

HTTP



Ryan Lewis
rylewis@expedia.com



Class Overview

HTTP (S)

Querystring

Request

Expedia APIs

homework solution

http

Node module used for insecure http requests

<https://nodejs.org/dist/latest-v4.x/docs/api/http.html>

```
// basic http GET request
var http = require('http');
var req = http.request({
  hostname: 'www.google.com',
  port: 80,
  path: '/',
  method: 'GET'
}, function (res) {
  // do stuff with res
});

req.end();
```



Does not follow node
'failback' pattern

http.request()

Return Type: ClientRequest object

Contains data on the request. Also emits events related to the request.

Callback Argument: 'response' event emitter

Emits events related to the response.

```
var http = require('http');  
var req = http.request({  
  hostname: 'www.google.com',  
  port: 80,  
  path: '/',  
  method: 'GET'  
}, function (res) {  
  // do stuff with res  
});
```

```
req.on('error', function(err) {  
  console.log(err);  
});
```

```
req.end();
```

Using ClientRequest
Object

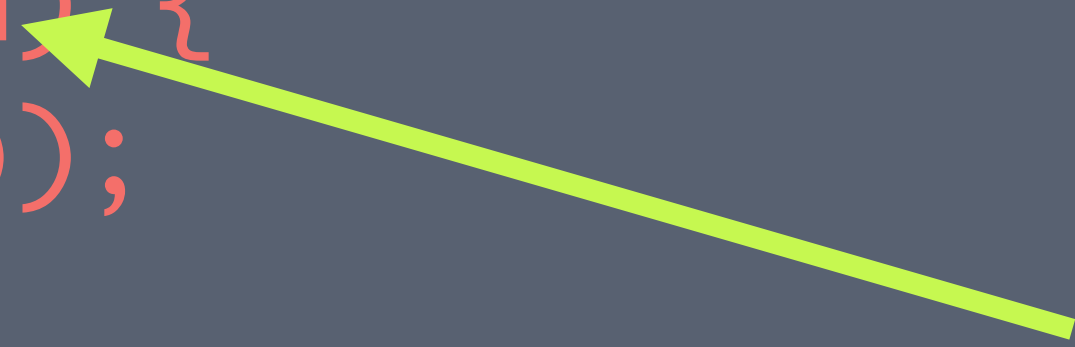
*req.end() must always
be called to signify
the request is complete*



```
var http = require('http');
var req = http.request({
  hostname: 'www.google.com',
  port: 80,
  path: '/',
  method: 'GET'
}, function (res) {
  res.on('data', function (d) {
    console.log(d.toString());
  });
  res.on('end', function() {
    console.log('finished with request.');
```

Using 'response'
callback argument

data is Buffer object.
Use toString() to convert



```
req.end();
```


https

Node module used for secure https requests

<https://nodejs.org/dist/latest-v4.x/docs/api/https.html>

https.request()

Usage same as http.request()

querystring

Node module used to parse and stringify query strings for http(s) requests

<https://nodejs.org/dist/latest-v4.x/docs/api/querystring.html>

```
var qs = require('querystring');  
var params = { date: '01-02', age: 23, isTrue: false };  
  
var paramQs = qs.stringify(params);  
  
// 'date=01-02&age=23&isTrue=false'  
  
var paramObj = qs.parse(paramQs);  
  
// { date: '01-02', age: 23, isTrue: false }
```

request

request API examples

`request.get(url, callback)`

```
request.get('https://www.google.com', function (err, data) {  
  console.log(data);  
});
```

`request.post(url, callback)`

```
var options = {  
  url: 'https://www.google.com',  
  qs: 'id=123&name=ryan',  
  body: '{ id: 456 }'  
};  
request.post(options, function (err, data) {  
  console.log(data);  
});
```

Expedia APIs

Mobile Hotels API Documentation

<https://www.expedia.com/static/mobile/APIConsole/hotel.html>

Hotel Search Fields Documentation

[https://www.expedia.com/static/mobile/APIConsole/DescribeObject.html?
Object=com.expedia.www.mobile.ui.hotel.viewmodel.HotelSearchFields&type=parameterValue](https://www.expedia.com/static/mobile/APIConsole/DescribeObject.html?Object=com.expedia.www.mobile.ui.hotel.viewmodel.HotelSearchFields&type=parameterValue)