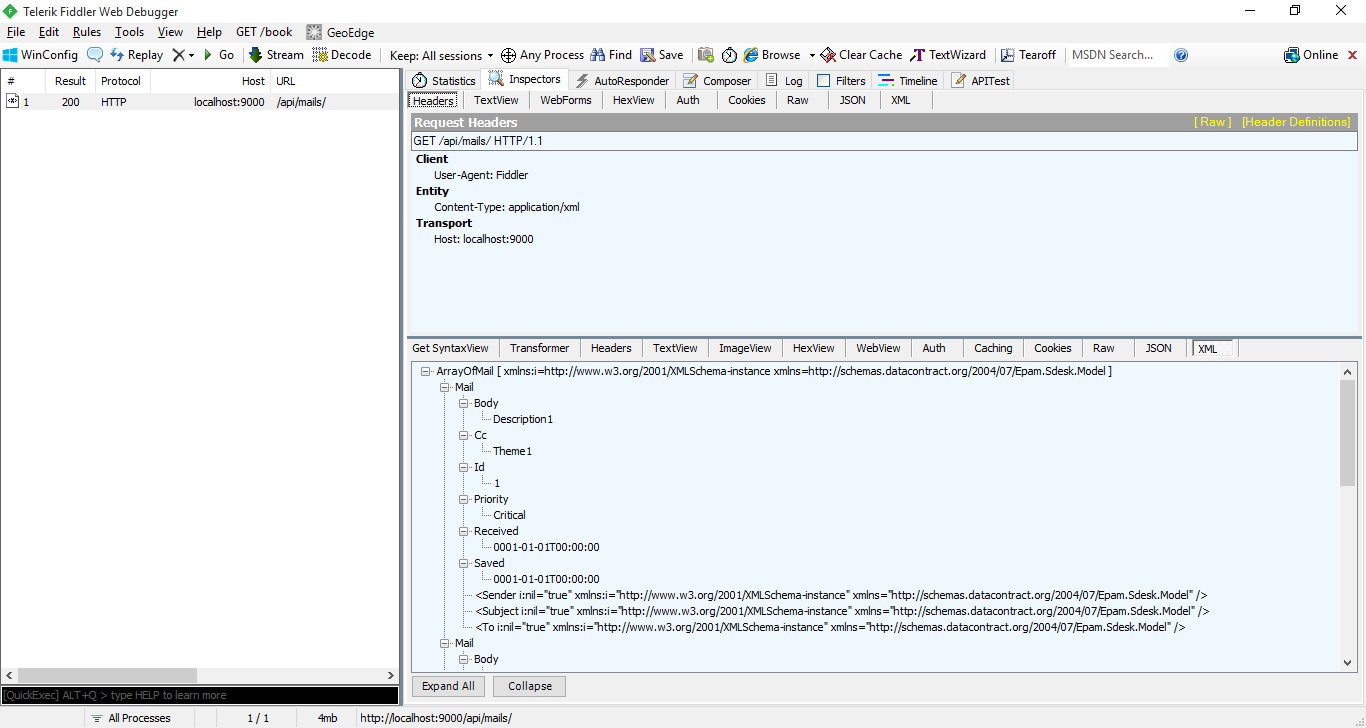
**Webhost**

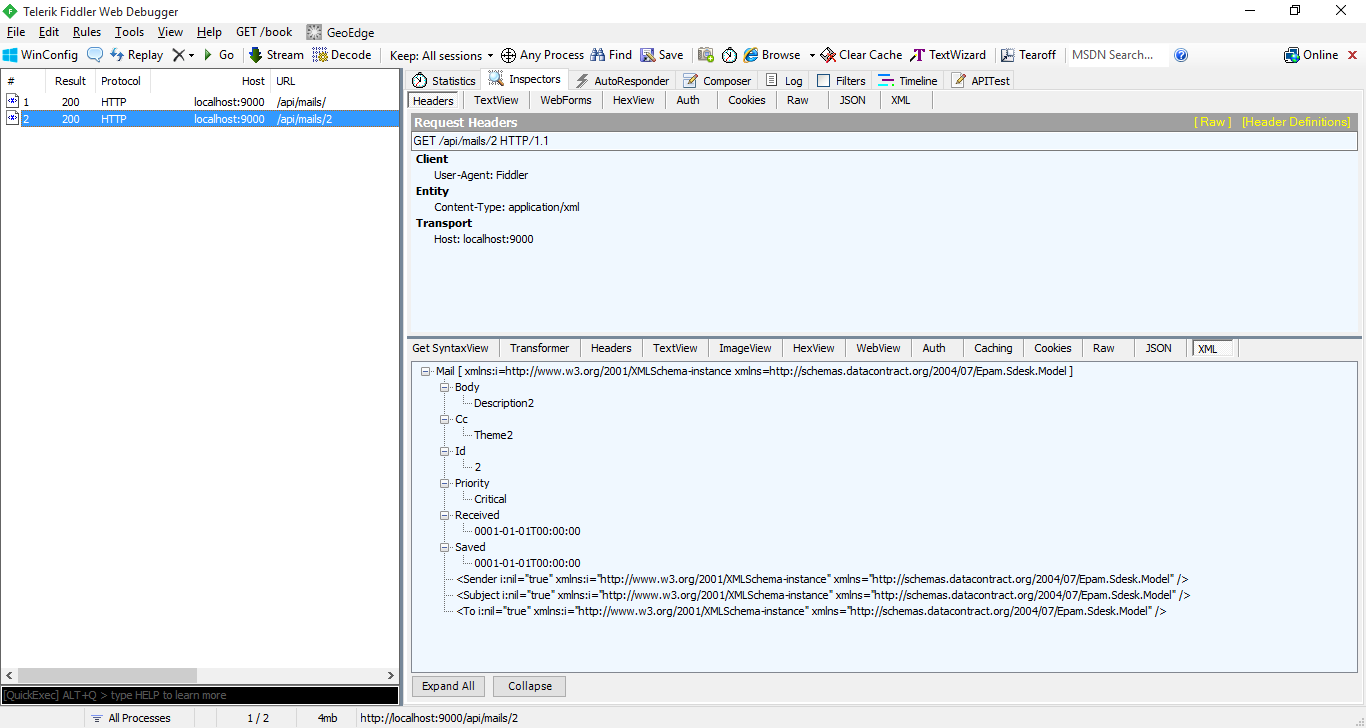
I think that VS start by default on IIS, which can work like webhost.

**Showing response**

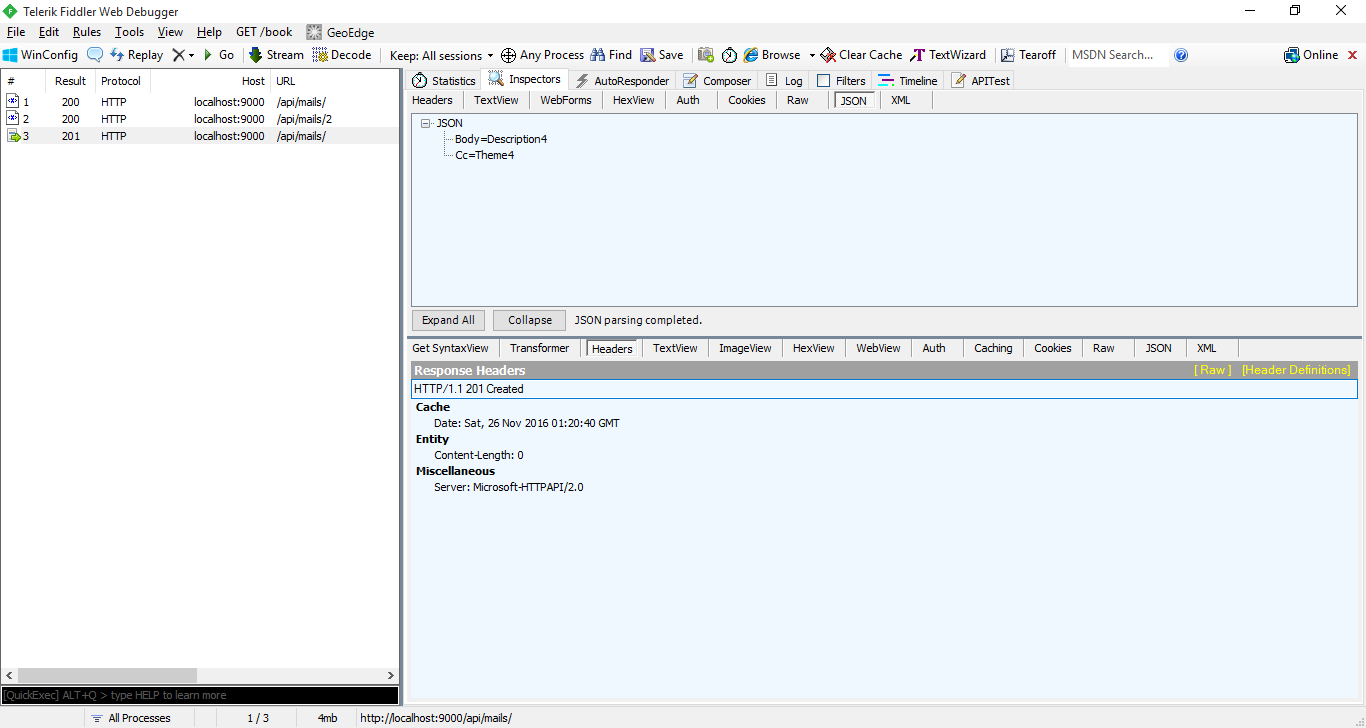
Response type depend on content-type of request so I use this. Examples of all operations to mails returning xml (it also examples of using selfhost):

1). Get all operation

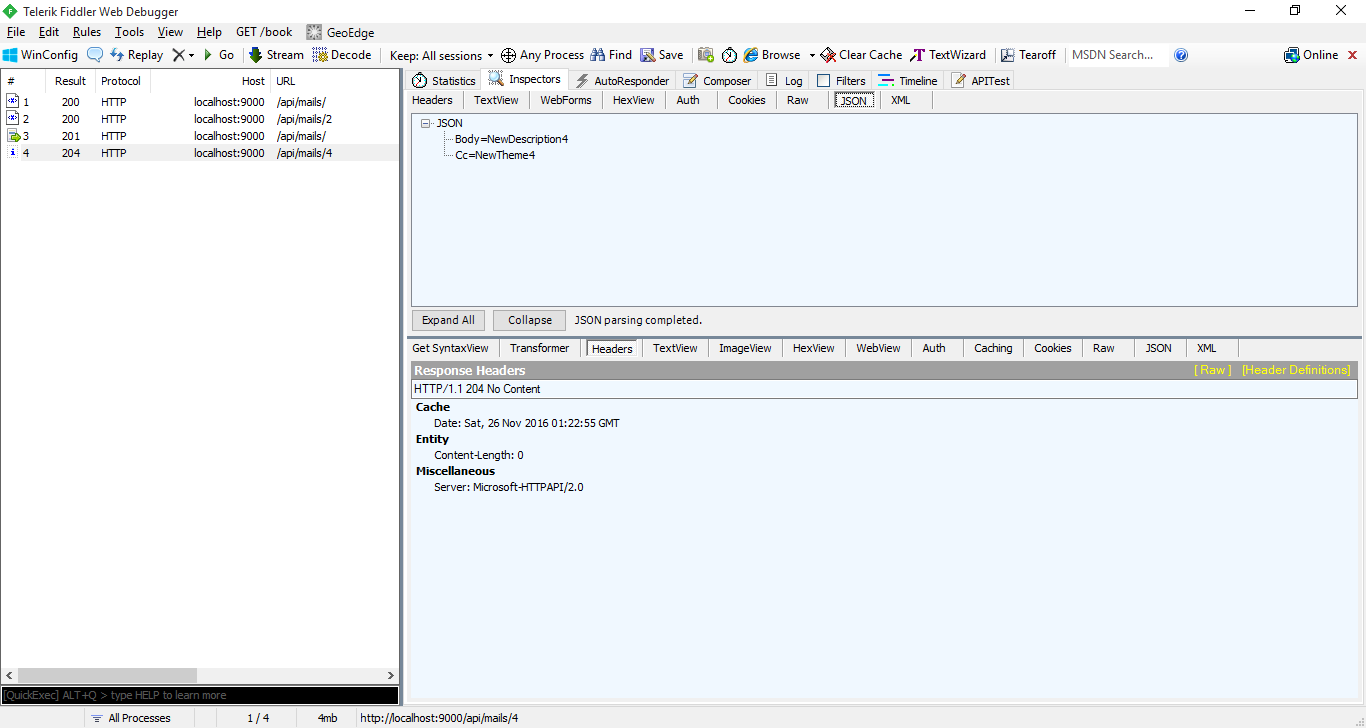
2) Get one mail

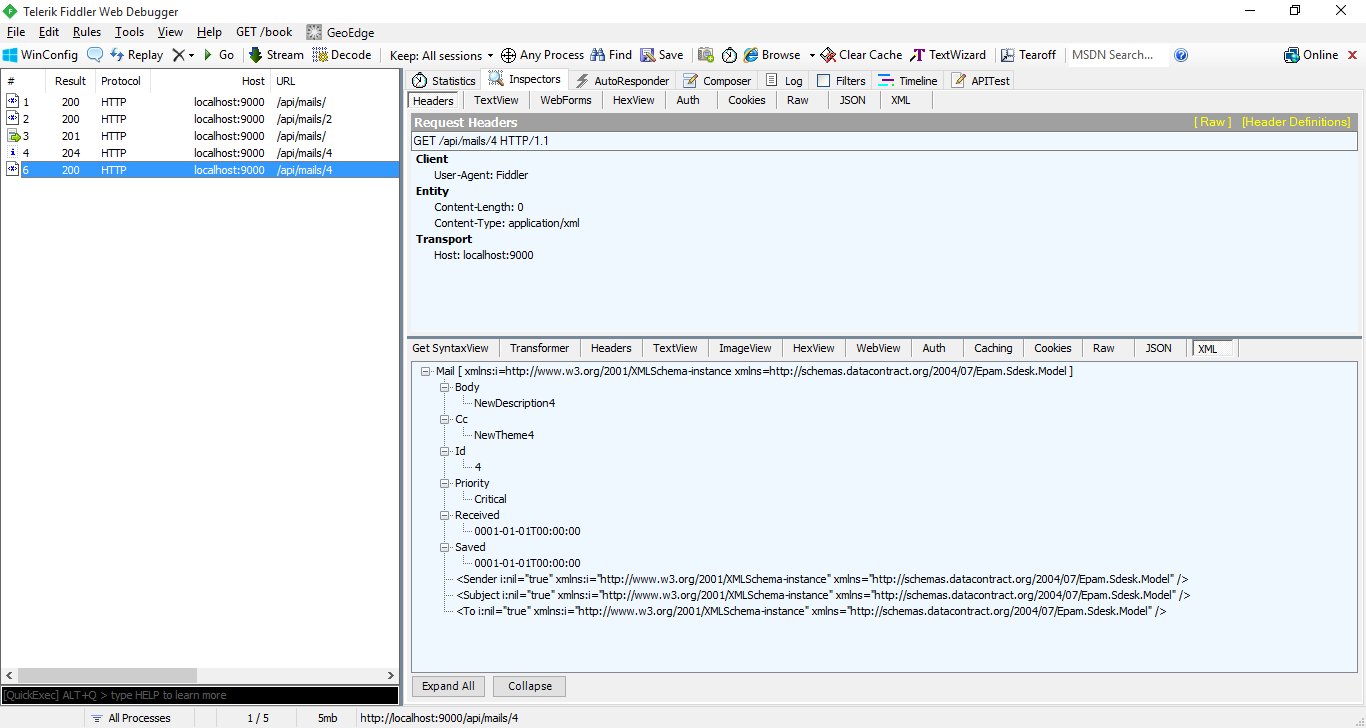


3) Post operation

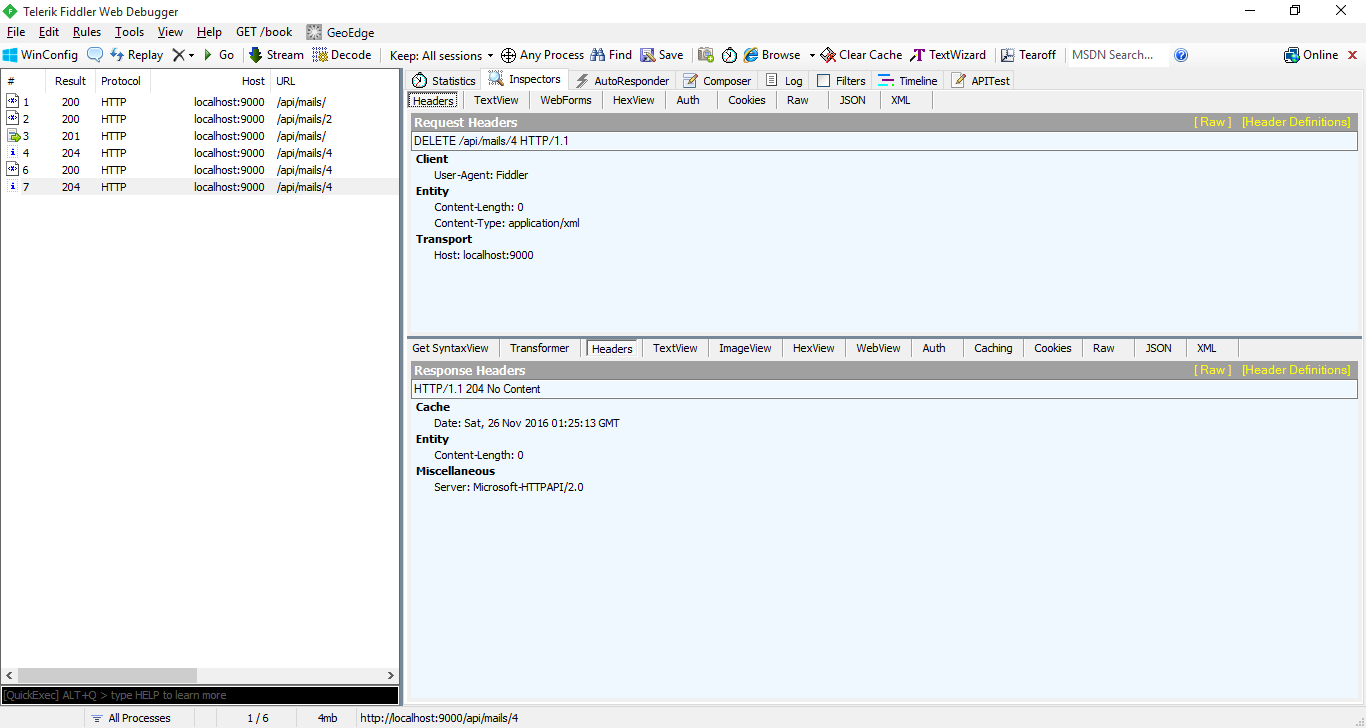


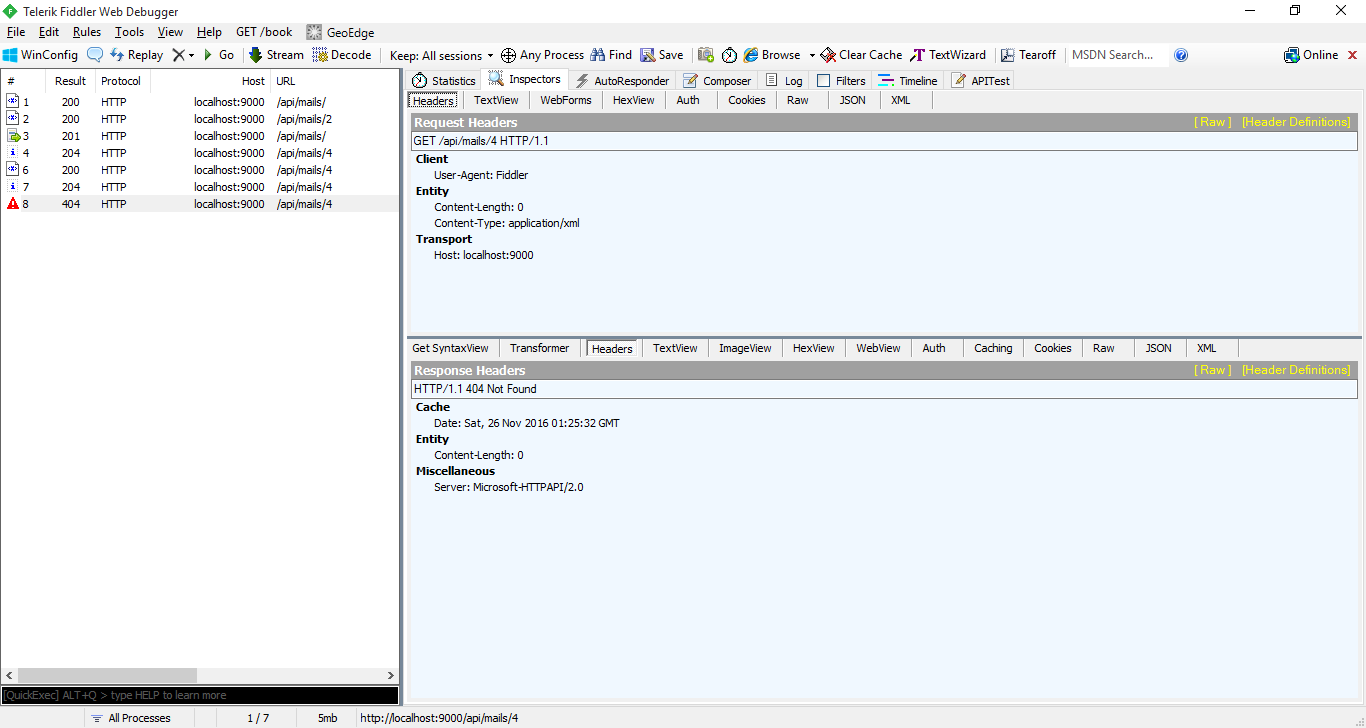
4) Put operation

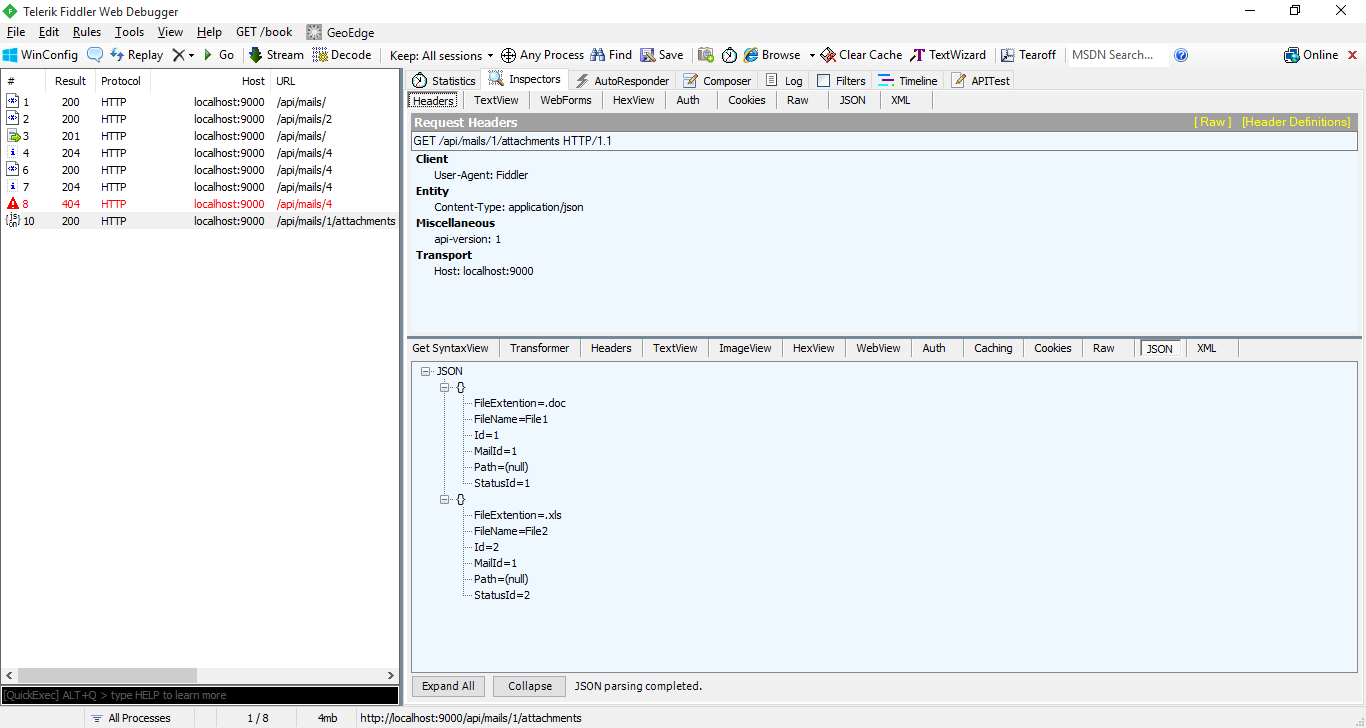


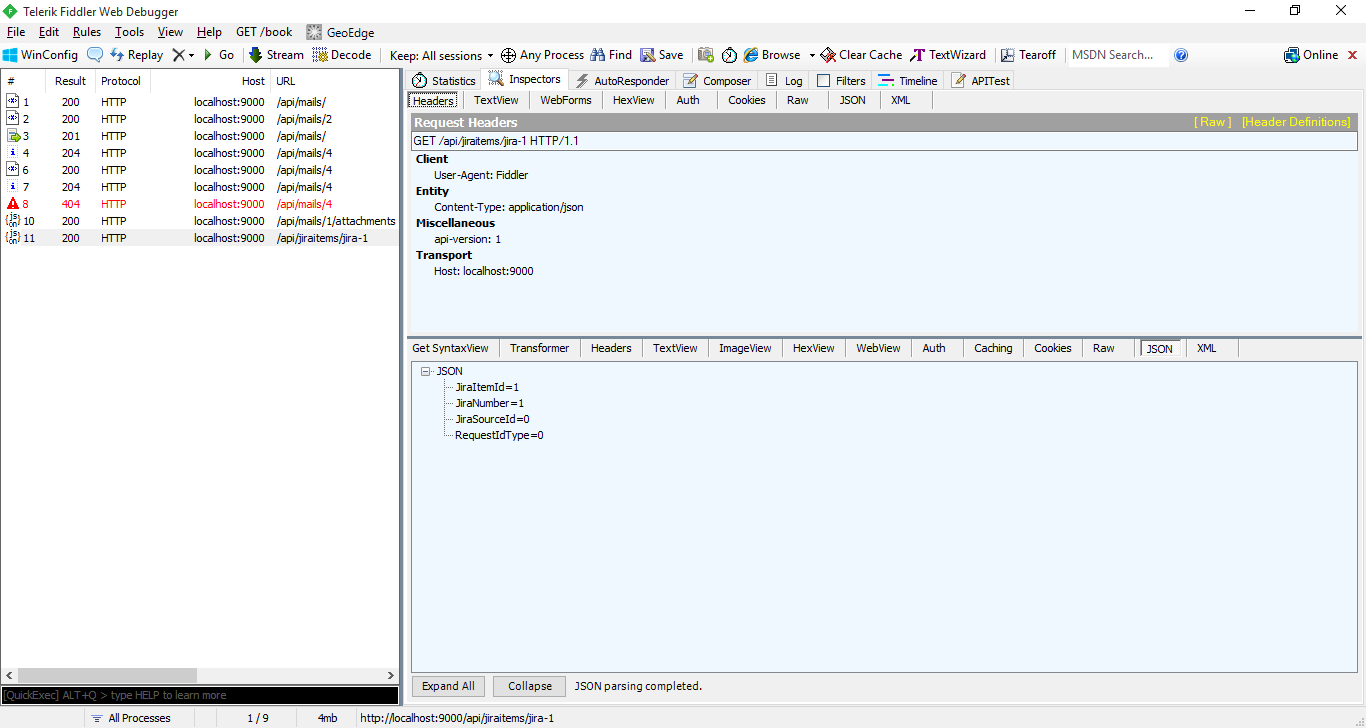


5) Delete operation



6) Examples of json response:



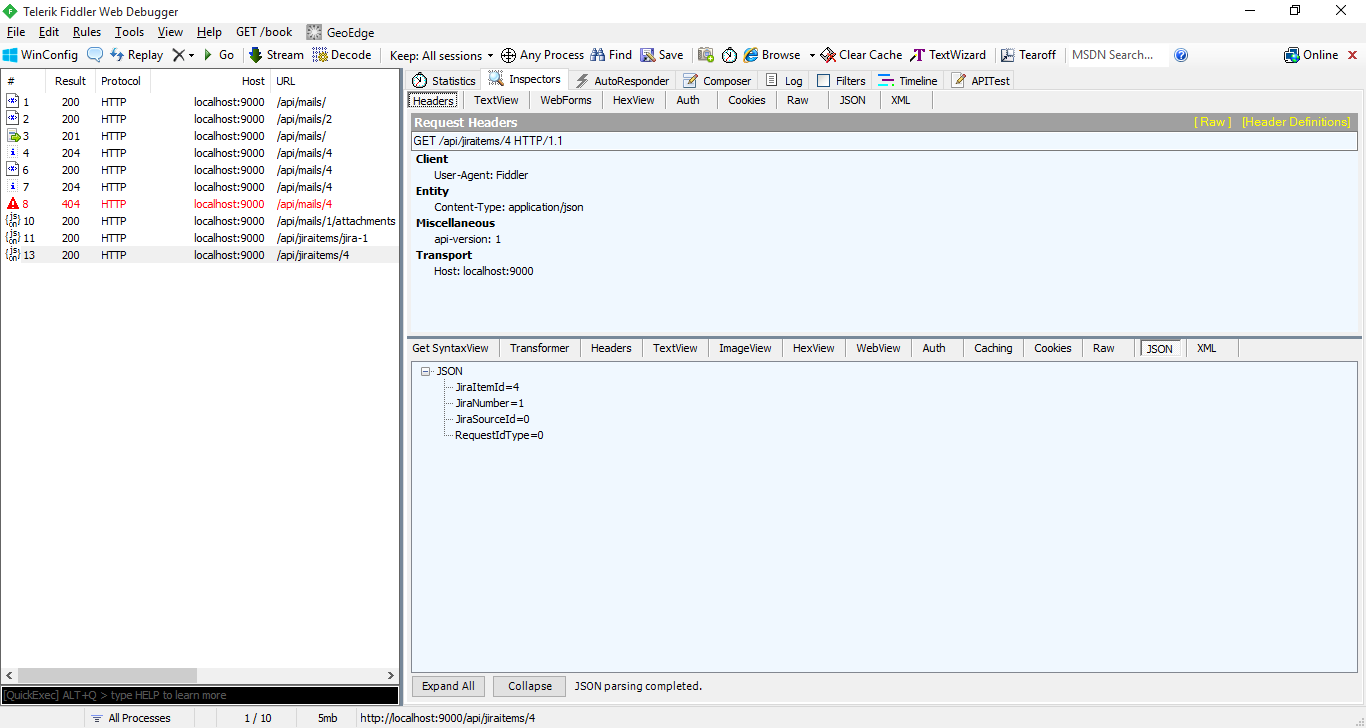


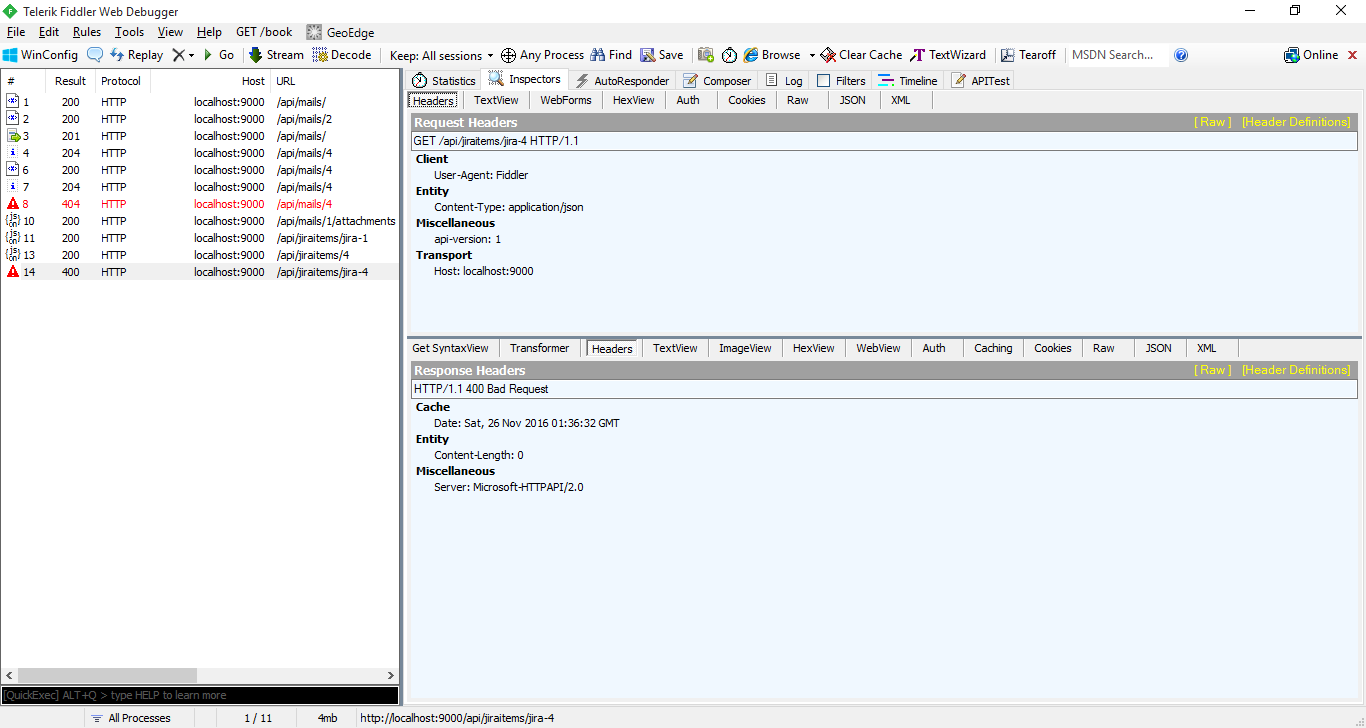
**Part 2**

As you can see, I already return response with meaningful code.

**Part 3**

I decide to create constraint, which check that id is in range between zero and some max value (in project it 3). Examples:

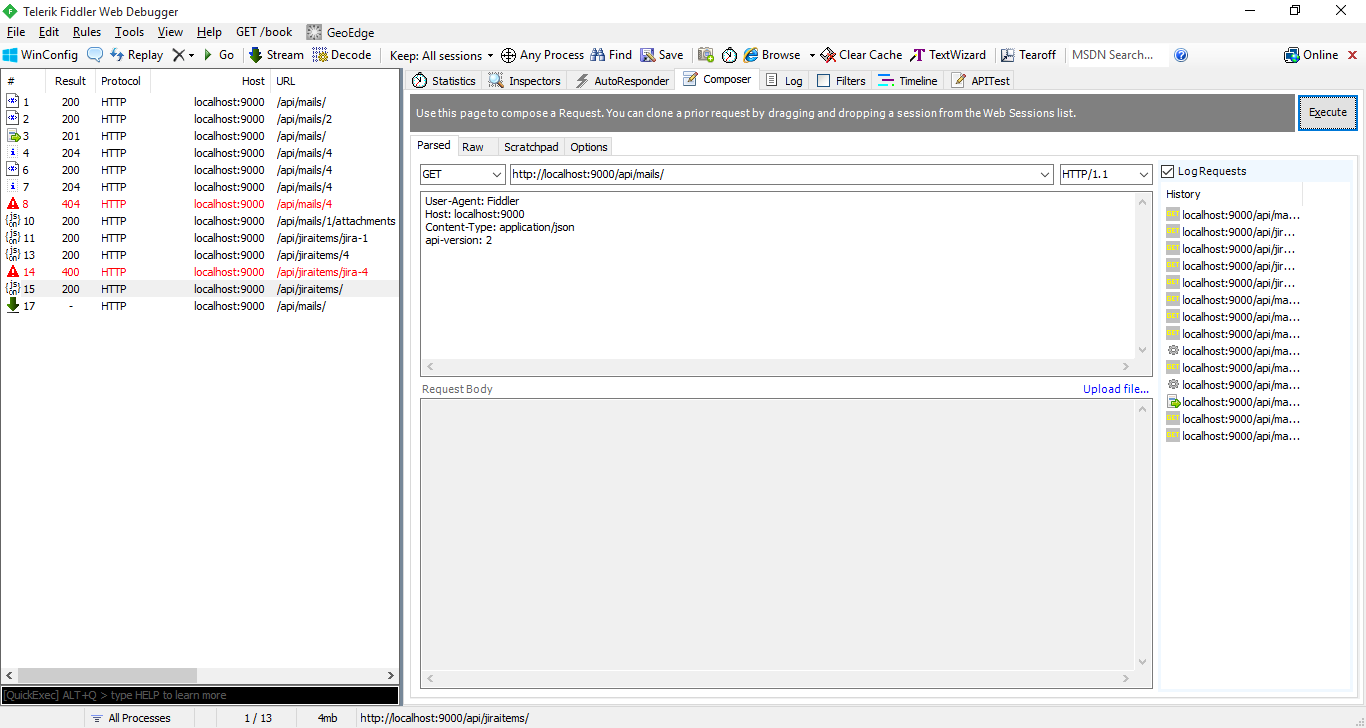


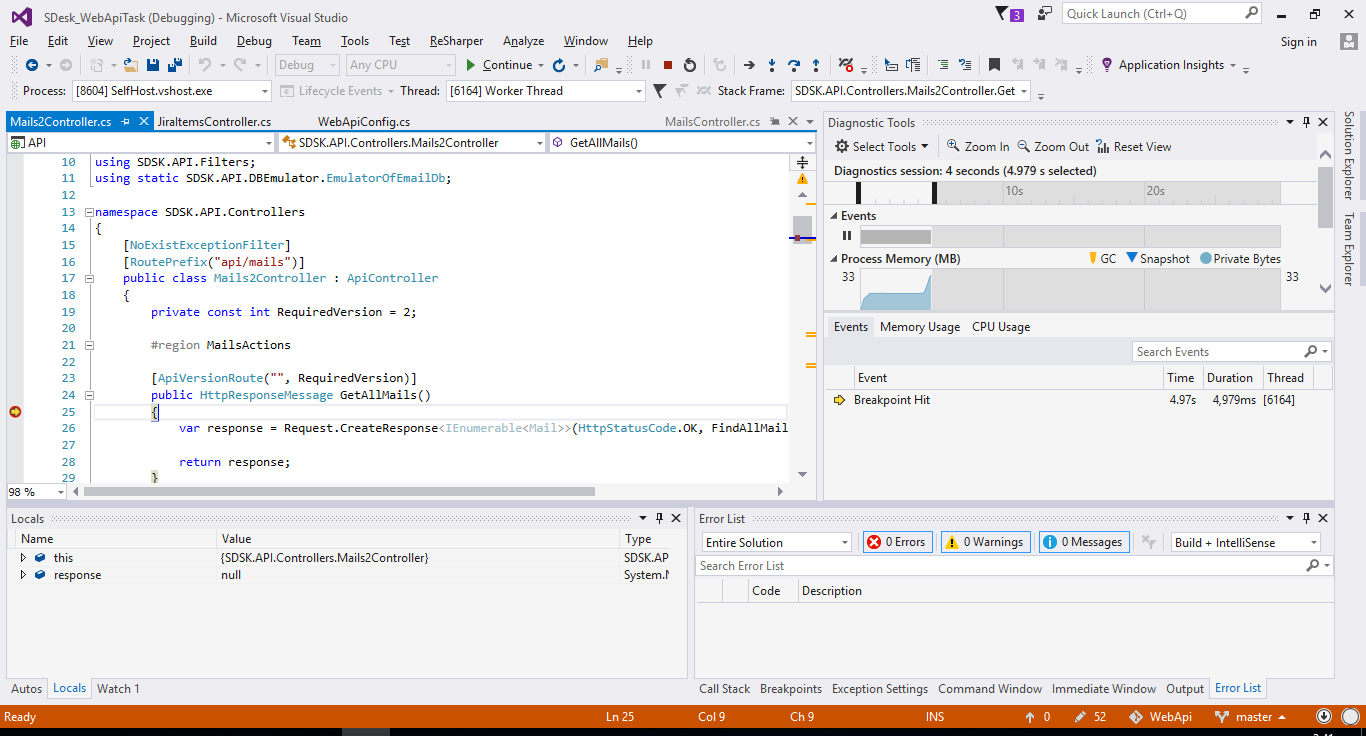


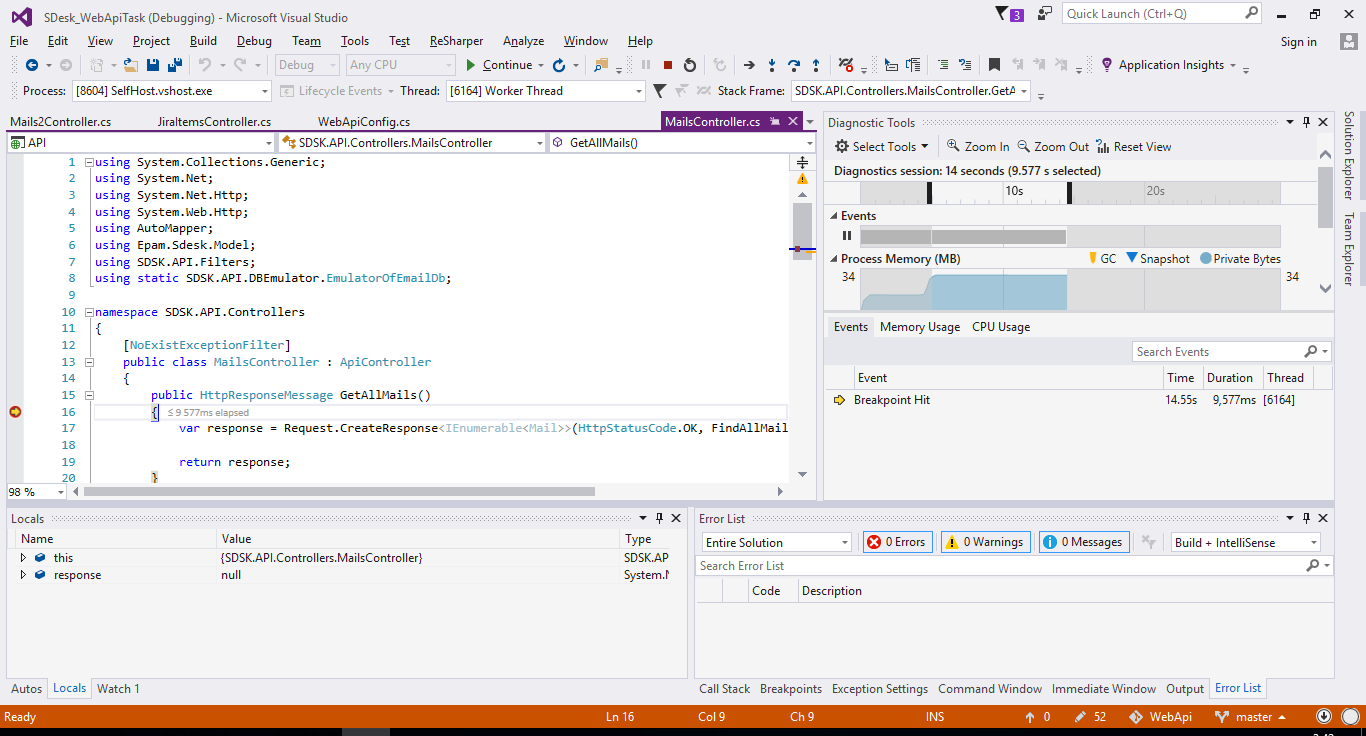
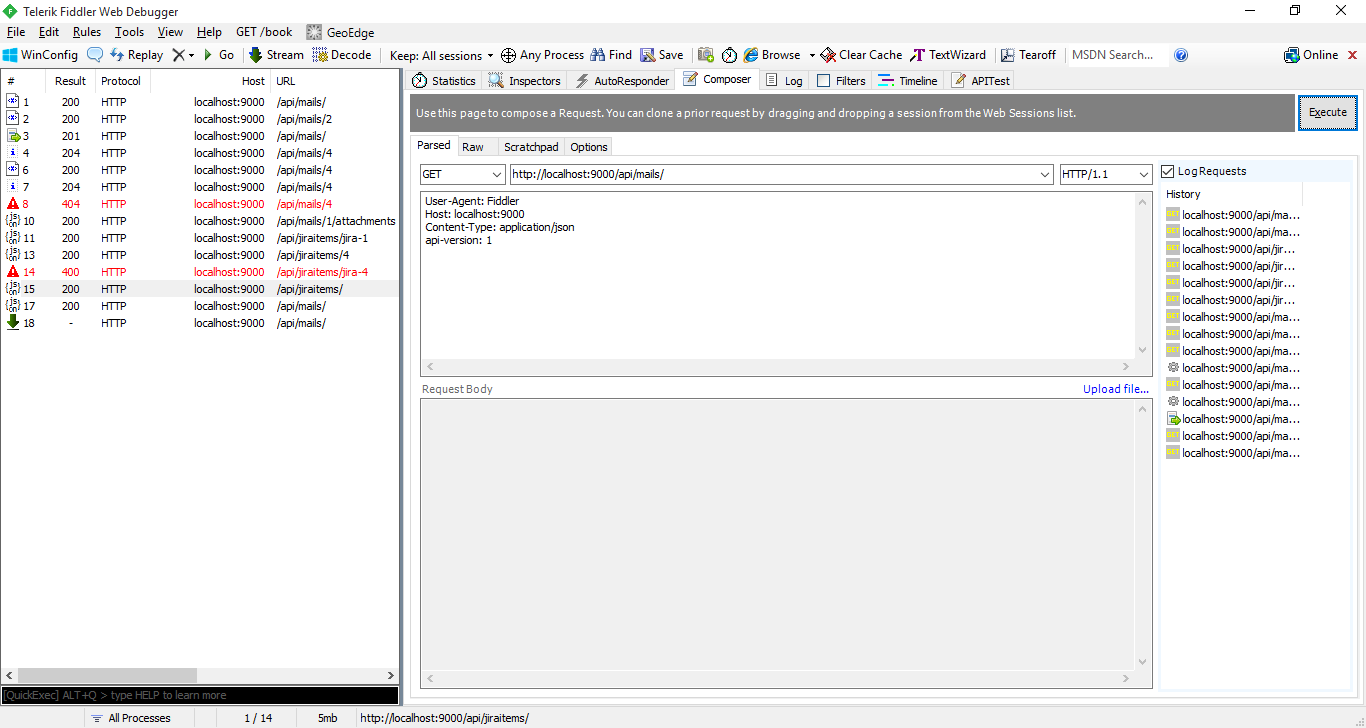
**Task 4**

I make this task.

Api-version : 2



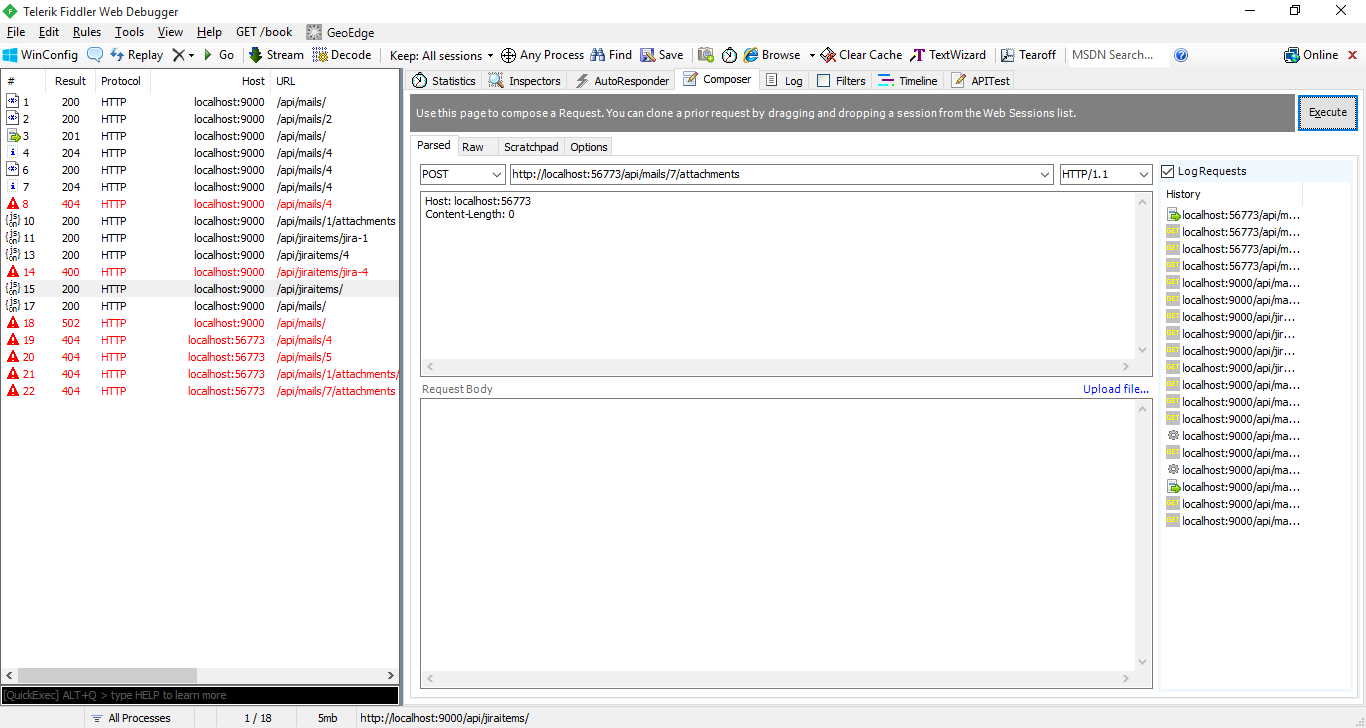


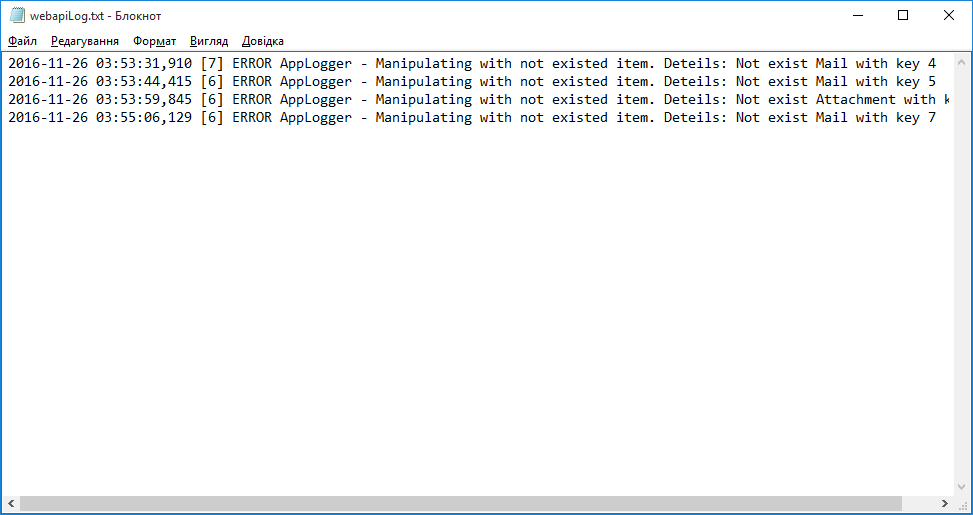
Api-version : 1

But here I have problems with attachments. I find this notice : "Web API (1.x-2.x) does not support multiple attribute routes with the same path on different controllers". So it impossible to maintain old and new routes. I try use route order, but seems it work between actions in one controller.

**Task 5**

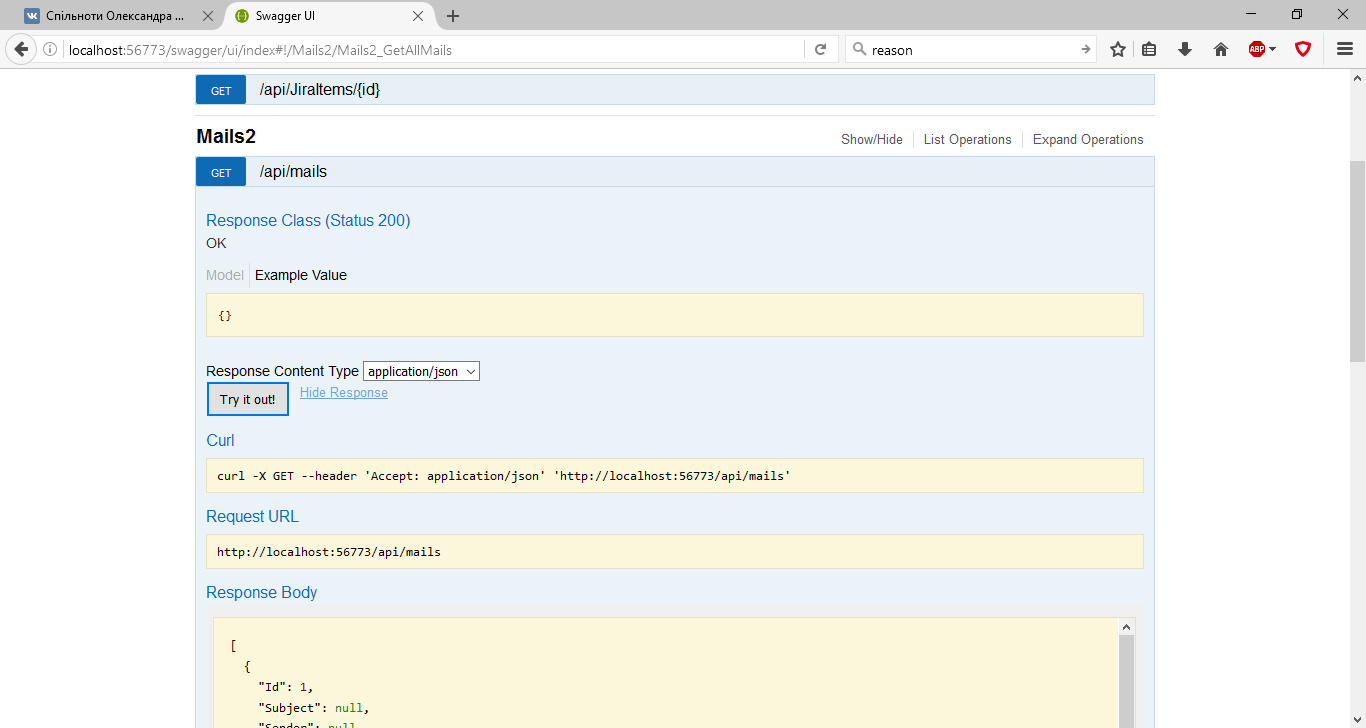
I make logs when user try to manipulate with no exist item. I make this in appropriate exception filter. Examples (it also example of using build-in IIS – webhost):

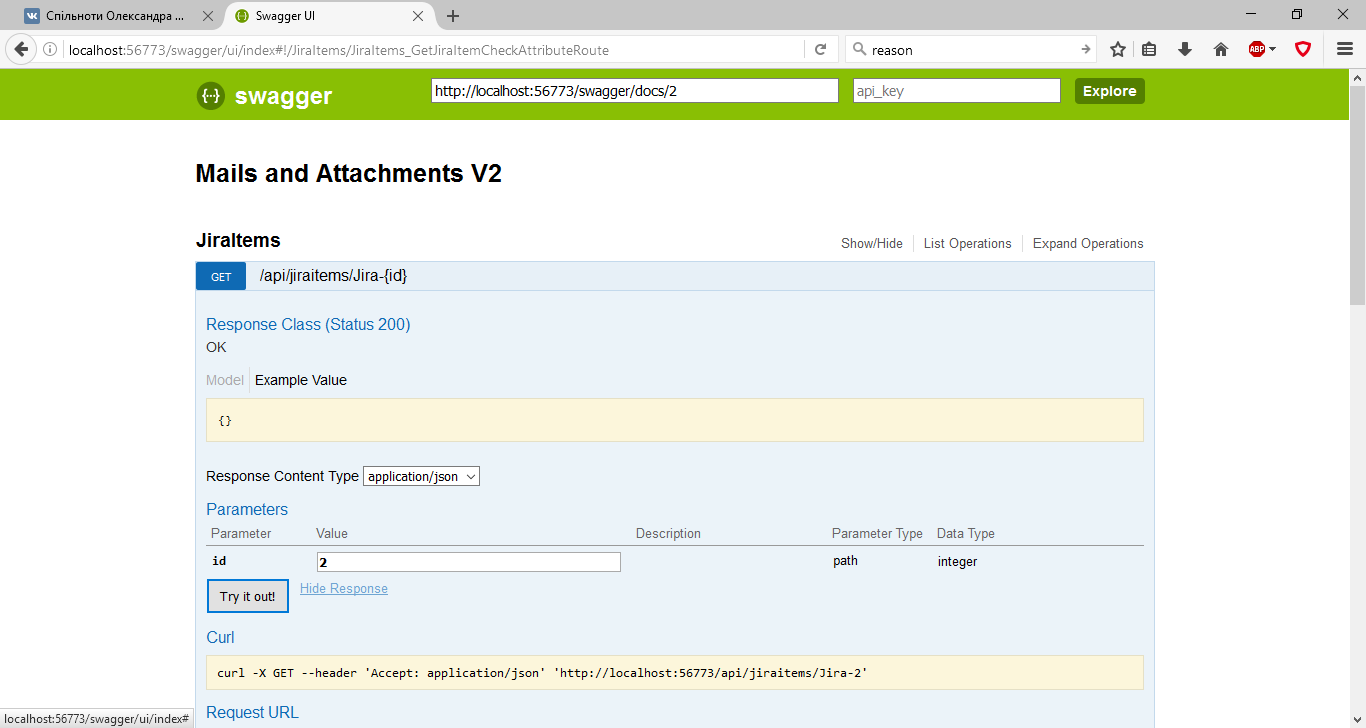




**Task 6**

Example of swagger:

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