

# Javascript & Node.js: Simple Examples

ELEC6017

8 November 2013

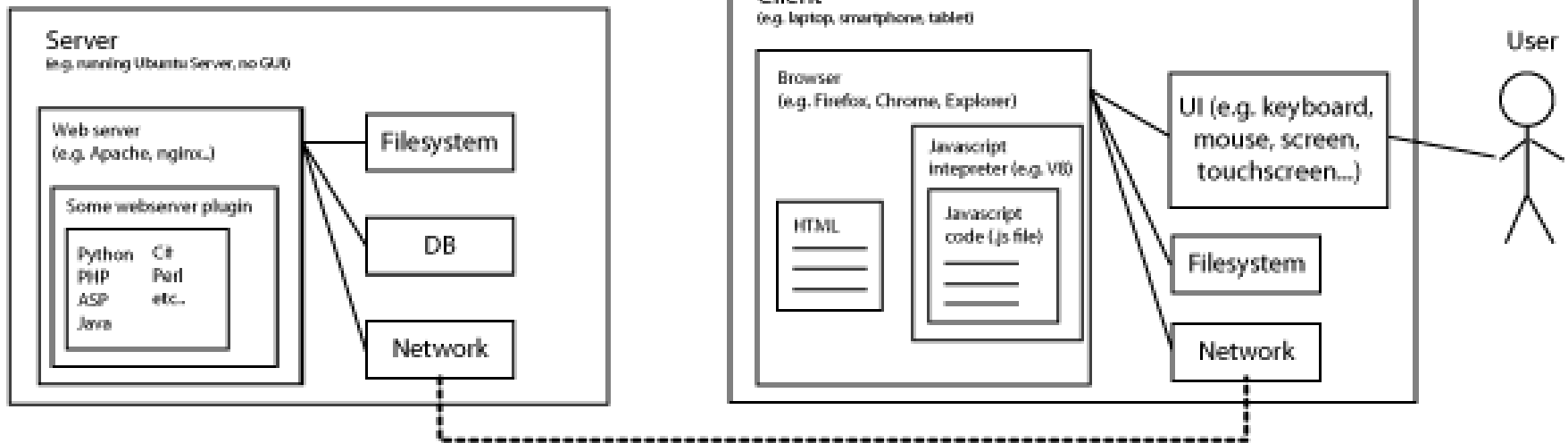
Last edit 8 November

Enrico Costanza

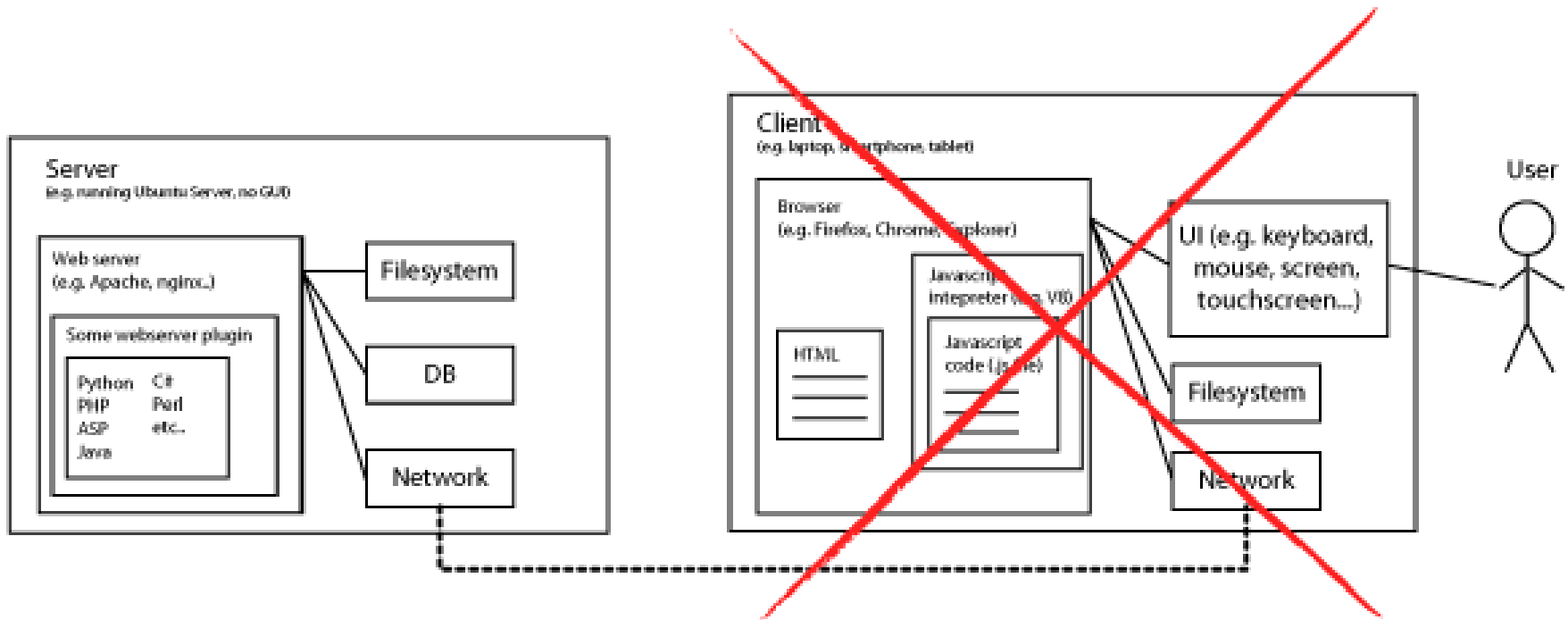
# Resources

- In addition to the COMP6017 module pages on the intranet, please see also:
  - <https://hci.ecs.soton.ac.uk/wiki/JavascriptReferences>
  - <https://hci.ecs.soton.ac.uk/wiki/NodejsReferences>

# Web Services, not Web Applications!

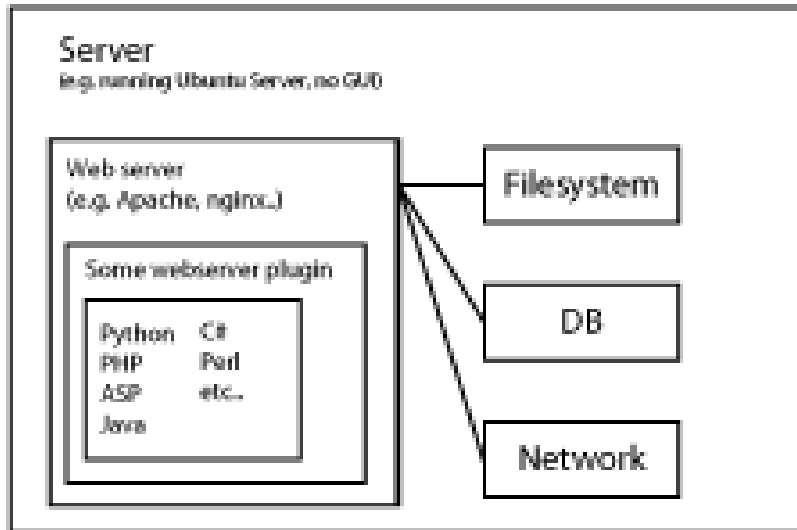


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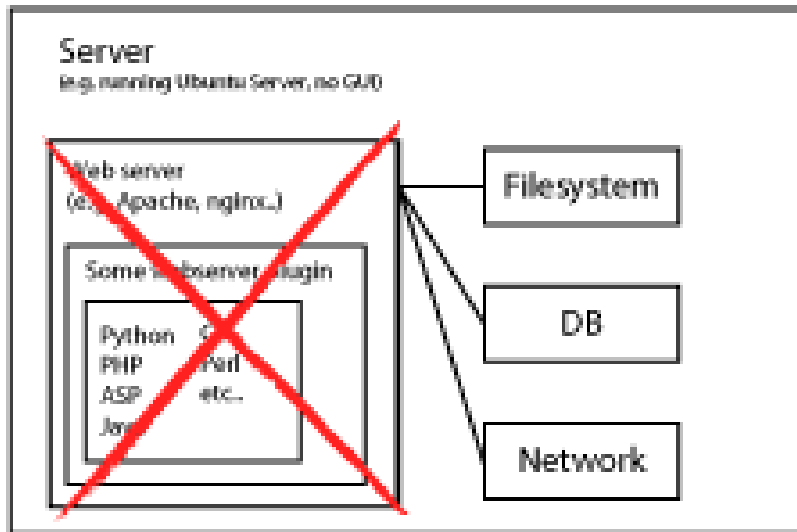
This module is NOT about Javascript in the browser

# Web Services, not Web Applications!



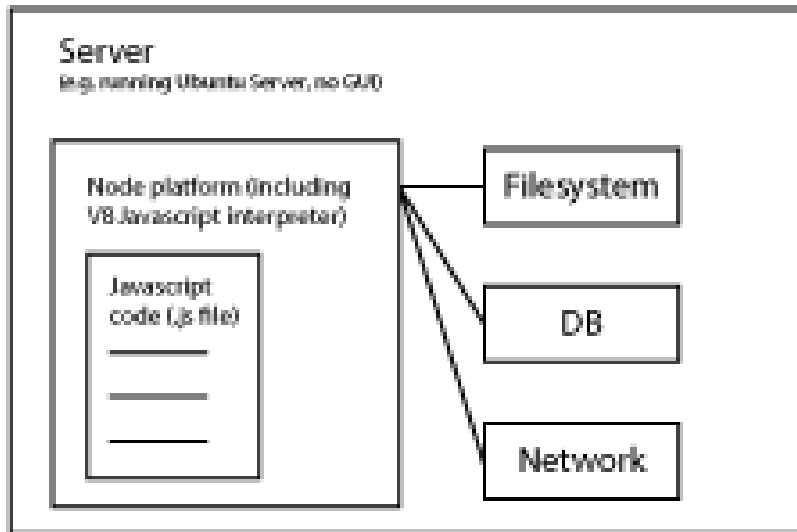
Our focus is on the server side

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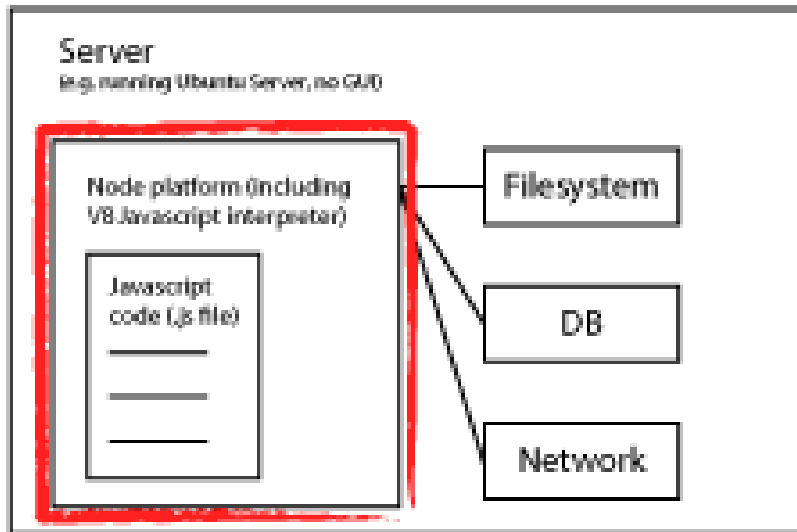
Node.js is an alternative (replacement) to having a Web server (e.g. Apache, nginx) and to languages like PHP, Python, Java, Perl, etc..

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Node.js (Javascript on the server) is the focus of this module



# Hands-on Node.js Examples

- Load file from disk: [01\\_loadfile.js](#)
- Parse html: [02\\_parse\\_html.js](#)
- Load file from network (& parse it): [03\\_weather.js](#)

# Hands-on Node.js Examples

- Load file from disk: [01\\_loadfile.js](#)
  - Event driven in action: asynchronous callback
- Parse html: [02\\_parse\\_html.js](#)
  - Using (& installing) libraries: npm
- Load file from network (& parse it): [03\\_weather.js](#)
  - More libraries

# Hands-on Node.js Examples (cont.)

- Respond to an HTTP request: [04\\_hello\\_http.js](#)
- Get info from the HTTP request: [05\\_http\\_url.js](#)
- Combine all of the above:  
[06\\_http\\_weather.js](#) & [07\\_http\\_weather\\_closure.js](#)

# Hands-on Node.js Examples (cont.)

- Respond to an HTTP request: [04\\_hello\\_http.js](#)
  - Node built-in http server features
- Get info from the HTTP request: [05\\_http\\_url.js](#)
  - More built-in features
- Combine all of the above:  
[06\\_http\\_weather.js](#) & [07\\_http\\_weather\\_closure.js](#)
  - Closure in action, a practical example

# Summary

- Examples of Node.js in action:
  - lots of libraries
  - npm: node package manager
  - callbacks in practice
  - closure in practice