

DAY 7 – Hosting (Netlify Focus), Deployment Options, Final Mini Project & Complete React Bootcamp Summary

1. What Is Hosting?

Simple Definition:

Hosting means **uploading your project to the internet** so anyone can open your website using a link.

Example:

```
https://your-react-app.netlify.app
```

Hosting is important because:

✓ Your project becomes live ✓ You can show it to others ✓ Required for portfolios ✓ Required for internships & placements ✓ Makes you feel like a real developer

2. What Files Should Be Hosted in React?

When you run React in development, it's not optimized. So we must create a **production build**:

```
npm run build
```

This creates a folder:

```
build/
```

This folder contains:

- index.html
- CSS
- JS
- Assets and everything optimized for hosting.

You must upload the **build folder to hosting platforms.**

3. Hosting React App on Netlify (Recommended for beginners)

Netlify is:

- Free
- Fast
- Easiest
- Auto deployment from GitHub
- Great for students

Below are the **full steps**:

Step 1: Build Your React App

Inside project folder:

```
npm run build
```

You will see:

```
build/
```

Step 2: Go to Netlify

Website:

```
https://www.netlify.com
```

Create account using:

- GitHub
 - Google
 - Email
-

Step 3: Deploy with "Drag and Drop" (Easier Method)

1. Go to Netlify dashboard
2. Click **Add New Site**
3. Choose **Deploy manually**
4. Drag and drop the **build folder**
5. Wait for upload
6. Netlify generates your website link automatically

Example:

```
https://myreactapp123.netlify.app
```

Step 4: Hosting Using GitHub (Professional Method)

1. Upload your React project to GitHub
2. In Netlify → Select **Add New Site**
3. Choose **Import from GitHub**
4. Select your repository
5. Netlify auto-detects:

```
build command: npm run build  
publish directory: build
```

6. Click **Deploy Site**

Netlify automatically redeploys every time you push changes to GitHub.

5. Setting Custom Domain in Netlify (Optional Advanced)

Example custom domain:

```
www.muneesprojects.in
```

Steps:

1. Buy domain (Namecheap, GoDaddy, Hostinger)
2. Go to Netlify → Domain settings
3. Add your domain

4. Update DNS nameservers from domain provider
5. Wait 5–10 minutes

Site becomes live with your own domain.

6. Environment Variables in Netlify (API Keys)

Go to:

```
Site Settings → Build & Deploy → Environment
```

Add keys like:

```
REACT_APP_API_KEY = xxxxx
```

React can use these during build.

7. Other Hosting Options (Explain to Students)

1. Vercel

- Also free
- Best for Next.js
- Automatic GitHub deployment
- Easy build process

Why use it? ✓ Lightning fast ✓ Supports modern frameworks ✓ Simple UI

2. GitHub Pages

- Free
- Supports static React apps
- Needs small config: Install:

```
npm install gh-pages --save-dev
```

Why use it? ✓ Simple ✓ Free forever ✓ Perfect for portfolios

3. Firebase Hosting

- Very fast
- Good for apps with backend
- Requires Firebase login

Commands:

```
firebase init  
firebase deploy
```

Used when your app uses Firebase DB, Auth etc.

4. Render

- Free
 - Can host fullstack (backend + frontend)
 - Good alternative for Heroku
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5. Surge

- Very simple
- One command deployment

```
surge ./build yourname.surge.sh
```

8. Final Mini Project (Implement on Day 7)

Suggested options:

- Weather App
 - Movie Search App
 - Notes App
 - Calculator App
 - Recipe Finder
 - Simple Chat UI
 - College Info App
 - Small Ecommerce UI
-

9. React Folder Structure (Best Practices)

```
src/  
├── components/  
│   ├── Card.jsx  
│   ├── Button.jsx  
│   └── Navbar.jsx  
├── pages/  
│   ├── Home.jsx  
│   └── About.jsx  
├── assets/  
│   ├── images/  
│   └── icons/  
├── hooks/  
├── services/ (API functions)  
├── App.jsx  
└── index.js
```
