NodeJS

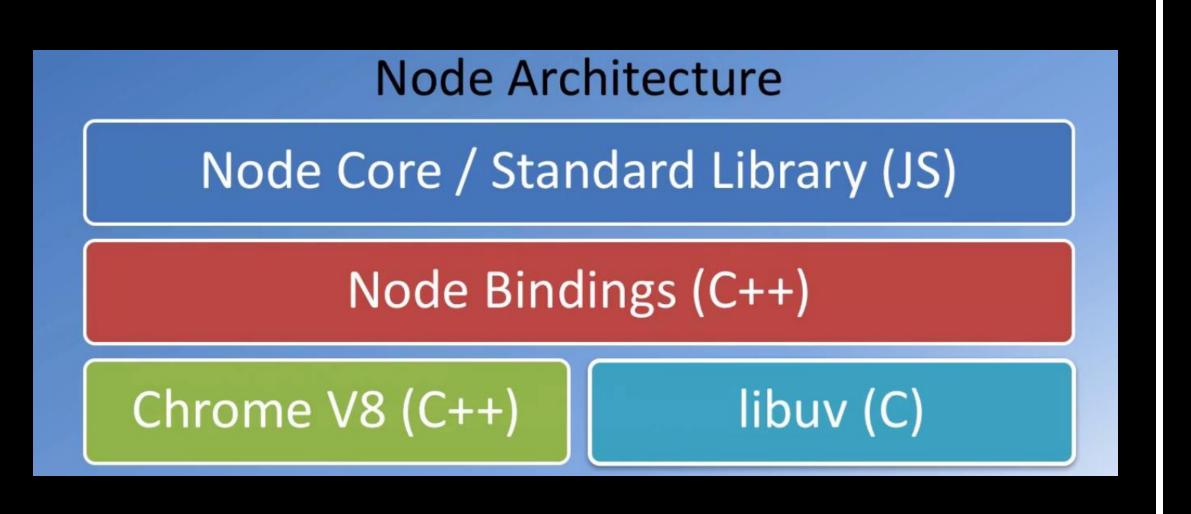
WHAT IS NODEJS?

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1. Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine Node.js Uses an event-driven, non-blocking I/O makes it lightweight and efficient.

2. Asynchronous and Event Driven - many connections can be handled concurr Lightweight and Very Fast

3. I/O bound Applications Data Streaming Applications JSON APIs based Applications.



SYNC I/O

var fs = require('fs');

```
console.time('Start timer');
```

```
var data = fs.readFileSync('test.txt');
console.log("File Read: " + data);
console.timeEnd('Start timer');
```

```
fs.writeFileSync('write.txt', 'Writing to file 111 3333');
console.log("Done with file write");
console.timeEnd('Start timer');
console.log('Done');
```

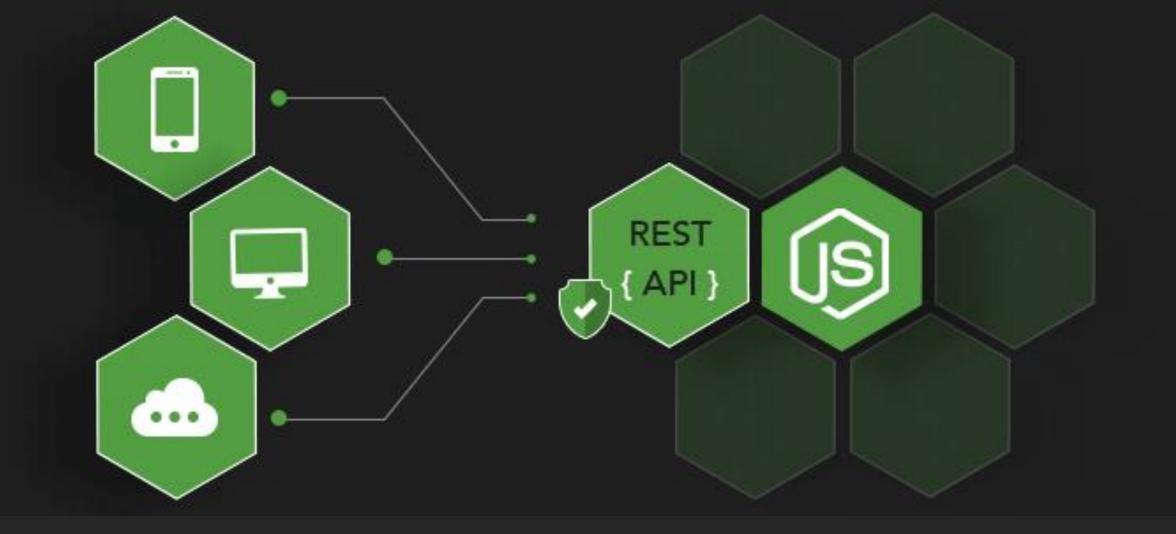


ASYNC I/O

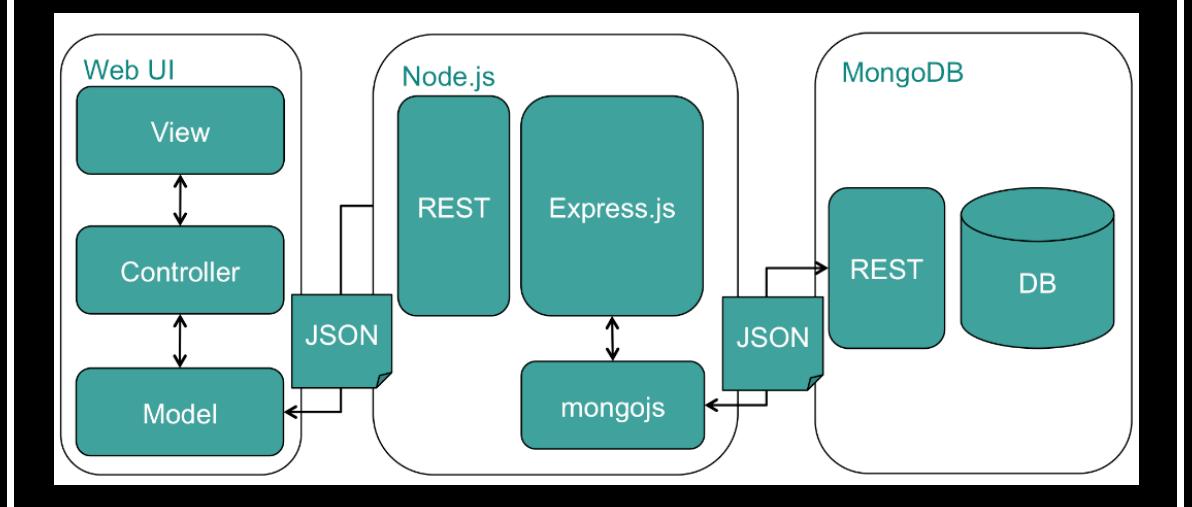
```
var fs = require('fs');
```

```
console.time('Start timer Read');
console.time('Start timer Write');
fs.readFile('test.txt', function(err, data) {
  if (err) {
    console.log("File Reading err: " + err);
    return;
  console.log("File Reading: " + data );
  console.timeEnd('Start timer Read');
});
fs.writeFile('write.txt', 'Writing to file 111 3333', function() {
  console.log("Done with file write \n");
  console.timeEnd('Start timer Write');
});
console.log('Done \n');
```

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API Architecture



Questions?