

# Generic Use Case: Associating Fedora Object URIs with Web Services

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| Title (Goal)                                       | As a repository manager, I want to expose a web service at a URI bound to a Fedora object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Primary Actor                                      | Repository Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Scope                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Level                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Story (A paragraph or two describing what happens) | My institution has developed a web application which provides a nifty visualization (html + js) for certain kinds of Fedora objects, as well as an XML representation of the same. To create the vizualization, my application reads a fedora object, queries a few indexes, does a few computations, and renders an appropriate representation based on the desired content-type. I would like to expose this web service at a URI <code>/rest/path/to/object/viz:nifty</code> for any object <code>/path/to/object</code> with an <code>rdf:type</code> of <code>viz:Visualizable</code> . I'd ideally like to wire my application to the <code>viz:nifty</code> URIs by creating or editing some sort of configuration file or fedora object, rather than compiling and deploying specialized code to do that. |

API Extension Architecture's role:

- Allow repository manager to bind path segment `viz:nifty` to objects with `rdf:type` of `viz:Visualizable`
- Allow the repository manager to specify the address of the web service that implements `viz:nifty`
- Route user's http requests from `viz:nifty` to the web service, and return its response
- Provide the identity of the relevant Fedora object to the web service when routing http request to it.

Web application's role:

- Respond to requests directed from `viz:nifty`

Repository manager's role:

- Deploy web application
- Specify address of web application, `rdf:type` of relevant objects, and URI path segment (`viz:nifty`)

Fedora's role:

- Respond to requests from the web application, if any.