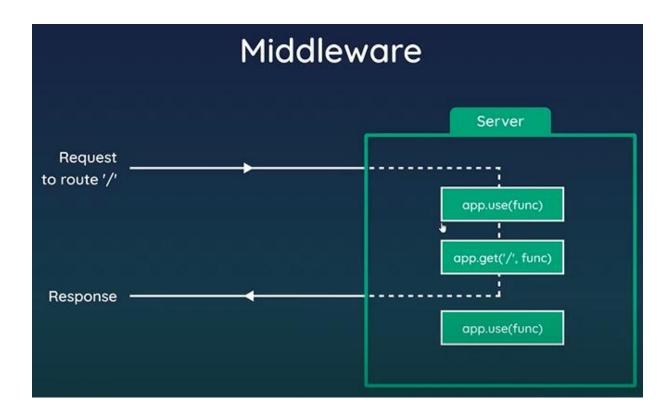
Middleware

Middleware

 Code which runs (on the server) between getting a request and sending a response



Middleware Examples

- Logger middleware to log details of every request
- Authentication check middleware for protected routes
- Middleware to parse JSON data from requests
- Return 404 pages

```
EXPLORER
                             us app.js

✓ OPEN EDITORS

                              Js app.js > ...
   X Js app.js
                               4 const app = express();

∨ NODE-CRASH-COURSE2

                               5 //register view engine
      partials //listen for request

footer.ejs // head.ejs // app.listen(3000);

footer.ejs // app.listen(3000);

footer.ejs // app.listen(3000);

footer.ejs // app.listen(3000);
                              6 app.set('view engine', 'ejs');
  > 🐚 node_modules

✓ Image: Views

   ∨ 📂 partials
                                          console.log('new request made:');
                                            console.log('host:', req.hostname);
console.log('path:', req.path);
console.log('method:', req.method);
      4% 404.ejs
      5 404.html
      4% about.ejs
      about.html
     create.ejs
                              18     app.get('/',(req,res)=>{
19          const blogs =[
      <% index.ejs
      index.html
                                            {title: 'Rocky finds gold', snippet: 'gold is hard to found'},
                                             {title: 'Garura finds Rocky', snippet: 'Rocky is too much powerful'},
     us app.js
                                             {title: 'Adhira finds Rocky', snippet: 'Adhira cannot beat Rocky'},
    package-lock.json
    package.json
```

Using next()

```
app.use((req,res,next)=>{
    console.log('new request made:');
    console.log('host:', req.hostname);
    console.log('path:', req.path);
    console.log('method:', req.method);
    next();
});
```

```
EXPLORER
                       us app.js
                       app.js > ...
8 //listen for request
OPEN EDITORS
 X Js app.js
                               app.listen(3000);
NODE-CRASH-COURSE2
> node_modules
                               app.use((req,res,next)=>{

✓ Image: Views

                                  console.log('new request made:');
                                   console.log('host:', req.hostname);
 partials
                                   console.log('path:', req.path);
    4% footer.ejs
                                   console.log('method:', req.method);
    4% head.ejs
                                   next();
    4% nav.ejs
   4% 404.ejs
                               app.use((req,res,next)=>{
                                console.log('in the next middleware:');
   ■ 404.html
   4% about.ejs
   about.html
   create.ejs
                               app.get('/',(req,res)=>{
   index.ejs
                                const blogs =[
   ፱ index.html
                                   {title: 'Rocky finds gold', snippet: 'gold is hard to found'},
                                   {title: 'Garura finds Rocky', snippet: 'Rocky is too much powerful'},
{title: 'Adhira finds Rocky', snippet: 'Adhira cannot beat Rocky'},
  package-lock.json
  package.json
                                res.render('index', {title: 'Home', blogs});
  server.js
                               app.use((req,res,next)=>{
                                   console.log('in the next middleware:');
                         34
                               app.get('/about',(req,res)=>{

    powershell + ∨ □ □
                        PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                        [nodemon] restarting due to changes...
                        [nodemon] restarting due to changes...
                        new request made:
                        host: localhost
                        path: /about
                        method: GET
                        in the next middleware:
                        [nodemon] restarting due to changes...
                        new request made:
                        host: localhost
                        path: /
                        method: GET
OUTLINE
                        in the next middleware:
TIMELINE
```

3rd Party Middlewere

npm install morgan

```
₃ app.js
Ф

∨ OPEN EDITORS

                                                                                                            Js app.js > ...
                                                                                                                  const express = require('express');
                       X Js app.js
                                                                                                                              const morgan = require('morgan'); 15.5k (gzipped: 5.6k)

∨ NODE-CRASH-COURSE2

                   > node_modules
                                                                                                                              const app = express();

√ Image: Views

✓ Image: 

∨ □ partials

                                                                                                                             app.set('view engine', 'ejs');
                                <% footer.ejs
                                <% head.ejs
                                                                                                                             app.listen(3000);
                                nav.ejs
                            4% 404.ejs
                                                                                                                          app.use(morgan('dev'));
                             ■ 404.html
                            4% about.ejs
                                                                                                                             app.use((req,res,next)=>{
                             about.html
                                                                                                                                         console.log('new request made:');
                                                                                                                                          console.log('host:', req.hostname);
                            create.ejs
                            index.ejs
                                                                                                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                                                     > powershell
                            index.html
                          us app.js
                                                                                                             in the next middleware:
☻
                                                                                                             GET /blog/create 304 4.773 ms - -
                          package-lock.json
                                                                                                            new request made:
                          package.json
                                                                                                            host: localhost
                          us server.js
                                                                                                            path: /about
                                                                                                             method: GET
                                                                                                             in the next middleware:
                                                                                                             in the next middleware:
                                                                                                            GET /about 304 4.300 ms - -
                                                                                                             new request made:
                                                                                                             host: localhost
                                                                                                             path: /
                                                                                                             method: GET
                                                                                                             in the next middleware:
                                                                                                            GET / 304 3.808 ms - -
                                                                                                             new request made:
                                                                                                             host: localhost
                                                                                                             path: /about
                                                                                                             method: GET
                                                                                                             in the next middleware:
                                                                                                             in the next middleware:
                                                                                                             GET /about 304 3.034 ms - -
                                                                                                             new request made:
                                                                                                             host: localhost
                                                                                                             path: /blog/create
                                                                                                             method: GET
                                                                                                             in the next middleware:
                                                                                                             in the next middleware:
                                                                                                             GET /blog/create 304 4.488 ms - -
```

Static Files

```
const morgan = require('morgan');
app.use(express.static('public'));
```