# DBS Coding Test: Directory Listing

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## Rest webservices:

**1. To List Directory contents:**

<http://localhost:8080/dbscodingtest/api/fileservice/files>

**2. To show a single file details:**

<http://localhost:8080/dbscodingtest/api/fileservice/files/file>

## Web Application:

<http://localhost:8080/dbscodingtest>

## How to Deploy:

* Get code from the git repository.
* Compile (I’ve used Eclipse to code and deploy)
* Export to the tomcat root/webapps
* This will host the web application under the aforesaid URL.

## How to Test Run:

(Once deployed), run this URL to open the main UI

<http://localhost:8080/dbscodingtest>

* To List directory contents, profile a directory path in the 2nd text box, and click on “Find Files”
* The sub folders will be highlighted in a different color.
* If you click on a sub folder, it will list the contents of that sub folder only.
* To go back to the parent, just remove one level of path in the text box and click on “Find Files”

Folder structure

* To List a single file details, take a complete path of a file and enter in the first text box, and click on “Find File Details”
* It’ll list the file details- precisely the access permissions of that file.

## Design Considerations:

* While listing directory structures in the UI, it is limited to 3 levels to avoid getting timed out for very large folder structures profiled in the path text box. The folder links can be clicked anyways to drill down further to any levels needed.
* UI has been kept in a minimalistic mode.
* To create Rest services, Jersey framework has been used.
* To create the web application a simple java script and jQuery has been used.
* Unit tests are written to test the basic two methods, which gets executed.
* Used Maven as a task runner for complete and test run the unit tests.
* Used Javadoc to generate code documentation. Its included in the \doc folder in git.