

## InterestingPicture Code Deep Dive...

1) When you browse to `http://localhost:<insert your port>/InterestingPicture/`, InterestingPicture is the project name, and TomEE automatically deploys web apps with the first URL path component being the project name. But after that there is no path to indicate any specific file nor servlet. How does the web container know that a request to no-path, in this case, should be forwarded to the InterestingPictureServlet? What lines in which files give these instructions to the web container?

2) How is it that the word you type in the form in the browser gets to the `doGet()` method in the servlet? The user types into a browser, and the `doGet` method is running in a JVM on a server which can be half-way around the world.

3) On what line of what file is the search string extracted from the HTTP request?  
3a) - Is this file part of the M, V, or C?

4) Using Chrome devtools, what is the exact User-Agent string that your browser is sending? (Network tab, click on request, see Headers tab.)

5) What does the `RequestDispatcher` and `view.forward` do in the last lines of InterestingPictureServlet?

6) In Chrome devtools. look at the HTML response from searching for 'frog' in the InterestingPicture web app.

- Compare it with the contents of `result.jsp`
- How are they different?
- Why are they different?
- Did the M, V, C, or browser make the substitutions?

7) Find the Flickr URL that is fetched in the model

- Copy it
- Open Chrome and devtools, paste the URL in the address bar, and modify it to search for "frog".
- In the Network tab, find the initial request (the top one), look at the Response tab, and search for the same text that I search for in the InterestingPictureModel.
- Copy the URL that follows it and paste the URL into the browser address bar.
- Does that display the first frog?