



React

4.5 Routing Requests

```
const server = http.createServer((req, res) => {
  res.setHeader('Content-Type', 'text/html');
  res.write('<html>');
  res.write('<head><title>Complete Coding</title></head>');

  if (req.url === '/') {
    res.write('<h1>Welcome to Home page</h1>');
    res.end();
  } else if (req.url.toLowerCase() === '/products') {
    res.write('<h1>Products</h1>');
    res.end();
  }

  res.write('<body><h1>Like / Share / Subscribe</h1></body>');
  res.write('</html>');
  res.end();
});
```



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4.5 Routing Requests

```
❌ prashantjain@Prashants-Mac-mini node % node app.js
```

```
Server running at http://localhost:3000/
```

```
node:_http_outgoing:699
```

```
    throw new ERR_HTTP_HEADERS_SENT('set');
```

```
    ^
```

```
Error [ERR_HTTP_HEADERS_SENT]: Cannot set headers after they are sent to the client
```

```
    at ServerResponse.setHeader (node:_http_outgoing:699:11)
```

```
    at Server.<anonymous> (/Users/prashantjain/workspace/Test Project/node/app.js:14:7)
```

```
    at Server.emit (node:events:520:28)
```

```
    at parserOnIncoming (node:_http_server:1146:12)
```

```
    at HTTPParser.parserOnHeadersComplete (node:_http_common:118:17) {
```

```
  code: 'ERR_HTTP_HEADERS_SENT'
```

```
}
```

```
Node.js v22.5.1
```



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  res.setHeader('Content-Type', 'text/html');  
  res.write('<html>');  
  res.write('<head><title>Complete Coding</title></head>');  
  
  if (req.url === '/') {  
    res.write('<h1>Welcome to Home page</h1>');  
    return res.end();  
  } else if (req.url.toLowerCase() === '/products') {  
    res.write('<h1>Products</h1>');  
    return res.end();  
  }  
  
  res.write('<body><h1>Like / Share / Subscribe</h1></body>');  
  res.write('</html>');  
  return res.end();  
});
```



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4.6 Taking User Input

```
if (req.url === '/') {  
  res.write('<h1>Welcome to Home page</h1>');  
  res.write('<form action="/submit-details" method="POST">');  
  res.write('<input type="text" id="name" name="name" placeholder="Enter your  
name"><br><br>');  
  res.write('<label for="gender">Gender:</label>');  
  res.write('<input type="radio" id="male" name="gender" value="male">');  
  res.write('<label for="male">Male</label>');  
  res.write('<input type="radio" id="female" name="gender" value="female">');  
  res.write('<label for="female">Female</label><br><br>');  
  res.write('<button type="submit">Submit</button>');  
  res.write('</form>');  
  return res.end();  
}
```



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4.7 Redirecting Requests

```
} else if (req.method == 'POST' &&  
    req.url.toLowerCase() === '/submit-details') {  
    fs.writeFileSync('user-details.txt', 'Prashant Jain');  
    res.statusCode = 302;  
    res.setHeader('Location', '/');  
    return res.end();  
}
```

node > ≡ user-details.txt

```
1 Prashant Jain
```



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Practise Set

Create a page that shows a navigation bar of Myntra with the following links:

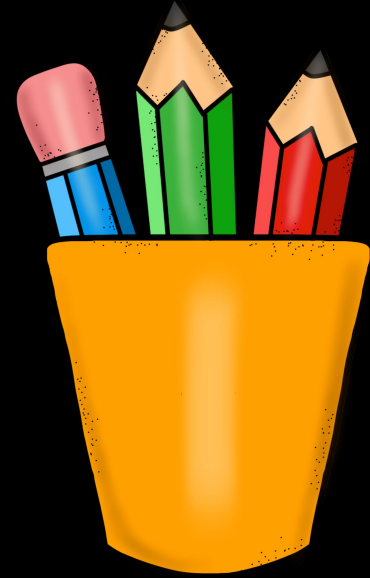
- A. Home
- B. Men
- C. Women
- D. Kids
- E. Cart

Clicking on each link page should navigate to that page and a welcome to section text is shown there.





Revision



1. Node Lifecycle & Event Loop
2. How to exit Event Loop
3. Understand Request Object
4. Sending Response
5. Routing Requests
6. Taking User Input
7. Redirecting Requests



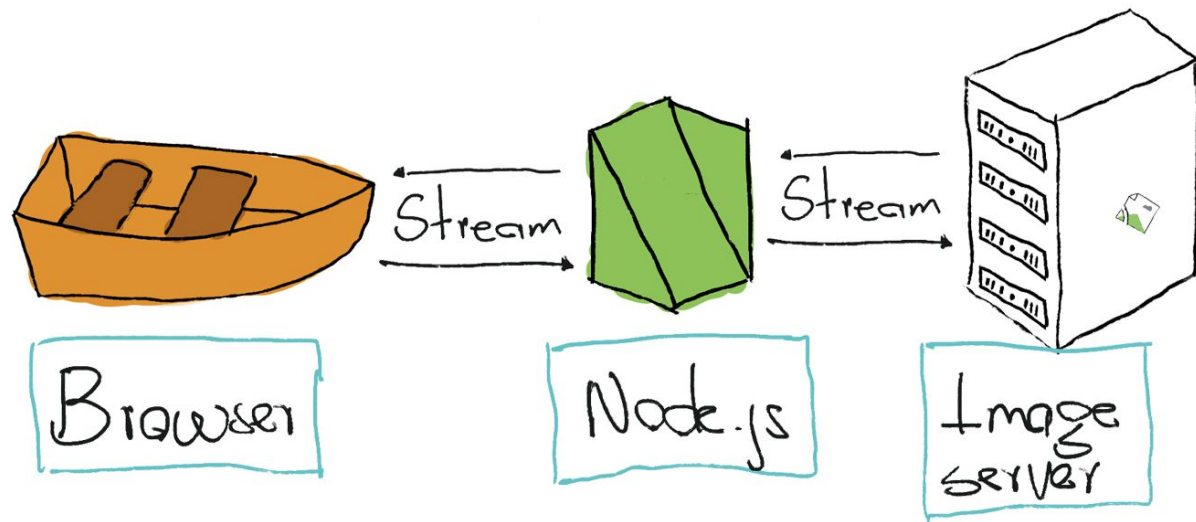


5. Parsing Request

1. Streams
2. Chunks
3. Buffers
4. Reading Chunk
5. Buffering Chunks
6. Parsing Request
7. Using Modules

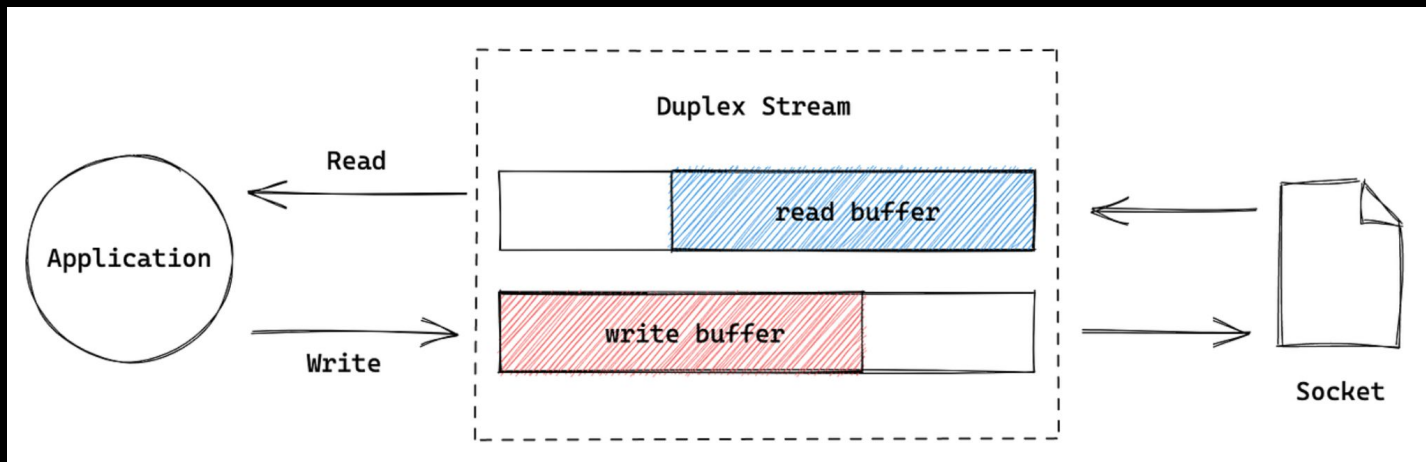


5.1 Streams



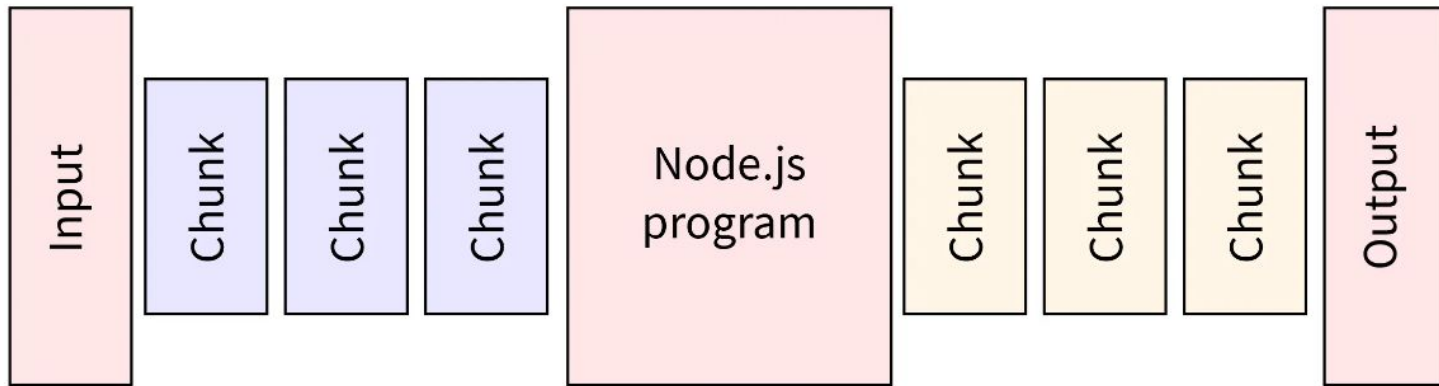


5.1 Streams

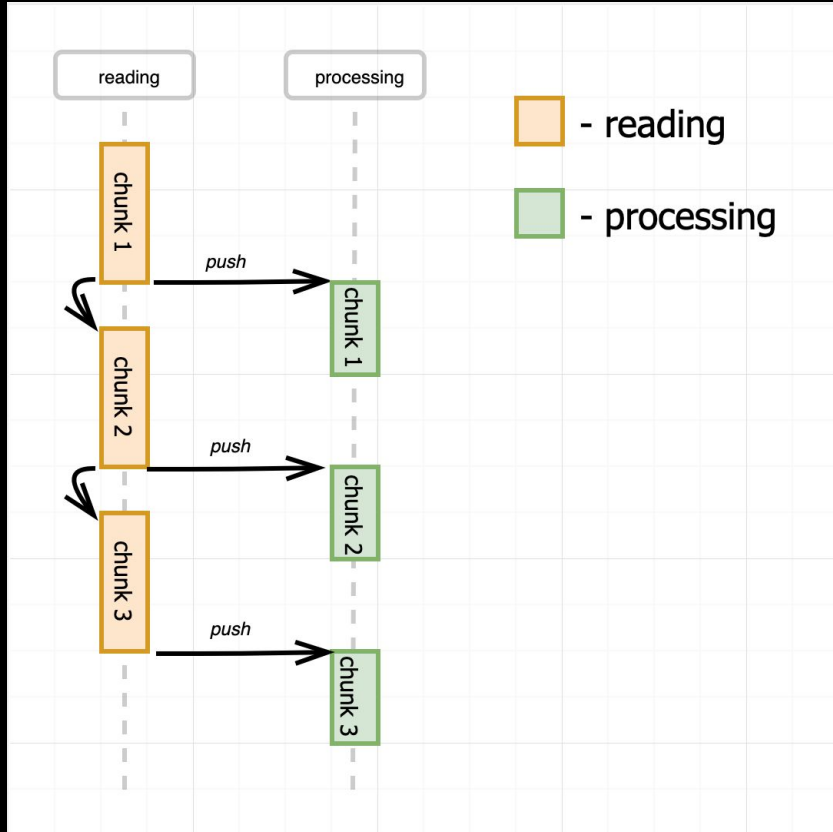




5.2 Chunks

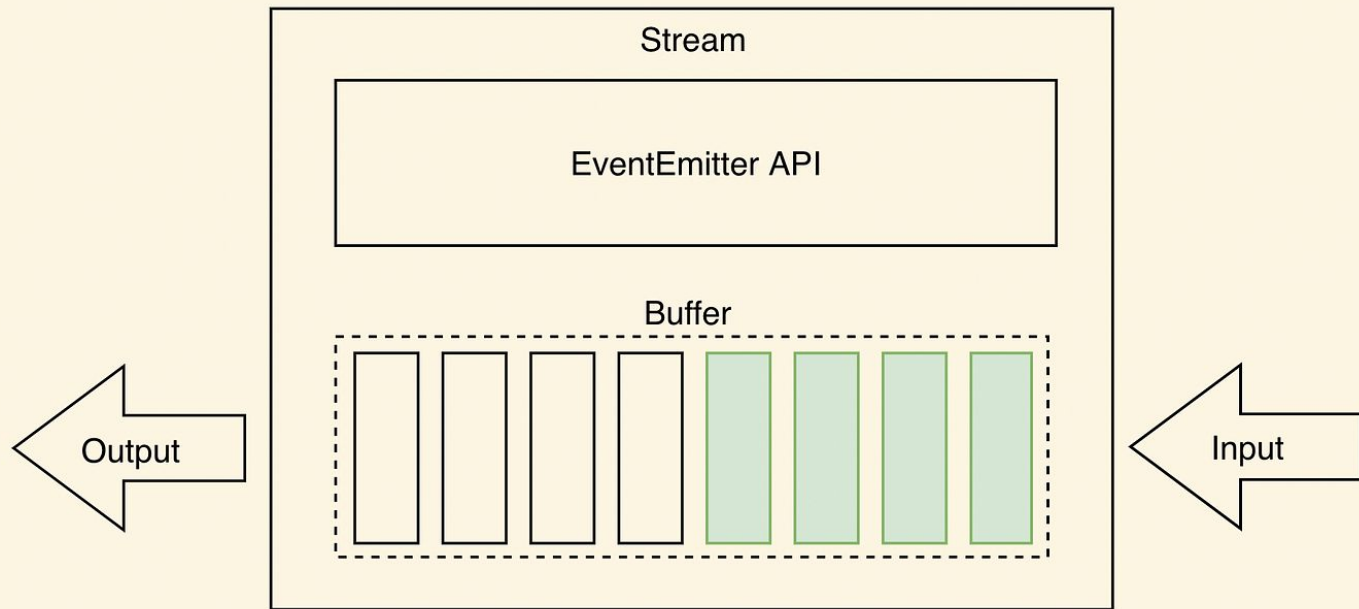


5.2 Chunks





5.3 Buffers





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5.4 Reading Chunk

```
} else if (
  req.method == "POST" &&
  req.url.toLowerCase() === "/submit-details"
) {
  req.on("data", (chunk) => {
    console.log(chunk);
  });
  fs.writeFileSync("user-details.txt", "Prashant Jain");
  res.setHeader("Location", "/");
  res.statusCode = 302;
  return res.end();
}
```

```
prashantjain@Prashants-Mac-mini node % node app.js
Server running at http://localhost:3000/
<Buffer 6e 61 64 65 3d 50 72 61 73 68 61 6e 74 26 67 65 6e 64 65 72 3d 6d 61 6c 65>
```



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5.5 Buffering Chunks

```
const body = [];  
req.on("data", (chunk) => {  
  console.log(chunk);  
  body.push(chunk);  
});  
req.on("end", () => {  
  const parsedBody = Buffer.concat(body).toString();  
  console.log(parsedBody);  
});  
fs.writeFileSync("user-details.txt", "Prashant Jain");
```

```
.prashantjain@Prashants-Mac-mini node % node app.js  
Server running at http://localhost:3000/  
<Buffer 6e 61 6d 65 3d 50 72 61 73 68 61 6e 74 26 67 65 6e 64 65 72 3d 6d 61 6c 65>  
name=Prashant&gender=male  
□
```