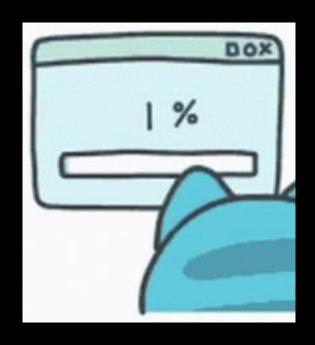


21. File Upload & Download

- 1. Adding a File Picker
- 2. Creating Multipart Form
- 3. Handling Multipart Form Data
- 4. Saving Image Files
- 5. Custom File Names
- 6. Restricting Upload File Types
- 7. Handling Edits
- 8. Serving Saved Data
- 9. Serving Files after Auth
- 10. Deleting Files





21.1 Adding a File Picker

- Input Element: Use <input type="file"> to create a file picker.
- Multiple Files: Add multiple attribute to allow selecting multiple files.
- File Types: Use accept attribute to restrict file types (e.g., accept=".jpg, .png").

```
<input type="file"
  name="photo"
  class="w-full px-4 py-2 mb-4 border ■ border-gray-300
  rounded-lg focus:outline-none ■ focus:border-blue-500"
/>
```

Add your Home

Name of your hou	ıse	
Daily rent of your	home	
Where is your hor	me	
Rating of the hous	se	
Choose File No	file chosen	
Describe your hou	use	
	Add Home	



21.2 Creating Multipart Form

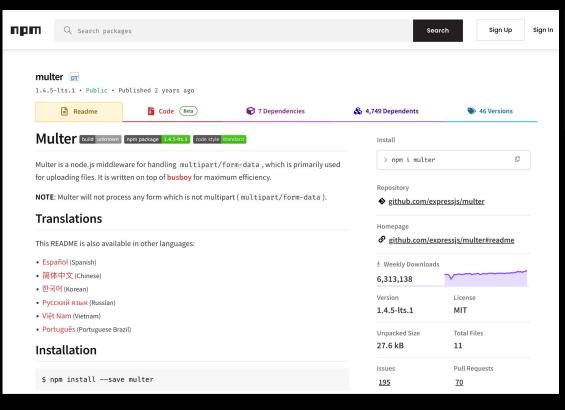
```
exports.postAddHome = (req, res, next) => {
  const { houseName, price, location, rating, photoUrl, description } = req.body;
  console.log(req.body);

Server running at: http://localhost:3001
{
  id: '',
  houseName: 'New House',
  price: '1299',
  location: 'kashmir',
  rating: '3.9',
  photo: 'IMG_4705.HEIC',
  description: 'asdfasdf'
}
```

×	Headers	Payload	Preview	Response	Initiator	Timing	Cookies
▼ Gen	eral						
Request URL: http://localhost:3001/host/edit-home						-home	
Requ	est Method:			POST			
Statu	s Code:			302 F	ound		
Remo	ote Address:			[::1]:300	1		
Refer	rer Policy:			strict-or	igin-when-d	cross-origi	n
▶ Response Headers (8)							
▼ Request Headers		s					
			Raw				
Acce	pt:			text/htm	l,applicatio	n/xhtml+xn	nl,application/xml;q=0.9,imag
Acce	pt-Encoding			gzip, det	flate, br, zst	:d	
Acce	pt-Language):		en-GB,e	n;q=0.9		
Cach	e-Control:			max-age	=0		
Conn	ection:			keep-ali	ve		
Cont	ent-Length:			114			
Cont	ent-Type:			applicati	on/x-www-	form-urlen	coded
Cook	ie:			connect	.sid=s%3AJ	IHZ1M5GA	nP9QuJSwuUTfVrbHSq6HB
Host				localhos	t:3001		
Origi	n:			http://loo	calhost:300	1	



21.3 Handling Multipart Form Data



```
prashantjain@Prashants-MacBook-Pro 16 email and advance auth % npm install multer added 17 packages, and audited 298 packages in 719ms

50 packages are looking for funding run `npm fund` for details

1 high severity vulnerability

To address all issues, run: npm audit fix

Run `npm audit` for details.
```



21.3 Handling Multipart Form Data

```
<form action="/host/<%= editing ? "edit-home" : "add-home"%>" method="POST" enctype="multipart/form-data"
class="w-full max-w-md">
const multer = require('multer');
 app.use(express.static(path.join(rootDir, "public")));
 app.use(bodyParser.urlencoded({ extended: true }));
 console log(reg.file);
 fieldname: 'photo'.
 originalname: 'IMG 4705.HEIC',
 encoding: '7bit',
 mimetype: 'image/heic',
 buffer: <Buffer 00 00 00 1c 66 74 79 70 68 65 69 63 00 00 00 74 6d
00 00 21 68 64 6c 72 00 00 ... 2246669 more bytes>.
 size: 2246719
```



21.4 Saving Image Files

```
app.use(multer({ dest: 'uploads/'}).single('photo'));
  fieldname: 'photo',
  originalname: 'house1.png',
  encoding: '7bit',
  mimetype: 'image/png',
  destination: 'uploads/',
  filename: '0c710a9b2903e323fc38e7926650d159',
  path: 'uploads/0c710a9b2903e323fc38e7926650d159',
  size: 387102
  routers
1 0c710a9b2903e323fc38e7926650d159
🗸 📠 util
```



21.5 Custom File Names

```
// This defines where uploaded files will be stored and how they'll be named
const storage = multer.diskStorage({
    // Set the destination folder for uploaded files
    destination: (req, file, cb) => {
        cb(null, 'uploads/'); // Files will be saved in the 'uploads' directory
      },
      // Set the filename for uploaded files
      filename: (req, file, cb) => {
        cb(null, new Date().toISOString() + '-' + file.originalname);
    }
});
```

app.use(multer({ storage }).single('photo'));

```
> routers

view uploads

0c710a9b2903e323fc38e7926650d159

2024-11-25T11:26:17.582Z-house1.png

view util
```



21.6 Restricting Upload File Types

```
const fileFilter = (req, file, cb) => {
 if ([ 'image/jpeg', 'image/png', 'image/jpg' ].includes(file.mimetype)) {
    cb(null, true);
 } else {
   cb(null, false);
```

```
app.use(multer({ storage, fileFilter }).single('photo'));
```

Adding this filter, now multer would not have the file if it does not match the type and reg, file will just be undefined.

```
exports.postEditHome = (req, res, next) => {
  const { id, houseName, price, location, rating, photoUrl, description } =
    req.body;
 if (!reg.file) {
    return res.status(400).send('No image provided');
```



21.6 Restricting Upload File Types

```
if (!req.file) {
  return res.status(400).send('No image provided');
const photoUrl = req.file.path;
   _id: ObjectId('67445aa6e25a19de45a1b82e')
   houseName: "New House"
   price: 1299
   location: "kashmir"
   rating: 3.9
   description: "asdfasdf"
   host : ObjectId('673cacd23e8557da8e22d9b1')
   v : 0
   photoUrl : "uploads/2024-11-25T11:35:47.086Z-house1.png"
```



21.7 Handling Edits

```
// business logic outside model
Home.findById(id)
  .then((existingHome) => {
    if (!existingHome) {
      console.log("Home not found for editing");
      return res.redirect("/host/host-homes");
    existingHome.houseName = houseName;
    existingHome.price = price;
    existingHome.location = location;
    existingHome.rating = rating;
    if (req.file) {
      existingHome.photoUrl = req.file.path;
    existingHome.description = description;
    return existingHome.save();
```

While editing we can make sure that we only overwrite the photoUrl in case a new valid image was uploaded. And don't force the user to upload images each time they edit.



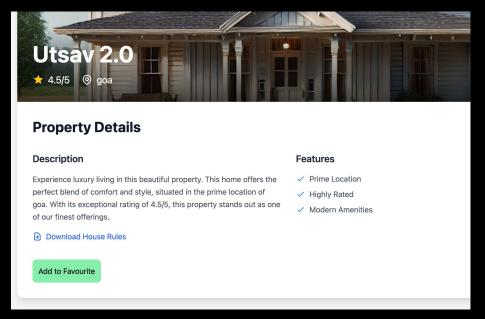
21.8 Serving Saved Data

```
app.use(express.static(path.join(rootDir, "public")));
app.use('/uploads', express.static(path.join(rootDir, "uploads")));
app.use(bodyParser.urlencoded({ extended: true }));
```

This is done as like in case of public, things inside public will be served like they are in root folder and the url does not have public in it. Here also either remove uploads/ from the image path, or add the qualifier.



21.9 Serving Files after Auth





21.9 Serving Files after Auth

storeRouter.get("/rules/:homeId", storeController.getHouseRules);

```
const path = require('path');
const rootDir = require('../util/path-util');
exports.getHouseRules = [(req, res, next) => {
 if (!req.session.isLoggedIn) {
   return res.redirect("/login");
 next();
(reg, res, next) => {
 const homeId = reg.params.homeId;
 // We can make it house specific after have homeId in file name like this: `House Rules-${homeId}.pdf
 const rulesFileName = `House Rules.pdf`;
 const filePath = path.join(rootDir, 'rules', rulesFileName);
 // res.sendFile(filePath);
   res.download(filePath, 'Rules.pdf');
```



21.10 Deleting Files

✓ Image util

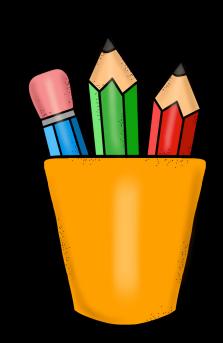
Js file.js

```
const fs = require('fs');
 exports.deleteFile = (filePath) => {
  fs.unlink(filePath, (err) => {
    if (err) throw err;
  });
existingHome.location = location;
existingHome.rating = rating;
if (req.file) {
  deleteFile(existingHome.photoUrl);
  existingHome.photoUrl = req.file.path;
```



Revision

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Practise Milestone

Take your airbnb forward:

- 1. Add a new button for rules upload on the edit page.
- 2. Make it downloadable on the home detail page.

