Your Program

(Many small components)
Query (user input to program)

Create URL with parameters based on query, return result of requests.get(URL)

HTTP Response returned by get

Page that shows the names and pictures of artists similar to Adele

A few more pieces

HTML page containing results of query

status_code: 200 if ok.

content: JSON data of similar artists

requests.get(
http://ws.audioscrobbler.com/2.0/",
params={"method":'artist.getSimilar',
'format': 'json', 'api_key':'6b1628504240124aaf7abd282731010e',
'artist': "adele"})
Query (user input to program)

Create URL with parameters based on query, return result of requests.get(URL)

HTTP Response returned by get

Manually written HTML template with "holes"

Almost there...

HTTP Response:
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  http://ws.audioscrobbler.com/2.0/
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    'method': 'artist.getSimilar',
    'format': 'json',
    'api_key': '6b1628504240124aaf7abd282731010e',
    'artist': 'adele'
  }
)

status_code: 200 if ok.
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HTML page containing results of query

Page that shows the names and pictures of artists similar to Adele
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Create URL with parameters based on query, return result of
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HTTP Response returned by get

Analyze JSON structure to extract relevant information

Manually written HTML template with "holes"

Dictionary mapping names of template "holes" to values

"adele"

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"artist": "adele"})

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{'query': "adele",
'artistsList': [...]}

One more step

HTML page containing results of query

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Manually written HTML template with "holes"

Dictionary mapping names of template "holes" to values

Jinja2 render + file write

HTML page containing results of query

Page that shows the names and pictures of artists similar to Adele

"adele"

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