

Product manual for Mimic service

About the product:

Mimic service is a virtual learning service using a web-based platform. The purpose for this mimic service is to simulate the behaviour of any http service. It has different functions that helps users to learn, unlearn, relearn different requests and responses, letting them to reset states as well as terminate the mimic service.

Key Features:

- Learns to respond according to requests, with or without using the form
- Remove the previous saved response
- Auto detects the mime type
- Behaves differently according to the current internal state of the service
- Learns sequence of responses to the same request
- Saves the defined requests and responses
- Can be used by any http application or a web browser
- Learn complex responses faster
- View all responses that Mimic have learned

Installation and Run:

If you are an Window user :

Simply download *mimic.jar* from ITHS and double click *mimc.jar*. If *mimic.jar* file has been updated, then the old version should be replaced with the latest version.

If you are an Linux/Mac user:

Please type: **java -jar mimic.jar**

It uses port 8080 by default, to use another port for example 1235, use the following command: **java -jar mimic.jar -p 1235**

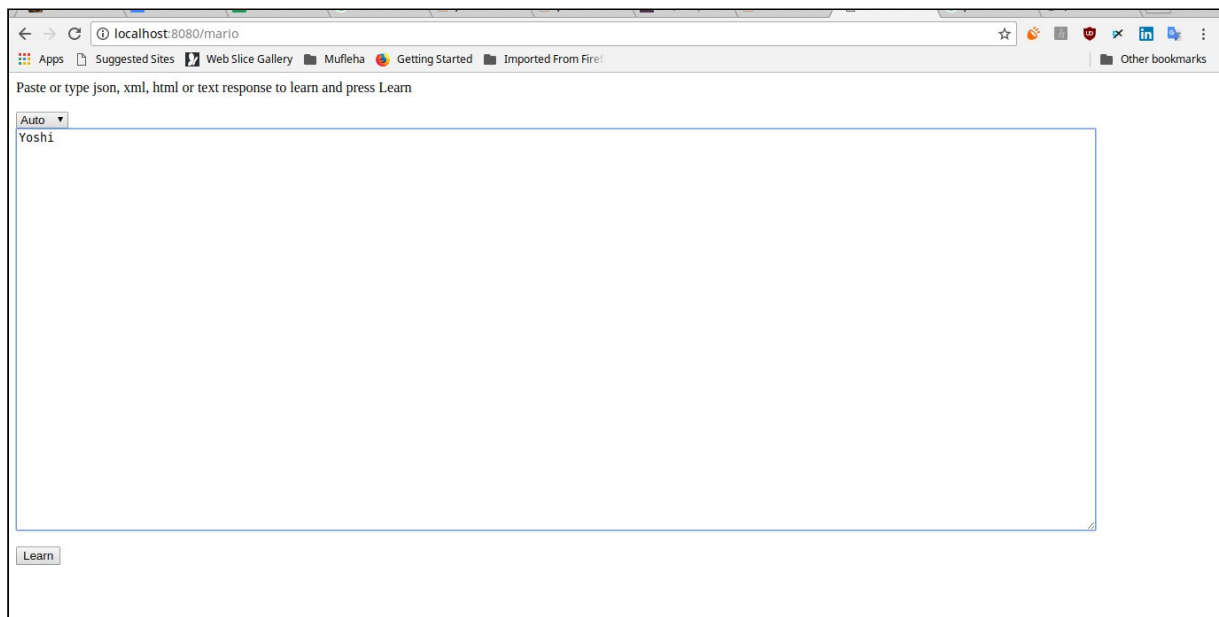
A web browser or any http application can be used to access mimic service.

How to use mimic service:

Learn a response:

To learn a response using the form:

1. Send any http command as request to get a form as response, for example:
<http://localhost:8080/Mario>
2. Fill in any response in the form.



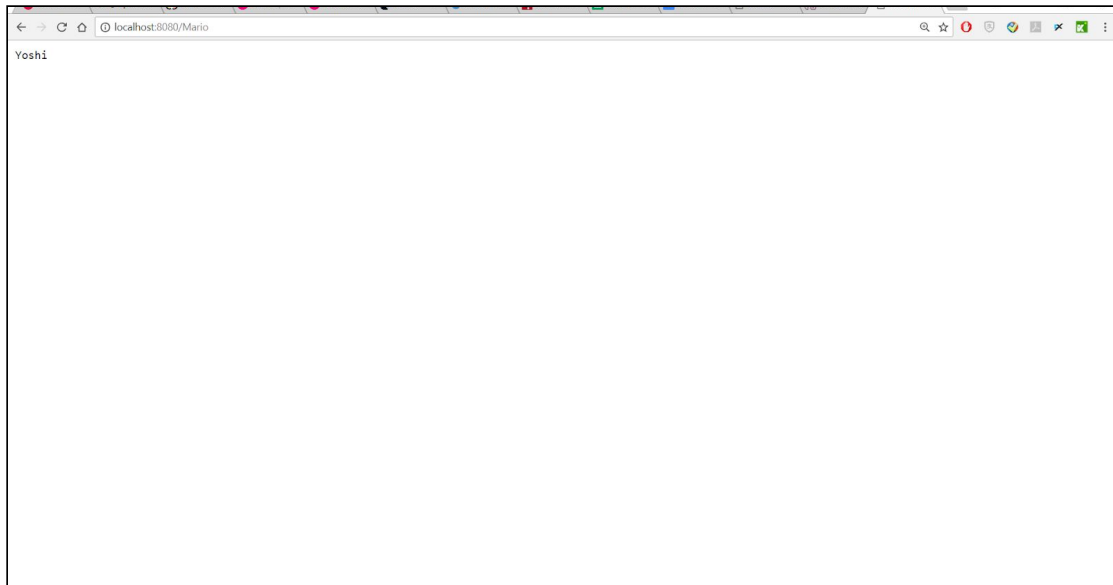
The screenshot shows a web browser window with the address bar set to `localhost:8080/mario`. Below the address bar, there are several bookmark icons and a search bar. The main content area of the page contains the text "Paste or type json, xml, http or text response to learn and press Learn". Below this text is a large text input field. The input field has a dropdown menu on the left with "Auto" selected. The text "Yoshi" is entered into the input field. At the bottom left of the input field, there is a "Learn" button.

3. Click 'Learn'.



The screenshot shows a web browser window with the address bar set to `localhost:8080/learn`. The main content area of the page displays the text "OK".

4. Trigger the request you send previously, which is 'Mario' to get the response that mimic have learned.

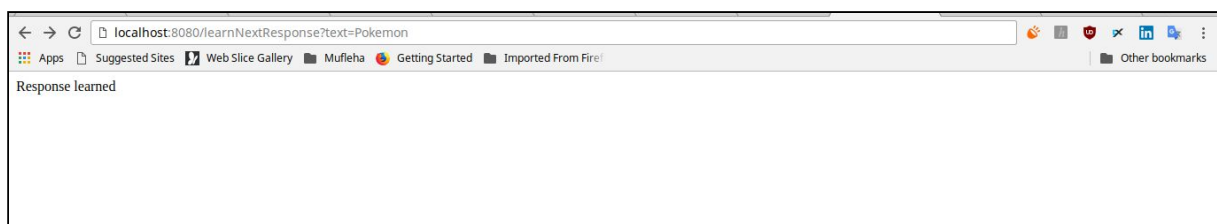


To learn a response without using the form:

1. Define a response before triggering a request to prevent the form from appearing by using the following command: e.g.

<http://localhost:8080/learnNextResponse?text=Pokemon>

Any arguments can be given after 'text' as your response.



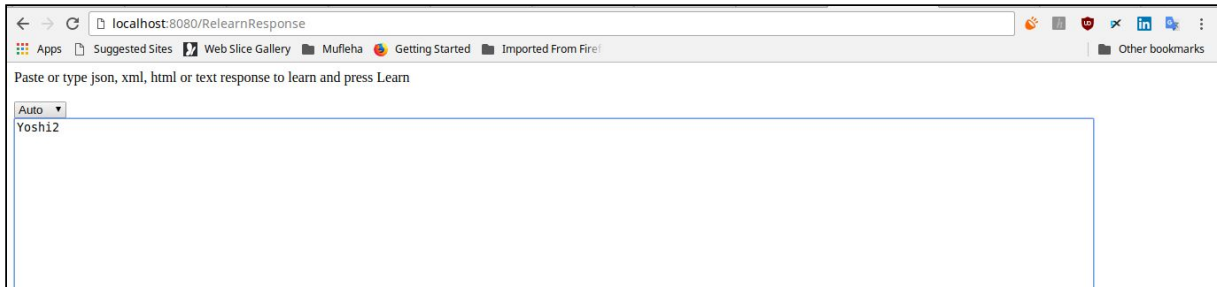
2. Trigger the response by giving an request (could be any request) after you see 'Response learned' showing up:

Using this format: <http://localhost:8080/Pikachu>



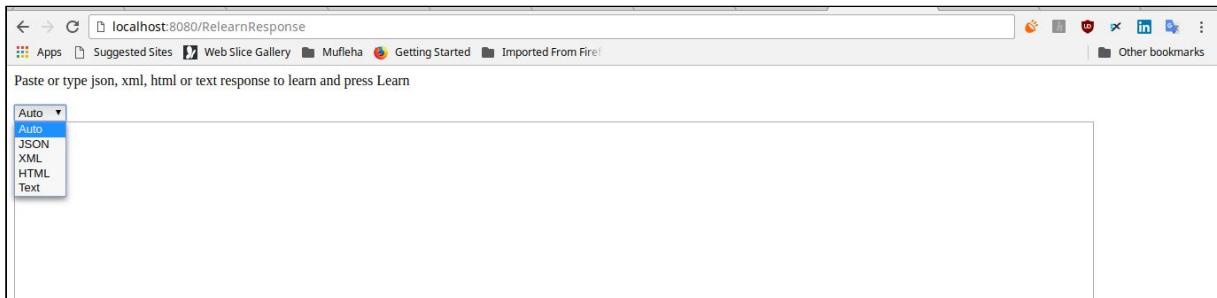
Replace a response:

1. To replace a learned response with a new one, use 'RelearnResponse', fill in the new response and click "Learn":



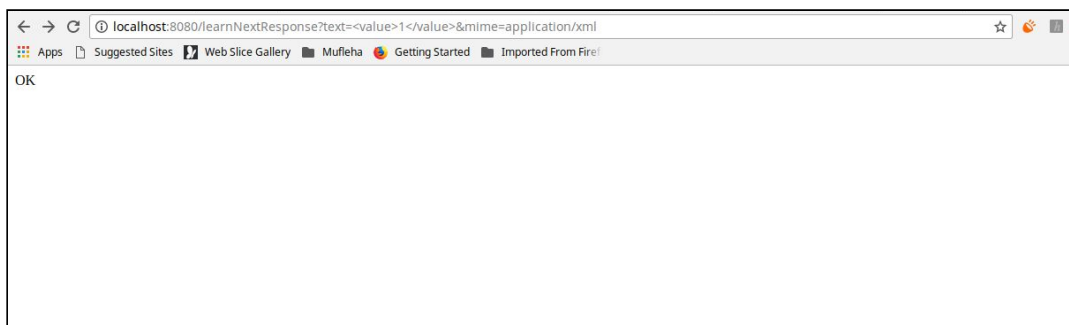
Specify mime type while learning a response:

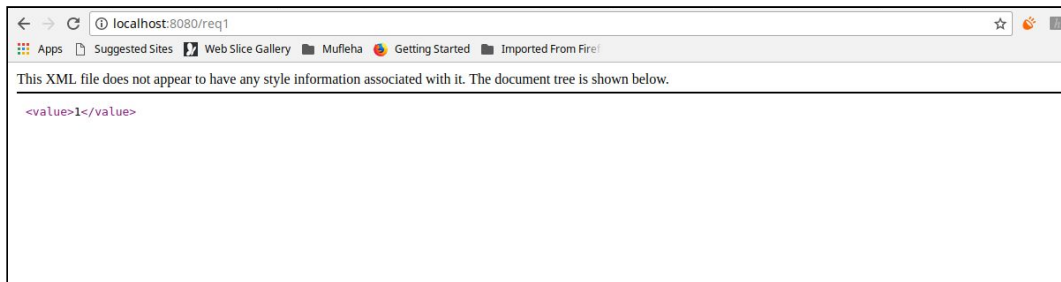
1. By default it auto detects the mime type, it can be changed by selecting the mime type from the dropdown list:



Learn next response by specifying the mime type:

1. Use the following command:
<http://localhost:8080/learnNextResponse?text=<value>1</value>&mime=application/xml>

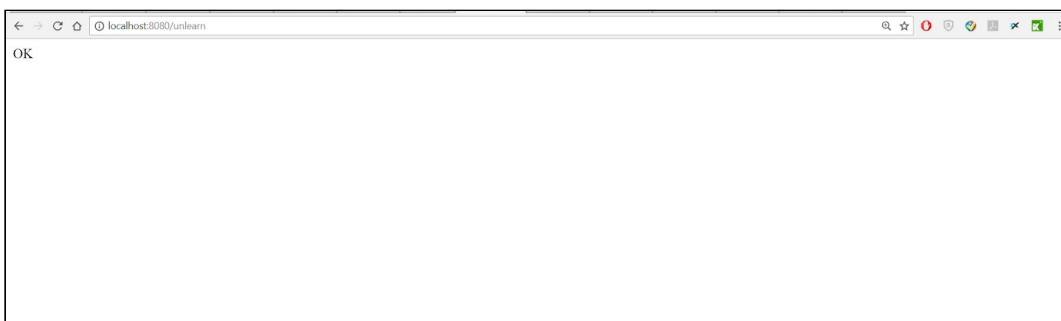




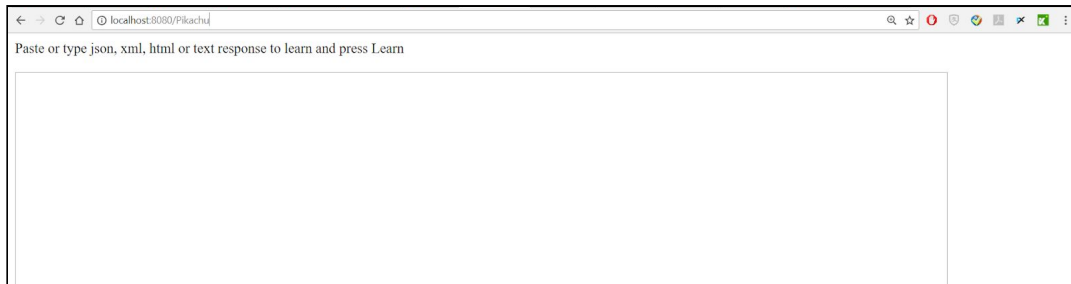
Unlearn a response/request:

To remove a response by applying the 'unlearnResponse' command:

<http://localhost:8080/unlearnResponse>

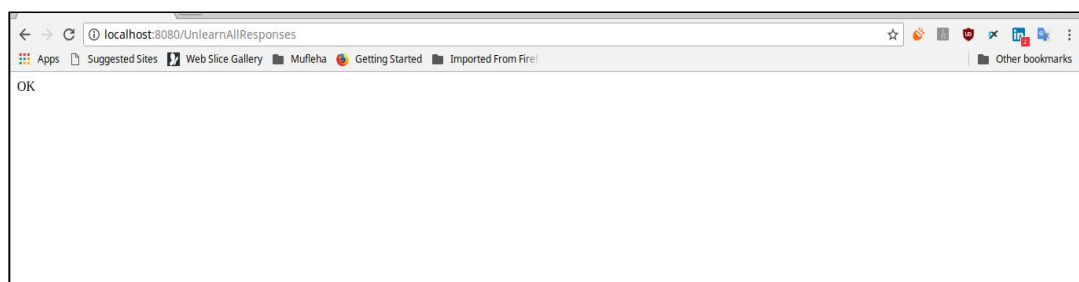


When triggering the previous request 'Pikachu', the corresponding request has been removed:



Unlearn all responses using:

<http://localhost:8080/UnlearnAllResponses>



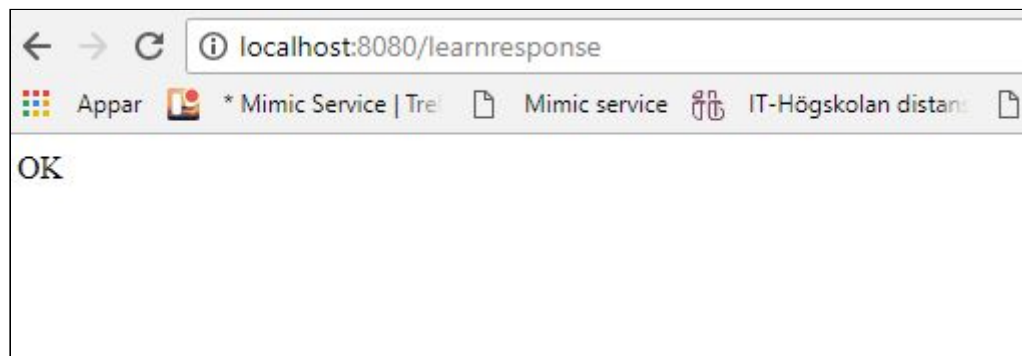
Adding multiple responses using the form and the AddResponse command:

1. Send any http command as request to get a form as response, for example:
<http://localhost:8080/PrincessPeach>



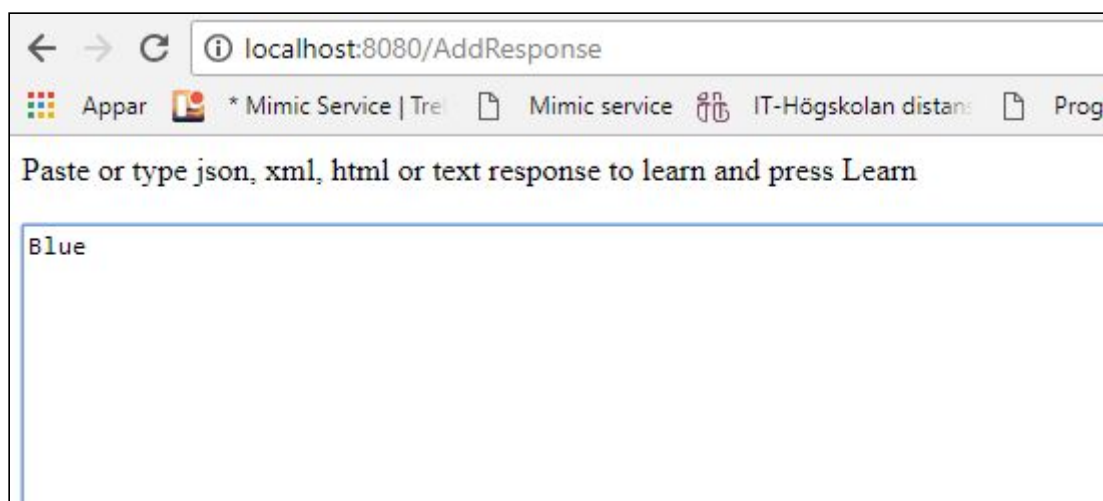
A screenshot of a web browser window. The address bar shows 'localhost:8080/PrincessPeach'. The page title is 'Mimic Service | Tre'. The page content includes a text input field with the text 'Pink' and a 'Learn' button. The page also has a header with navigation links: 'Appar', 'Mimic Service | Tre', 'Mimic service', and 'IT-Högskolan distans'.

2. Enter your choice of response. Press Learn to save the response.
Mimic will confirm the learned response with "OK".



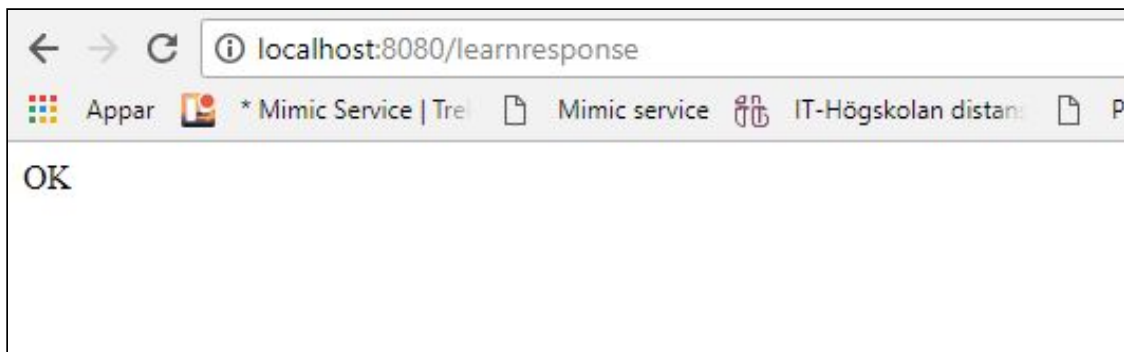
A screenshot of a web browser window. The address bar shows 'localhost:8080/learnresponse'. The page title is 'Mimic Service | Tre'. The page content displays the text 'OK'. The page also has a header with navigation links: 'Appar', 'Mimic Service | Tre', 'Mimic service', and 'IT-Högskolan distans'.

3. Enter <http://localhost:8080/AddResponse> to add another response.

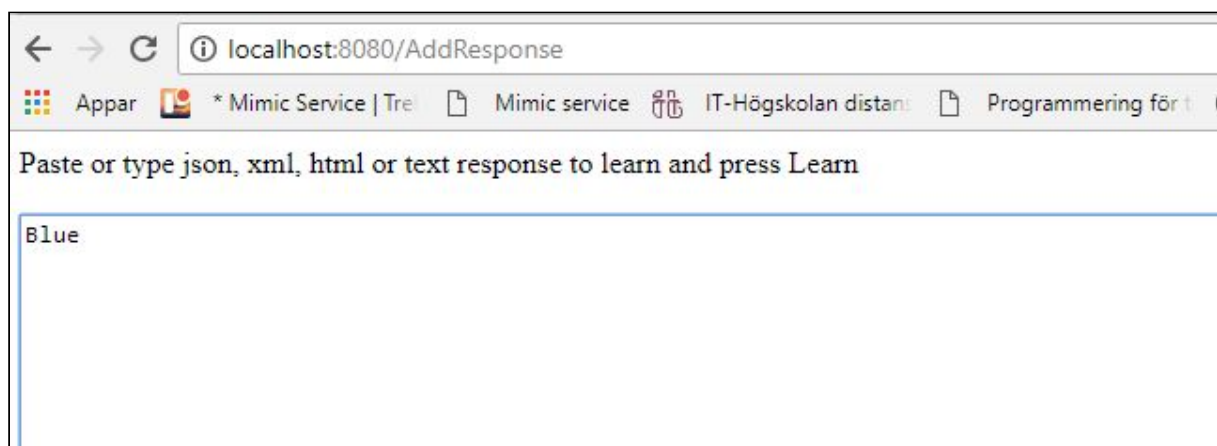


A screenshot of a web browser window. The address bar shows 'localhost:8080/AddResponse'. The page title is 'Mimic Service | Tre'. The page content includes a text input field with the text 'Blue' and a 'Learn' button. The page also has a header with navigation links: 'Appar', 'Mimic Service | Tre', 'Mimic service', and 'IT-Högskolan distans'.

4. Enter your choice of response. Press Learn to save the response.



5. Repeat the steps until you've saved all the responses.
AddResponse works the same as LearnNextResponse:



Adding multiple responses without using the form:

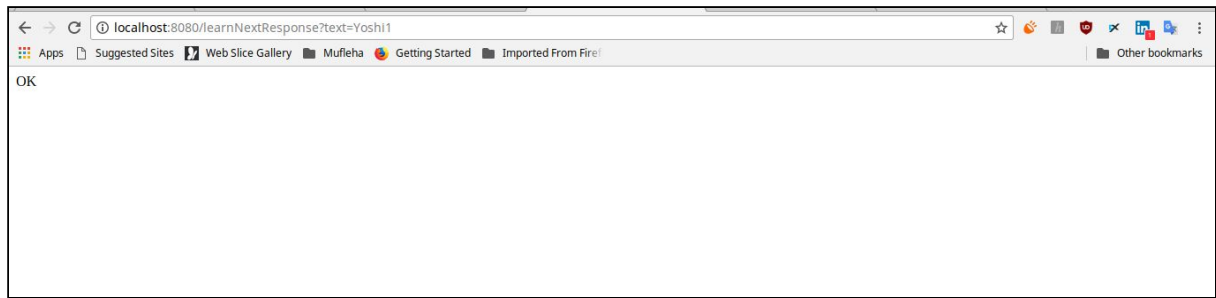
A request can learn multiple responses using 'learnNextResponse' and by triggering the same request multiple times gives different response until the sequence ends.

See following example where a request 'req1' gets three different responses 'Yoshi1', 'Yoshi2' and 'Yoshi3'. Triggering 'req1' three times responds like this:

1. req1 Yoshi1
2. req1 Yoshi2
3. req1 Yoshi3

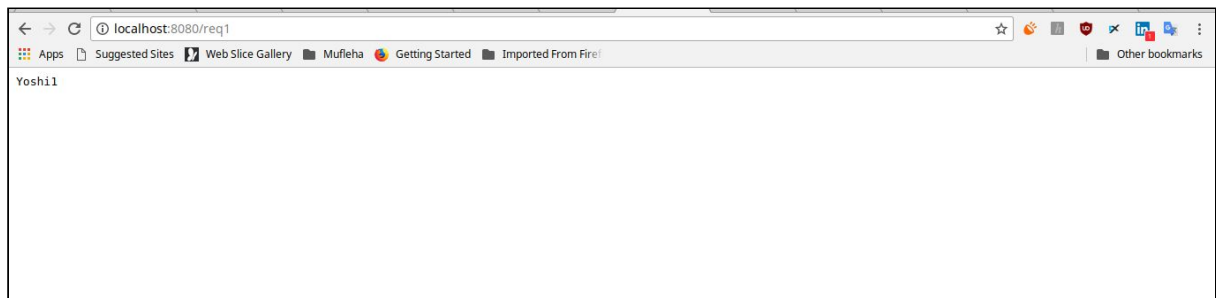
Learn a request:

<http://localhost:8080/learnNextResponse?text=Yoshi1>



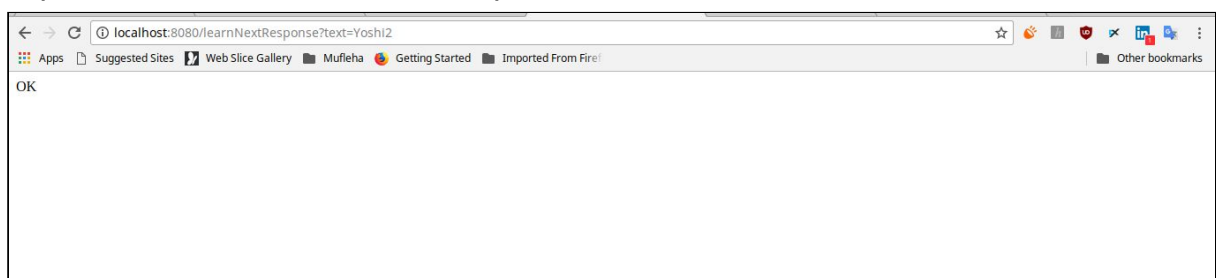
Assign the learned response to req1:

<http://localhost:8080/req1>



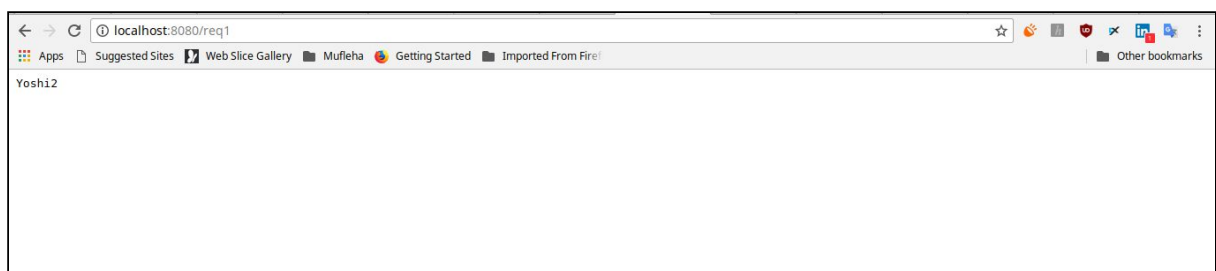
Learn another request:

<http://localhost:8080/learnNextResponse?text=Yoshi2>



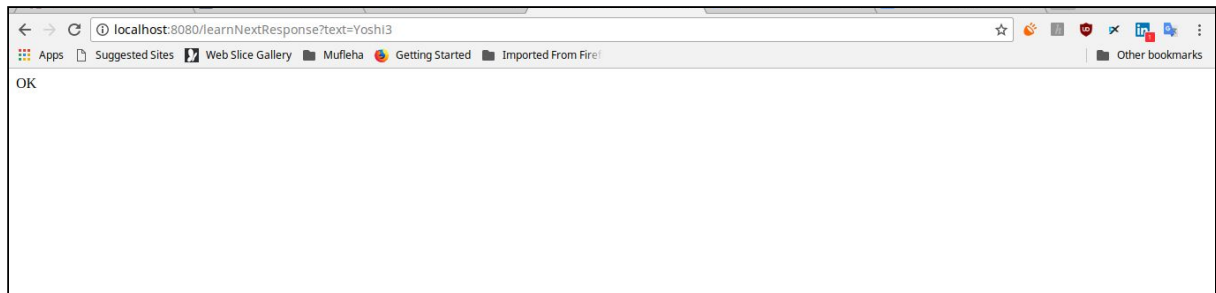
Assign the learned response to req1 again:

<http://localhost:8080/req1>

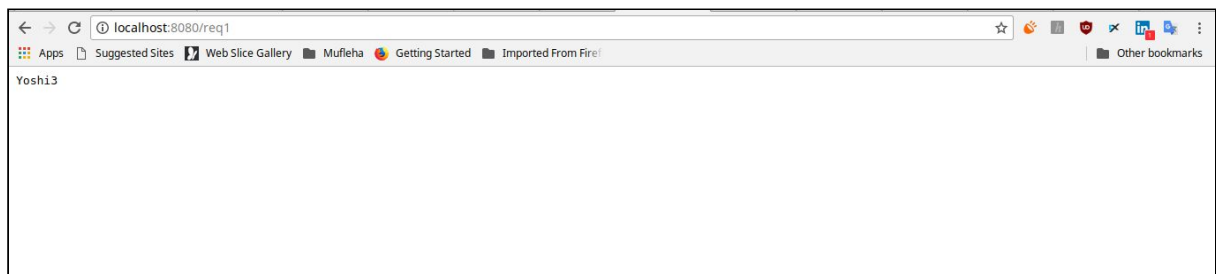


Learn another request:

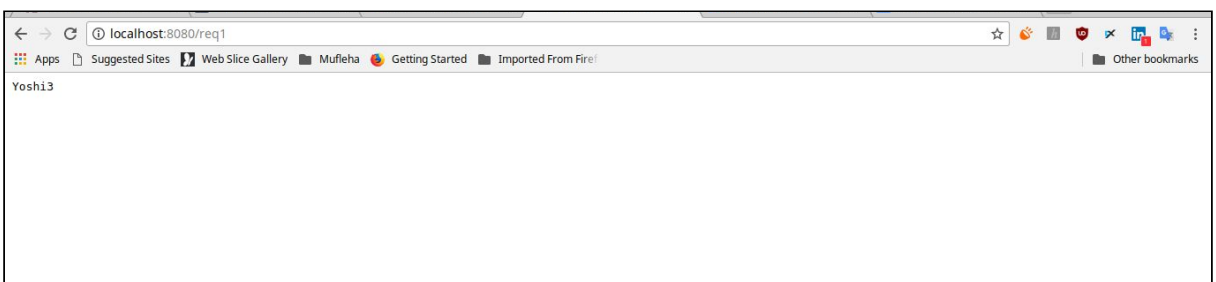
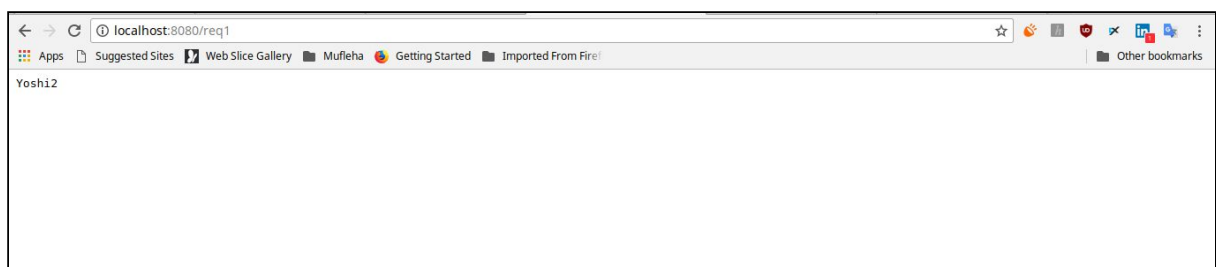
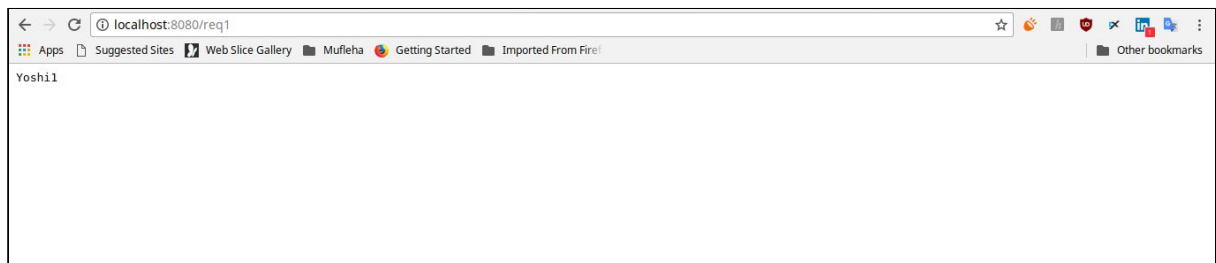
<http://localhost:8080/learnNextResponse?text=Yoshi3>



Assign the learned response to req1 again:
`http://localhost:8080/req1`



How to check if it responds differently:
Sending 'req1' will respond differently until it reaches the last response:

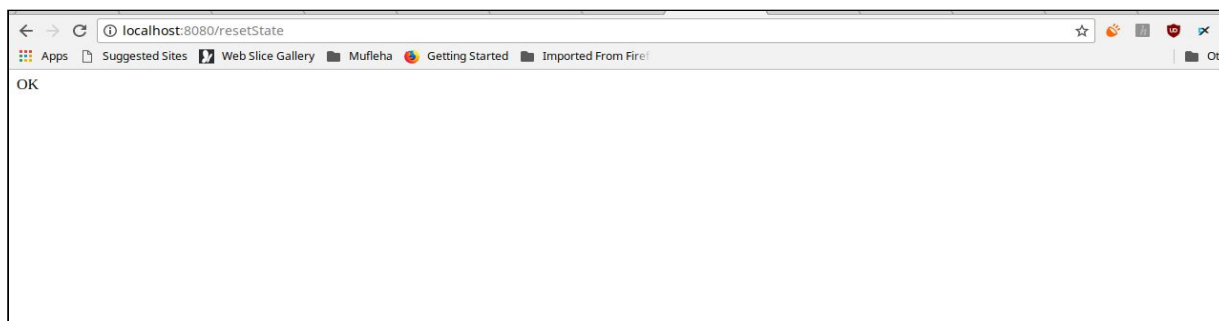


Unlearn a response in the middle of the sequence by applying the ‘unlearn’ command:

1. Save several responses as shown in previous step “Adding multiple responses”.
2. Save the responses Yoshi1, Yoshi2, Yoshi3, Yoshi4 and Yoshi5 for request “req1”.
3. Check the response by entering <http://localhost:8080/req1> 3 times, to stay in Yoshi3 mode.
4. Use unlearn command by entering <http://localhost:8080/UnlearnResponse>.
5. It removes all the responses after Yoshi3. In this example the responses Yoshi4 and Yoshi5 will be removed.

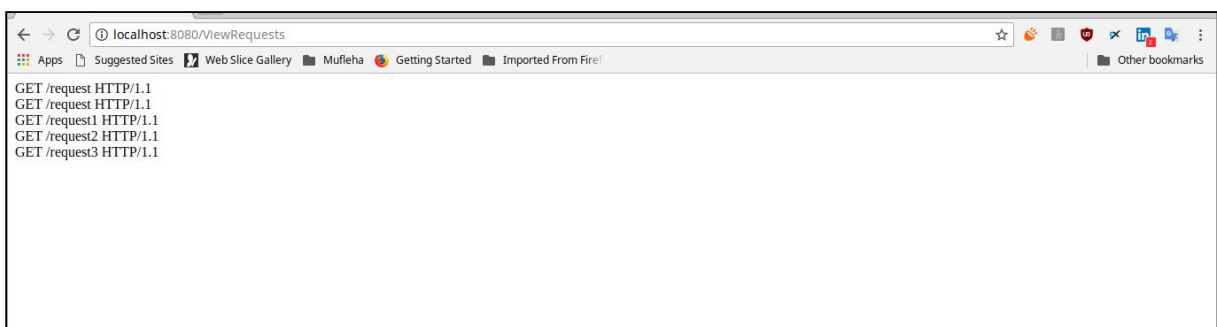
Reset State:

1. Reset the simulated application state (to repeat a sequence again) using:
<http://localhost:8080/resetState>



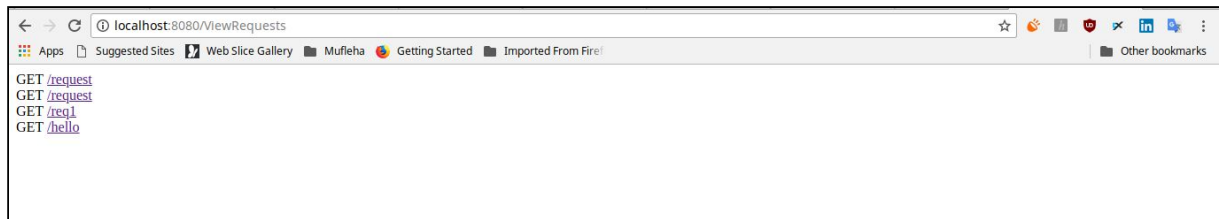
View all requests:

1. To view all the requests use the following command:
<http://localhost:8080/ViewRequests>

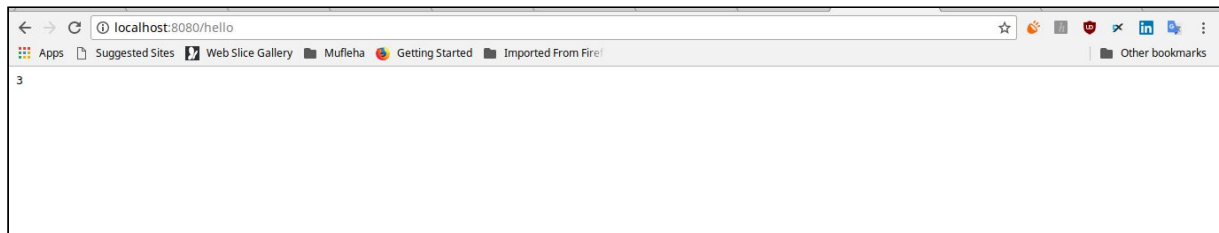


View all responses to the requests:

1. Click on a request from the list to see its responses.



2. Clicking on the last request “hello” in the above example will show its response “3”



Closing the mimic service:

1. Close Mimic and save the learned responses by using the command:
<http://localhost:8080/killMimic>

