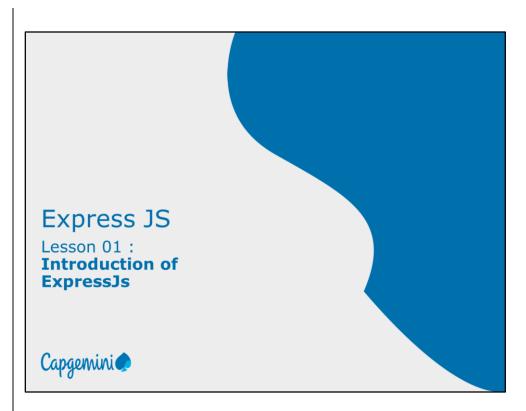
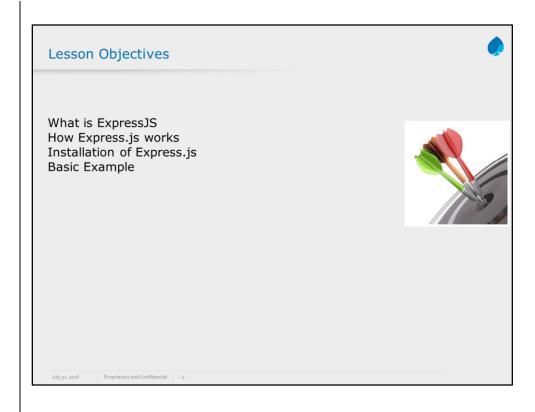
Instructor Notes:

Add instructor notes here.



Instructor Notes:

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Instructor Notes:

Add instructor notes here.

1.1: Web development with Node Introduction



➤ Webserver like IIS / Apache serves static files(like html files) so that a browser can view them over the network.

>We need to place the files in a proper directory(like wwwroot in IIS), so that we can navigate to it using http protocol. The web server simply knows where the file is on the computer and serves it to the browser.

➤ Node offers a different paradigm than that of a traditional web server i.e. it simply provides the framework to build a web server.

➤Interestingly building a webserver in node is not a cumbersome process, it can be written in just a few lines, moreover we'll have full control over the application.

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Instructor Notes:

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1.1: Web development with Node HTTP module in Node.js

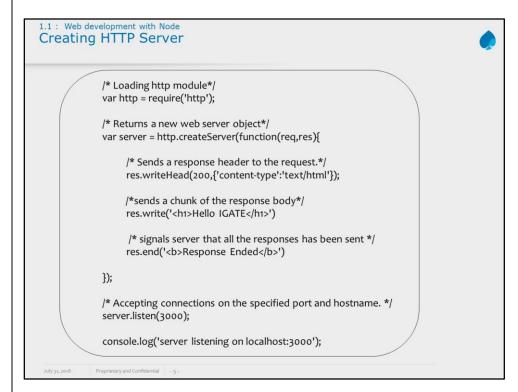


- >We can easily create an HTTP server in Node.
- >To use the HTTP server and client one must require('http').
- The HTTP interfaces in Node are designed to support many features of the protocol which have been traditionally difficult to use. In particular, large, possibly chunk-encoded, messages.
- Node's HTTP API is very low-level. It deals with stream handling and message parsing only. It parses a message into headers and body but it does not parse the actual headers or the body.
- >HTTP response implements the Writable Stream interface and request implements Readable Stream interface.

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HTTP status codes

1XX

The 1xx series of status codes is classified as Informational, and is used for conveying provisional response from the server.

The available codes in this series are: 100, 101, and 102.

2XX

The 2xx series of status codes is classified as Success, and is used for conveying a successful request for a resource on the server.

The available codes in this series are: 200, 201, 202, 303, 204, 205, 206, 207, 208, 250, and 226.

3хх

The 3xx series of status codes is classified as Redirection, and is used for information by the user agent about taking additional action to retrieve the requested resource. The available codes in this series are: 300, 301, 302, 303, 304, 305, 306, 307, and 308.

4XX

The 4xx series of status codes is classified as Client Error, and is used for informing the user agent of its erroneous requests to the server.

The available codes in this series are: 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 422, 423, 424, 425, 426, 428, 429, 431, 444, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 494, 495, 496, 497, and 499.

5XX

The 5xx series of status codes is classified as Server Error, and is used for informing the user agent that the server has encountered an error because of which the request was not fulfilled. The available codes in this series are: 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 551, 598, and 599.

Instructor Notes:

Add instructor notes here.

```
1.1: Web development with Node
Routing
 >Routing refers to the mechanism for serving the client the content it
 has asked
             var http = require('http');
             var server = http.createServer(function(req,res){
             var path = req.url.replace(/\/?(?:\?.*)?$/, ").toLowerCase();
             switch(path) {
                  case ":
                             res.writeHead(200, {'Content-Type': 'text/html'});
                             res.end('<h1>Home Page</h1>');
                             break;
                  case '/about':
                             res.writeHead(200, {'Content-Type': 'text/html'});
                             res.end('<h1>About us</h1>');
                             break;
                  default:
                             res.writeHead(404, { 'Content-Type': 'text/plain' });
                             res.end('Not Found');
                             break;
             });
             server.listen(3000);
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```

Instructor Notes:

