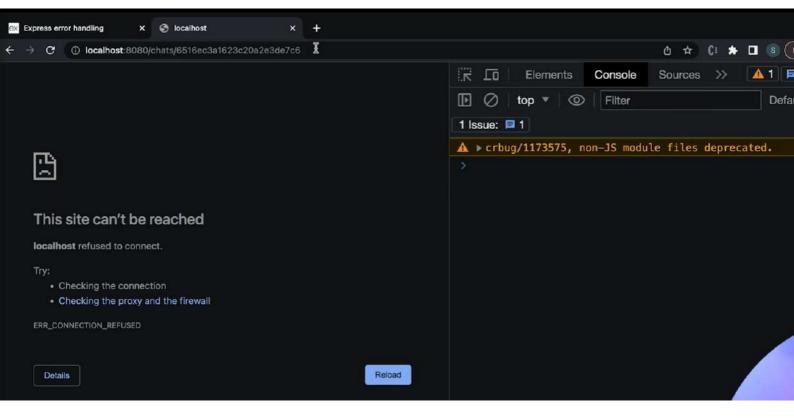
### mext()

#### **Handling Async Errors**

```
//NEW - Show Route
app.get("/chats/:id", async (req, res, next) => {
    let { id } = req.params;
anehaglet shat = await Chat.findById(id);
    if (!chat) {
        return next(new ExpressError(404, "Chat not Found or Deleted"));
    }
    res.render("edit.ejs", { chat });
});
```

```
JS index.js
           ×
                JS ExpressError.js
JS index.js > 😭 app.get("/chats/:id") callback
         await newChat.save();
         res.redirect("/chats");
 50
       });
 51
 52
       //NEW - Show Route
 53
       app.get("/chats/:id", async (req, res, next) => {
 54
         let { id } = req.params;
 55
         let chat = await Chat.findById(id);
 56
         if (!chat) {
 57
       throw Inew ExpressError(404, "Chat not found");
 58
         res.render("edit.ejs", { chat });
 60
       });
 61
 62
 63
       //Edit Route
                                                                         OUTPUT
PROBLEMS
                      TERMINAL
                                 DEBUG CONSOLE
```



```
Js index.js
            X
                 JS ExpressError.js
Js index.js > \( \mathred{O} \) app.post("/chats") callback
 36
 37
        //Create Route
       app.post("/chats", async (req, res, next) => {
 38
 39
          try {
            let { from, to, message } = req.body;
 40
            let newChat = new Chat({
 41
              from: from,
 42
 43
              to: to,
 44
              message: message,
 45
              created_at: new Date(),
 46
            });
 47
            await newChat.save();
 48
            res.redirect("/chats");
 49
         } catch (err) {
 50
            next(err);
 51
 52
 53
       });
 54
 55
       //NEW - Show Route
       app.get("/chats/:id", async (req, res, next) => {
 56
PROBLEMS
             OUTPUT
                        TERMINAL
                                    DEBUG CONSOLE
       path: 'to',
       value: '',
       reason: undefined,
       [Symbol(mongoose:validatorError)]: true
```

```
JS index.js X JS ExpressError.js
  Js index.js > 😭 app.get("/chats/:id") callback
             next(err);
   20
   56
   57
         });
   58
   59
         //NEW - Show Route
         app.get("/chats/:id", async (req, res, next) => {
   60
   61
           try {
             let { id } = req.params;
   62
   63
             let chat = await Chat.findById(id);
             if (!chat) {
   64
               next(new ExpressError(500, "Chat not found"));
   65
             }
   66
             res.render("edit.ejs", { chat });
   67
   68
           } catch (err) {
   69
             next(err);
   70
   71
         });
  PROBLEMS
              OUTPUT
                         TERMINAL
                                    DEBUG CONSOLE
      [Symbol(mongoose#Model)]: true
    }
  [nodemon] app crashed - waiting for file changes before starting...
o shradhakhapra@Shradhas-MacBook-Air Project % nodemon index.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 index.is
```

# using wrapAsync

- 1) normal errors 1 2) asynch -> Eprex Error
  - 3) try-catch

function weapth (fn) & APNA
return function (reg, res, next)

ful seq, res, next)

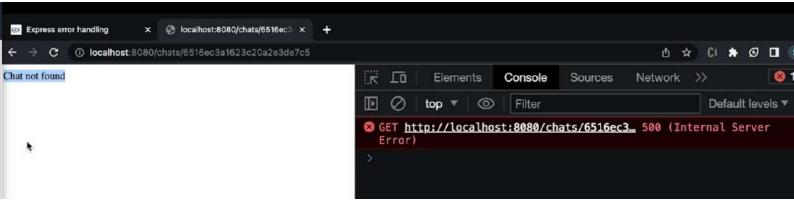
2

function weapthy (fn) 2 APNA return function (seg, red, ma) settless fn(seg, res, next). catch (cos) 2

```
Js index.js

    JS ExpressError.js

Js index.js > 😭 asyncWrap() callback
       });
 57
 58
       function asyncWrap(fn) {
 59
         return function (req, res, next) {
 60
           fn(req, res, next).catch((err) => next(err));
 61
         };
 62
 63
 64
 65
       //NEW - Show Route
       app.get("/chats/:id", asyncWrap(async (req, res, next) => {
 66
           let { id } = req.params;
 67
           let chat = await Chat.findById(id);
 68
           if (!chat) {
 69
             next(new ExpressError(500 g "Chat not found"));
 70
 71
           res.render("edit.ejs", { chat });
 72
       }));
 73
 74
```



### using wrapAsync





- 1) normal errors

  2) asynch -> Eprex Error
  snehagupta7385@gmail.com

  3) try-catch (bully)

  4) asyn wrap -> wrap the callback

## **Mongoose Errors**

```
const handleValidationErr = (err) => {
  console.log("Validation error occurred");
  return err;
};

app.use((err, req, res, next) => {
  console.log(err.name);
  if (err.name === "ValidationError") {
      err = handleValidationErr(err);
    }
    next(err);
});
```

```
JS index.js
              ×
                   JS ExpressError.js
  JS index.js > \( \Omega \) app.use() callback
  114
         );
  115
         app.get("/", (req, res) => {
  116
           res.send("working root");
  117
         });
  118
  119
  120
         app.use((err, req, res, next) => {
  121
           console.log(err.name);
           if (err.name === "ValidationError") {
  122
  123
             console.log("This was a Validation error. Please follow rules");
  124
Mill CO hext (err);
                                         I
  126
         3);
  127
  128
         //Error Handling Middleware
         app.use((err, req, res, next) => {
  129
  130
           let { status = 500, message = "Some Error Occurred" } = err;
  131
           res.status(status).send(message);
         });
  132
  PROBLEMS
              OUTPUT
                         TERMINAL
                                                                               > zsh 🗥
                                     DEBUG CONSOLE
  on.js:609:3)
      at ServerResponse.render (/Users/shradhakhapra/WebClassroom/Mongo/Project/node
  ponse.js:1039:7)
      at /Users/shradhakhapra/WebClassroom/Mongo/Project/index.js:73:9
      at processTicksAndRejections (node:internal/process/task_queues:96:5)
  ValidationError
  CastError
  [nodemon] restarting due to changes...
   [nodemon] starting `node index.js`
```

```
EXPLORER
                           Js index.js
                                             JS ExpressError.js

✓ PROJECT

                            Js index.js > 🕥 app.use() callback

√ models

    Js chat.js
                                   app.get("/", (req, res) => {
   > node_modules
                                     res.send("working root");
   > public
                                   });

√ views

                                   app.use((err, req, res, next) => {
    edit.ejs
                                     console.log(err.name);
    index.ejs
                                     if (err.name === "ValidationError") {
                                       console.log("This was a Validation error. Please follow rules");
    new.ejs
   JS ExpressError.js
                                     next(err);
   JS index.js
                                   });
   JS init.js
   {} package-lock.json
                                Cd/Error Handling Middleware
   {} package.json
                            129
                                   app.use((err, req, res, next) => {
                            130
                                     let { status = 500, message = "Some Error Occurred" } = err;
                            131
                                     res.status(status).send(message);
                                   });
                            132
                                                              DEBUG CONSOLE
                            PROBLEMS
                                        OUTPUT
                                                                                                        > zsh /
                                                  TERMINAL
                            ponse.js:1039:7)
                                at /Users/shradhakhapra/WebClassroom/Mongo/Project/index.js:73:9
                                at processTicksAndRejections (node:internal/process/task_queues:96:5)
                            ValidationError
                            CastError
                            [nodemon] restarting due to changes...
                            [nodemon] starting `node index.js`
                            app is listening
                            connection successful
                            ValidationError
  OUTLINE
                            This was a Validation error. Please follow rules
  > TIMELINE
⊗ 0 △ 0
                                                          Ln 125, Col 13
                                                                         Spaces: 2 UTF-8 LF {} JavaScript
                                                                                                             @ Go
```

```
JS index.js
            X
                JS ExpressError.js
Js index.js > 😭 app.use() callback
       });
118
119
120
       const handleValidationErr = (err) => {
         console.log("This was a Validation error. Please follow rules");
121
122
         console.dir(err);
123
         return err;
124
       };
125
       app.use((err, req, res, next) => {
126
         console.log(err.name);
127
         if (err.name =57) Validation Erro 386 agmail.com
128
           err = handleValidationErr(err);
129
130
131
         next(err);
132
       });
133
       //Error Handling Middleware
134
       app.use((err, req, res, next) => {
135
                                                                          > zsh
PROBLEMS
            OUTPUT
                      TERMINAL
                                DEBUG CONSOLE
```

o shradhakhapra@Shradhas-MacBook-Air Project % nodemon index.js



```
shradhakhapra@Shradhas-MacBook-Air Project % nodemon index.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 index.js
app is listening
connection successful
ValidationError
This was a Validation error. Please follow rules
ValidationError: Chat validation failed: from: Path `from` is required., to: Pat
   at model.Document.invalidate (/Users/shradhakhapra/WebClassroom/Mongo/Projec
b/document.js:3162:32)
   at /Users/shradhakhapra/WebClassroom/Mongo/Project/node_modules/mongoose/lib
   at /Users/shradhakhapra/WebClassroom/Mongo/Project/node_modules/mongoose/lib
   at processTicksAndRejections (node:internal/process/task_queues:78:11) {
 errors: {
   from: ValidatorError: Path `from` is required.
```

[nodemon] restarting due to changes...

```
Js index.js X
                   JS ExpressError.js
 JS index.js > [@] handleValidationErr
 118
        1);
 119
        const handleValidationErr = (err) => {
 120
           console.log("This was a Validation error. Please follow rules");
 121
 122
           console.dir(err.message);
 123
           return err;
 124
        }:
 125
        app.use((err, req, res, next) => {
 126
           console.log(err.name);
 127
           if (err.name === "ValidationError") {
 128
 129
             err = handleValidationErr(err);
 130
 131
          next(err):
                                     DEBUG CONSOLE
                                                                                 > zsl
 PROBLEMS
              OUTPUT
                         TERMINAL
o shradhakhapra@Shradhas-MacBook-Air Project % nodemon index.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 index.js`
 app is listening
 connection successful
 ValidationError
 This was a Validation error. Please follow rules
 'Chat validation failed: from: Path `from` is required., to: Path `to` is required.
           I
```