

🌐 AI-Driven Development - 30-Day Challenge-Task- 6

Task 6 - GitHub × MCP Integration (Hosted Method)

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⌚ Deadline: 48 Hours

Slot:(Friday 6–9 PM)

📌 Steps to Complete Task 6 (Easy Method)

◆ Step 1 - Create Your GitHub Personal Access Token (PAT)

✓ repo (Read & Write)

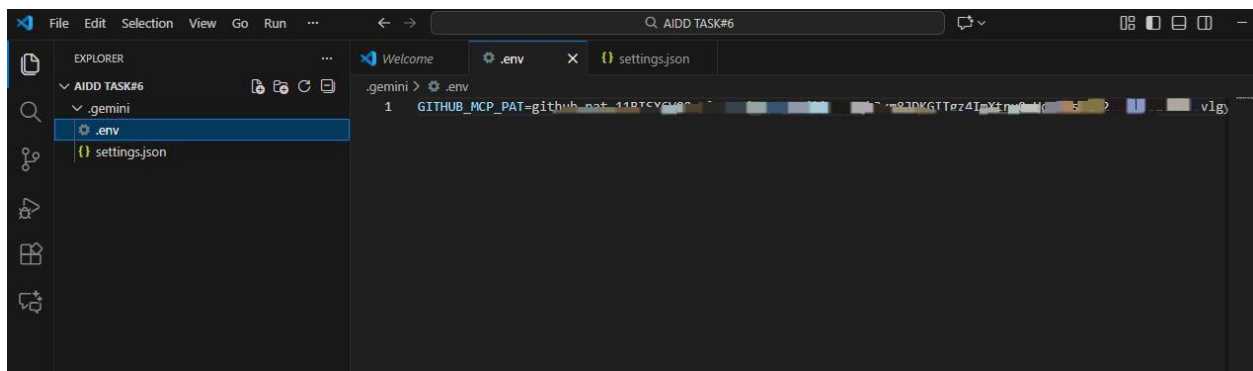
Copy the token and save it safely.

✓ DONE:

◆ Step 2 - Store Your Token Securely

Do NOT put the token directly into JSON.

✓ DONE:



◆ Step 3 - Configure Gemini to Use GitHub MCP Server

✓ DONE:



```
.gemini > {} settings.json > ...
1
2  {
3    "mcpServers": {
4      "github": {
5        "httpUrl": "https://api.githubcopilot.com/mcp/",
6        "headers": {
7          "Authorization": "Bearer $GITHUB_MCP_PAT"
8        }
9      }
10   }
```

◆ Step 4 - Restart Gemini CLI

✓ DONE:



```
> GEMINI

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. ./help for more information.

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

Using: 1 MCP server

> █ Type your message or @path/to/file

~                               no sandbox (see /docs)                               auto
```

◆ Step 5 - Verify Connection

✓ DONE:



```
Gemini - user
> GEMINI

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. /help for more information.

> /mcp list

Configured MCP servers:
0 github - Ready (40 tools, 2 prompts)
Tools:
- add_comment_to_pending_review
- add_issue_comment
- assign_copilot_to_issue
- create_branch
- create_or_update_file
- create_pull_request
- create_repository
- delete_file
- fork_repository
- get_commit
- get_file_contents
- get_label
- get_latest_release
- get_me
- get_release_by_tag
- get_tag
- get_team_members
- get_teams
- issue_read
- issue_write
- list_branches
- list_commits

- get_latest_release
- get_me
- get_release_by_tag
- get_tag
- get_team_members
- get_teams
- issue_read
- issue_write
- list_branches
- list_commits
- list_issue_types
- list_issues
- list_pull_requests
- list_releases
- list_tags
- merge_pull_request
- pull_request_read
- pull_request_review_write
- push_files
- request_copilot_review
- search_code
- search_issues
- search_pull_requests
- search_repositories
- search_users
- sub_issue_write
- update_pull_request
- update_pull_request_branch
Prompts:
- AssignCodingAgent
- IssueToFixWorkflow

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

Using: 1 MCP server

> █ Type your message or @path/to/file

~ no sandbox (see /docs) auto
```

Step 6 - Test the Server

✓ DONE:



```
Gemini - user

list my GitHub repositories

I can list your GitHub repositories by first getting your authenticated GitHub username and then searching for repositories owned by that username.

get_me (github MCP Server) {}

{"login":"SyedaQudsiaAli","id":"170229590","profile_url":"https://github.com/SyedaQudsiaAli","avatar_url":"https://avatars.githubusercontent.com/u/170229590?v=4","details":{"public_repos":8,"public_gists":0,"followers":0,"following":2,"created_at":"2024-05-19T08:03:21Z","updated_at":"2025-11-27T11:49:06Z"}}

I will now list all your repositories using the search_repositories tool.

search_repositories (github MCP Server) {"query":"user:SyedaQudsiaAli"}

{"total_count":8,"incomplete_results":false,"items":[{"id":"802772481","name":"Simple-Calculator","full_name":"SyedaQudsiaAli/Simple-Calculator","html_url":"https://github.com/SyedaQudsiaAli/Simple-Calculator","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-05-19T08:21:28Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"1101507421","name":"AIDD-Task-3_by_qudsia","full_name":"SyedaQudsiaAli/AIDD-Task-3_by_qudsia","html_url":"https://github.com/SyedaQudsiaAli/AIDD-Task-3_by_qudsia","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2025-11-21T19:36:39Z","created_at":"2025-11-21T19:18:52Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"859364438","name":"hackathon-milestones","full_name":"SyedaQudsiaAli/hackathon-milestones","html_url":"https://github.com/SyedaQudsiaAli/hackathon-milestones","language":"HTML","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-09-18T14:54:44Z","created_at":"2024-09-18T14:37:18Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"802772445","name":"SyedaQudsiaAli","full_name":"SyedaQudsiaAli/SyedaQudsiaAli","description":"Config files for my GitHub profile","html_url":"https://github.com/SyedaQudsiaAli/SyedaQudsiaAli","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-05-19T08:21:23Z","created_at":"2024-05-19T08:21:23Z","topics":["config","github-config"],"private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"888534059","name":"to-do-list","full_name":"SyedaQudsiaAli/to-do-list","html_url":"https://github.com/SyedaQudsiaAli/to-do-list","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-05-31T09:14:53Z","created_at":"2024-05-31T09:14:53Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"900408539","name":"E-Commerce-app","full_name":"SyedaQudsiaAli/E-Commerce-app","description":"A Responsive E Commerce website by using Next JS , Tailwind CSS etc","html_url":"https://github.com/SyedaQudsiaAli/E-Commerce-app","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-12-08T17:45:09Z","created_at":"2024-12-08T17:45:09Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"1099025065","name":"AIDD-Task-1_by_qudsia","full_name":"SyedaQudsiaAli/AIDD-Task-1_by_qudsia","html_url":"https://github.com/SyedaQudsiaAli/AIDD-Task-1_by_qudsia","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2025-11-18T13:25:23Z","created_at":"2025-11-18T13:07:29Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":"1099034657","name":"AIDD-Task-2_by_qudsia","full_name":"SyedaQudsiaAli/AIDD-Task-2_by_qudsia","html_url":"https://github.com/SyedaQudsiaAli/AIDD-Task-2_by_qudsia","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2025-11-18T13:28:57Z","created_at":"2025-11-18T13:23:10Z","private":false,"fork":false,"archived":false,"default_branch":"main"}]}

Here are your GitHub repositories:

* Simple-Calculator: https://github.com/SyedaQudsiaAli/Simple-Calculator
* AIDD-Task-3_by_qudsia: https://github.com/SyedaQudsiaAli/AIDD-Task-3_by_qudsia
* hackathon-milestones: https://github.com/SyedaQudsiaAli/hackathon-milestones
* SyedaQudsiaAli: https://github.com/SyedaQudsiaAli/SyedaQudsiaAli (Config files for your GitHub profile)
* to-do-list: https://github.com/SyedaQudsiaAli/to-do-list.
* E-Commerce-app: https://github.com/SyedaQudsiaAli/E-Commerce-app (A Responsive E Commerce website by using Next JS , Tailwind CSS etc.)
```

Thank you!

📄 Submitted to Sir Hamza Syed