```
res.send("this is a random page");
  21
  22
        });
  23
        app.get("/err", (req, res) => {
  24
          abcd = abcd:
  25
  26
        }):
  27
        app.use((err, req, res, next) => {
  28
          console.log("---- ERROR -----");
  29
        });
  30
  31
        app.use((req, res) => {
  32
        res.status(404).send("Page not found!");
  33
        });
  34
  35
        app.listen(8080, () => {
  36
          console.log("server listening to port 8080");
  37
        21.
  38
 PROBLEMS OUTPUT
                       TERMINAL
                                  DEBUG CONSOLE
o shradhakhapra@Shradhas-MacBook-Air Middlewares % nodemon app.js
  [nodemon] 3.0.1
  [nodemon] to restart at any time, enter `rs`
  [nodemon] watching path(s): *.*
  [nodemon] watching extensions: js,mjs,cjs,json
  [nodemon] starting `node app.js
 server listening to port 8080
     --- ERROR
```

```
app.get("/err", (req, res) => {
  abcd = abcd;
});

app.use((err, req, res, next) => {
  console.log("----- ERROR -----");
  next();
});
```

← → C ① localhost:8080/err

Cannot GFT /err

```
19
     app.get("/random", (req, res) => {
20
        res.send("this is a random page");
21
22
     });
23
     app.get("/err", (req, res) => {
24
       abcd = abcd;
25
   });
26
27
     app.use((err, req, res, next) => {
28
       console.log("---- ERROR ----
29
       next(err);
                         I
30
31
```

```
ReferenceError: abcd is not defined

at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/app.js:25:3

at Layer.handle [as handle_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/route.js:144:13)

at Route.dispatch (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/route.js:114:3)

at Layer.handle [as handle_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/route.js:195:5)

at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/layer.js:95:5)

at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/index.js:284:15

at Function.process_params (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/index.js:346:12)

at next (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/index.js:280:10)

at expressInit (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/middleware/init.js:40:5)

at Layer.handle [as handle_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/express/lib/router/layer.js:95:5)
```

```
27
     app.use((err, req, res, next) => {
28
       console.log("---- ERROR -----");
29
30
       next(err);
     });
31
32
     app.use((err, req, res, next) => {
33
      console.log("----- ERROR2 Middleware -----");
34
35
36
37
       next(err);
     });
```

ReferenceError: abcd is not defined
at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/app.js:25:3
at Layer.handle [as handle request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/route.js:144:13)
at Route.dispatch (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/route.js:114:3)
at Layer.handle [as handle\_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/route.js:114:3)
at Layer.handle [as handle\_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/layer.js:95:5)
at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/index.js:284:15
at Function.process\_params (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/index.js:346:12)
at next (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/index.js:280:10)
at expressInit (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/middlewares/init.js:40:5)

at Layer.handle [as handle\_request] (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modules/express/lib/router/layer.js:95:5)

	at /Users/shradhakhapra/webClassroom/Backend/Middlewares/app.js:25:3
	at Layer.handle [as handle_request] (/Users/shradhakhapra/WebClassroom/Ba
s/e	express/lib/router/layer.js:95:5)
	at next (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modu
s:1	l44:13)
	at Route.dispatch (/Users/shradhakhapra/WebClassroom/Backend/Middlewares,
er	route.js:114:3)
	at Layer.handle [as handle_request] (/Users/shradhakhapra/WebClassroom/Ba
s/e	express/lib/router/layer.js:95:5)
	at /Users/shradhakhapra/WebClassroom/Backend/Middlewares/node_modules/ex
4	

at Function.process\_params (/Users/shradhakhapra/WebClassroom/Backend/Mic

at next (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/node\_modu

at expressInit (/Users/shradhakhapra/WebClassroom/Backend/Middlewares/n

server listening to port 8080

/lib/router/index.js:346:12)

s:280:10)

ERROR2 Middleware -

ReferenceError: abcd is not defined

-- ERROR --

# **Error Handlers**

Custom

#### **Error handling Middleware**

agupta7385@gmail.com

```
app.use((err, req, res, next) => {
    console.log("---- ERROR -----");
    next(err);
});
```

## **Error Handlers**

Custom

**Error handling Middleware** 

```
app.use((err, req, res, next) => {
snehaguconsole log("eem- ERROR ----");
    next(err);
});
```



next(ess)

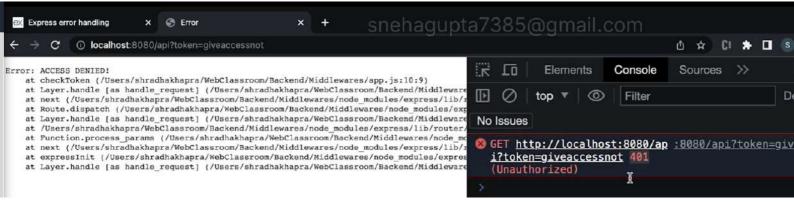


```
JS ExpressError.js X
                          JS app.js
  EXPLORER
                           JS ExpressError.js > [] <unknown>

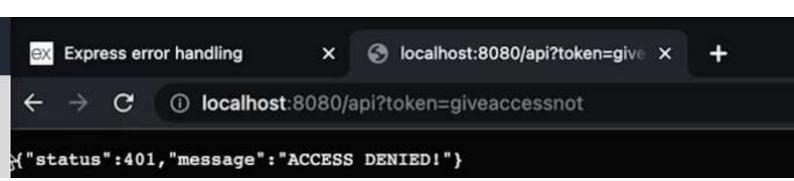
✓ MIDDLEWARES

                                  class ExpressError extends Error {
                             1
  > node_modules
                             2
                                     constructor(status, message) {
 JS app.js
                                       super();
                             3
 JS ExpressError.js
                             4
                                       this.status = status;
 {} package-lock.json
                             5
                                       this.message = message;
 {} package.json
                             6
                                    }
                             8
                                  module.exports = ExpressError;
                             9
                            10
```

```
Js Express From agupta 7385@gmail.
  EXPLORER
                         JS app.js
                                     X
                          JS app.js > [@] checkToken
∨ MIDDLEWARES
                                const express = require("express");
  > node_modules
                                const app = express();
                            2
 Js app.js
                                const ExpressError = require("./ExpressError");
                            3
 JS ExpressError.js
 {} package-lock.json
                                const checkToken = (req, res, next) => {
                                  let { token } = req.query;
                            6
 {} package.json
                                  if (token === "giveaccess") {
                                    next();
                                 ?}
                                 throw new ExpressError(401 "ACCESS DENIED!");
                           10
                           11
                                 };
                           12
                                app.get("/api", checkToken, (req, res) => {
                           13
                                res.send("data");
                           14
                           15
                                });
                           16
```



```
JS app.js
                                     X JS ExpressError.js
  EXPLORER
∨ MIDDLEWARES
                          JS app.js > ...
  > node_modules
                                app.get("/random", (req, res) => {
                           21
                                res.send("this is a random page");
 JS app.js
                           22
                                });
                           23
 JS ExpressError.js
                           24
 {} package-lock.json
                                app.get("/err", (req, res) => {
                           25
 {} package.json
                                abcd = abcd;
                           26
                                 });
                           27
                           28
                                 app.use((err, req, res, next) => {
                           29
                                  console.log("----- ERROR -----");
                           30
                                  res.send(err);
                           31
                           32
                                 });
                           33
```



## **Error Class**

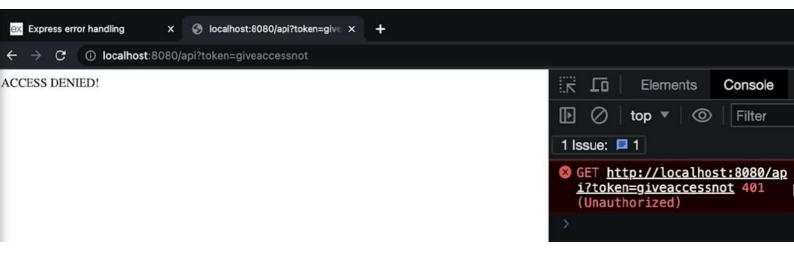
#### Custom

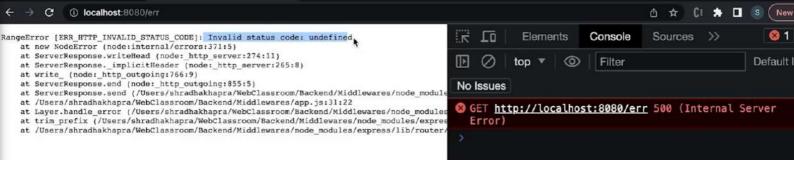
```
app.use((err, req, res, next) => {
  let { status = 500, message = "SOME ERROR" } = err;
  res.status(status).send(message);
});
```

```
JS app.js
                                           JS ExpressError.js
                                      ×
  EXPLORER
                          JS app.js > 🕤 app.use() callback

✓ MIDDLEWARES

  > node_modules
                                 app.get("/random", (req, res) => {
                           21
                                 res.send("this is a random page");
 JS app.js
                           22
                                 });
                           23
 JS ExpressError.js
                           24
 {} package-lock.json
                                 app.get("/err", (req, res) => {
                           25
 {} package.json
                                   abcd = abcd;
                           26
                                 });
                           27
                           28
                                 app.use((err, req, res, next) => {
                           29
                                    let { status, message } = err;
                           30
                                    res.status(status).send(message);
                            31
```





express coros L

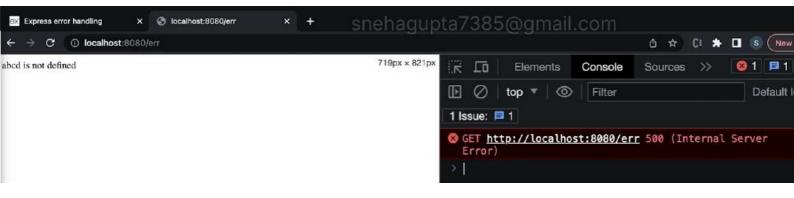
### **Error Class**

Custom

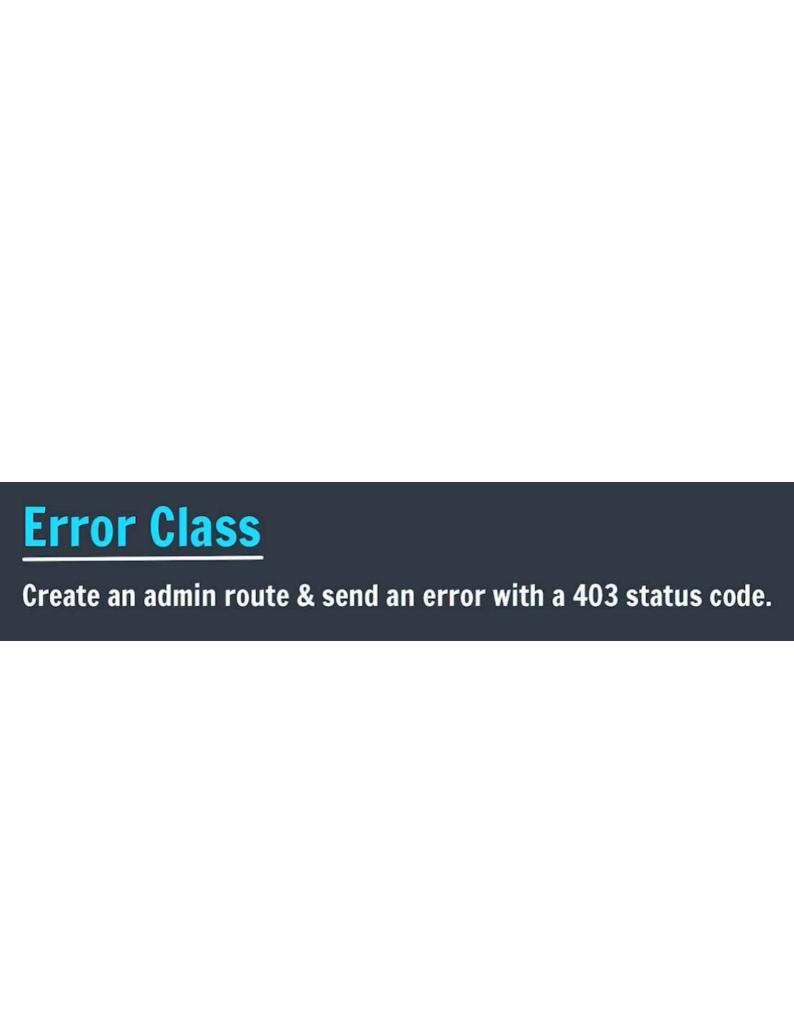
```
app.use((err, req, res, next) => {
  let { status = 500, message = "SOME ERROR" } = err;
  res.status(status).send(message);
});
```

Err object -> valid statu code

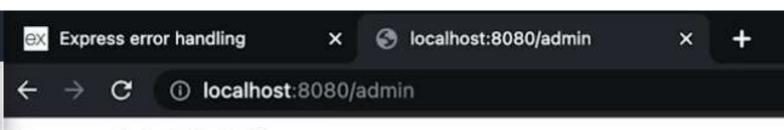
```
Js app.js
                                           JS ExpressError.js
  EXPLORER
                                      ×
                          JS app.js > ♦ app.use() callback > ≥ status
∨ MIDDLEWARES
  > node_modules
                           20
                           21
                                 app.get("/random", (req, res) => {
 Js app.js
                                  res.send("this is a random page");
                           22
 JS ExpressError.js
                           23
                                 });
 {} package-lock.json
                           24
 {} package.json
                           25
                                 app.get("/err", (req, res) => {
                           26
                                  abcd = abcd;
                           27
                                 });
                           28
                                 ap.use((err, req, res, next) => {
                           29
                                   let { status = 500, message } = err;
                           30
                                   res.status(status).send(message 1;
                           31
                                 });
                           32
                           33
                                 // app.use((req, res) => {
                           34
                                 // res.status(404).send("Page not found!");
                           35
                                 // });
                           36
```



```
EXPLORER
                         Js app.js
                                      ×
                                           JS ExpressError.js
                          Js app.js > 分 app.use() callback > ❷ message
∨ MIDDLEWARES
  > node_modules
                                 app.get("/random", (req, res) => {
                           21
 Js app.js
                                  res.send("this is a random page");
 JS ExpressError.js
                                 });
 {} package-lock.json
 {} package.json
                                 app.get("/err", (req, res) => {
                           25
                                  abcd = abcd;
                                 });
                                 app.use((err, req, res, next) => {
                                  let { status = 500, message = "Some Error Occurred" } = err;
                           30
                                   res.status(status).send(message); [
                                 });
```



```
JS ExpressError.js
  EXPLORER
                          JS app.js
                                      ×
                           JS app.js > \bigcirc app.get("/admin") callback
∨ MIDDLEWARES
 > node_modules
                           20
                           21
                                 app.get("/random", (req, res) => {
 Js app.js
                                  res.send("this is a random page");
                           22
 JS ExpressError.js
                           23
                                 });
 {} package-lock.json
                           24
 {} package.json
                                 app.get("/err", (req, res) => {
                           25
                                  abcd = abcd;
                           26
                                 });
                                 app.get("/admin", (req, res) => {
                                  throw new ExpressError(403, "Access to admin is Forbidden");
                                 });
                           32
                                 app.use((err, req, res, next) => {
                           33
                           34
                                   let { status = 500, message = "Some Error Occurred" } = err;
                                   res.status(status).send(message);
                                 });
                           36
```



Access to admin is Forbidden