✅ Day 10: CODEOWNERS File for Auto Review Assignment

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📌 What Is It?

The **CODEOWNERS** file in a GitHub repository allows you to automatically assign reviewers to specific files, folders, or entire sections of a codebase.

Once set up, GitHub will **automatically request reviews** from the right people whenever someone opens a pull request affecting those areas.
This is perfect for **team collaboration, scaling open source, or enforcing code ownership** in large projects.

💡 Why It's Useful

- ✅ Auto-assigns the right reviewer for every PR

- ✅ Helps distribute code responsibility

- 🔒 Ensures all changes are reviewed by domain experts

- 📈 Saves time and improves workflow consistency

- 👥 Makes collaboration more organized in large teams

🛠️ How to Create a CODEOWNERS File

📁 Step 1: Create the File

Add a new file named exactly:

.github/CODEOWNERS

(Or, place it in the root directory or inside docs/, if needed)

📃 **Step 2: Define Owners**

Inside the CODEOWNERS file, specify patterns and owners like this:

Assign an owner to the whole repo

*   @deep-ghinaiya

Assign a team to a folder

/docs/ @doc-team

Assign individual files

README.md @deep-ghinaiya

src/utils.js @reviewer1

Each time a PR modifies those files, GitHub auto-assigns the mentioned users/team as reviewers.

✅ **Supported Syntax**

- * = Everything in the repo

- *.js = All JavaScript files

- /folder/ = Files in a specific folder

- @username = GitHub user

- @org/team-name = GitHub team

🔒 **Permissions Required**

To be assigned as a code owner, the user or team must have **write access** to the repo. Otherwise, GitHub won't trigger review requests.

🧠 Pro Tips

- Use CODEOWNERS with **branch protection rules** for required reviews

- Break down code areas by folders for clearer ownership

- Combine with **GitHub Projects** and **Actions** for smooth workflows

🔗 Resources to Explore

- GitHub Docs: [About CODEOWNERS](#)

- Example File: [GitHub CODEOWNERS Example](#)

🙌 Final Thought

"The best code is not just written — it's reviewed by the right people. CODEOWNERS makes that automatic."