



CodeSpaces and opensource workshop

How it acutally works?



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- I am 2nd year undergrad student at Comsats Lahore.
- I have previously contributed to Rocket.Chat in 2024
- I am Beta-MLSA.
- My experiences:
 - - More than 20 interviews with folks working in big Tech.
 - - Part of RSP, Team
 - - over year of developing MERN applications



In this Workshop we'll discuss



Github
Codespaces



What is
opensource?



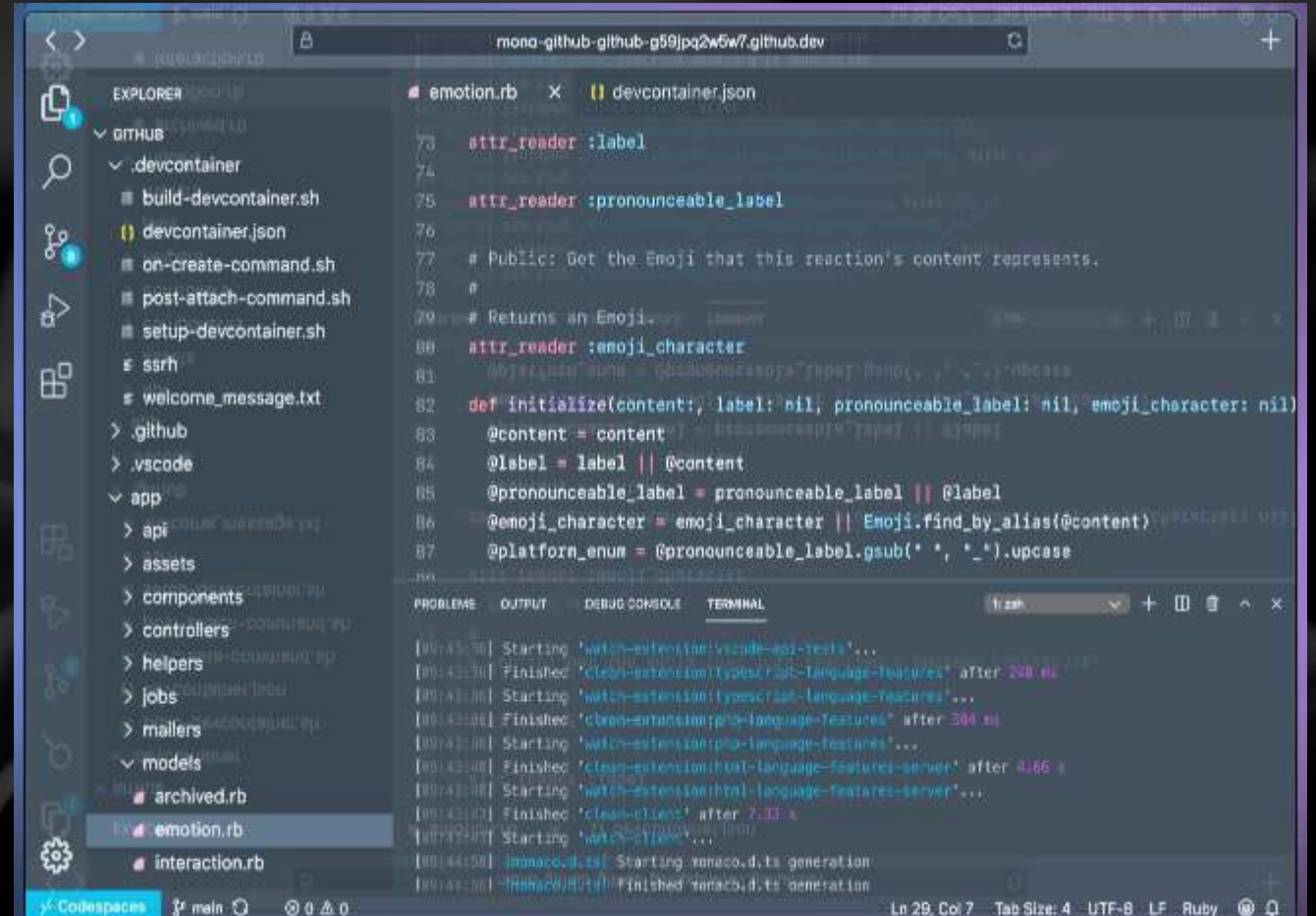
opensource
Programs?



How to crack
them?

why Github Codespaces?

Hey guys, have you heard of codespaces on GitHub? It's like a development playground in the cloud where you can work on your projects. You can make it super easy for everyone to jump in and start coding by setting up a configuration file in your repo. This way, all users can have the same setup when they enter your codespace. It's like magic! So cool, right? Let's all make our projects



The screenshot displays the Github Codespace interface. On the left, the Explorer sidebar shows a file tree with folders like .github, .devcontainer, and app, and files like build-devcontainer.sh, devcontainer.json, and others. The main editor area shows the code for emotion.rb, which includes comments and Ruby code for handling emoji reactions. The bottom panel shows the Terminal with logs indicating the setup of the development environment, including the installation of extensions and the start of the application server.

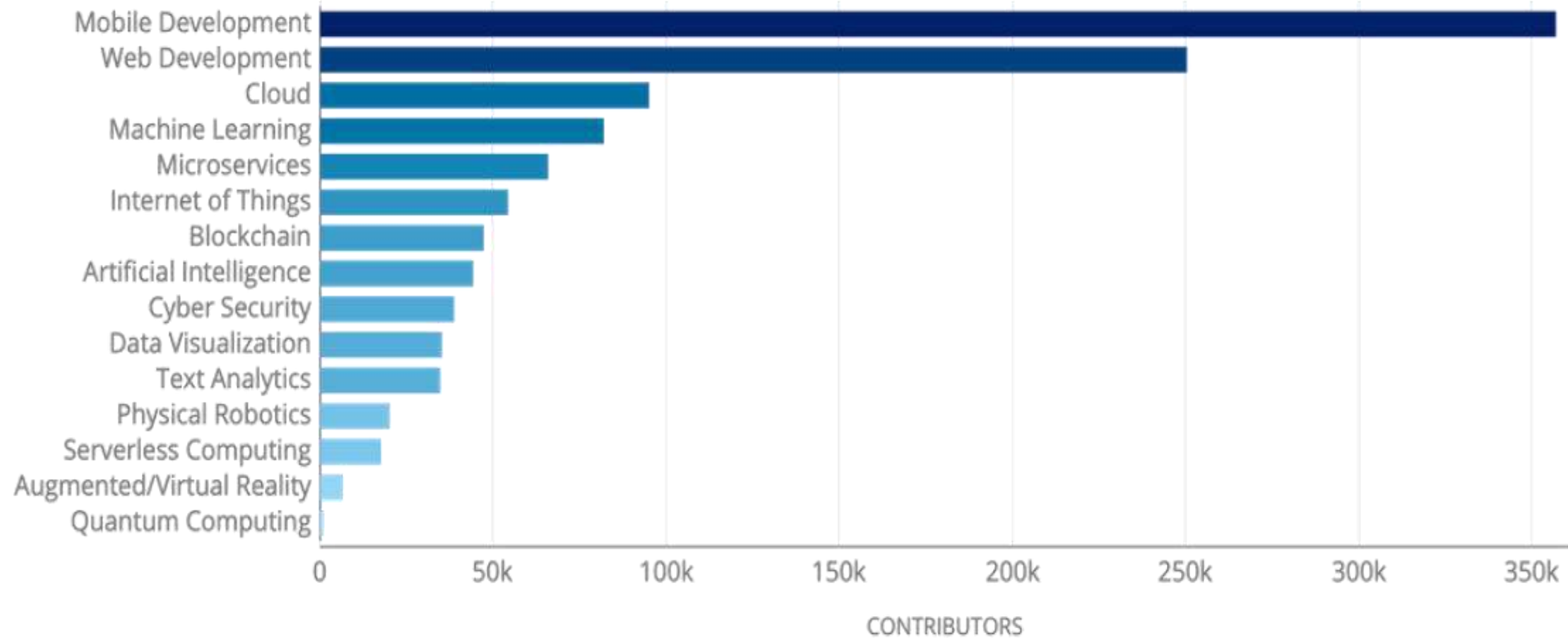
```
mono-github-github-g59jq2w5w7.github.dev
```

```
EXPLORER
  .github
  .devcontainer
    build-devcontainer.sh
    devcontainer.json
    on-create-command.sh
    post-attach-command.sh
    setup-devcontainer.sh
    ssh
    welcome_message.txt
  app
    api
    assets
    components
    controllers
    helpers
    jobs
    mailers
    models
      archived.rb
      emotion.rb
      interaction.rb
```

```
emotion.rb
73 attr_reader :label
74
75 attr_reader :pronounceable_label
76
77 # Public: Get the Emoji that this reaction's content represents.
78 #
79 # Returns an Emoji.
80
81 attr_reader :emoji_character
82
83 def initialize(content:, label: nil, pronounceable_label: nil, emoji_character: nil)
84   @content = content
85   @label = label || @content
86   @pronounceable_label = pronounceable_label || @label
87   @emoji_character = emoji_character || Emoji.find_by_alias(@content)
88   @platform_enum = @pronounceable_label.gsub(' ', '_').upcase
89 end
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[00:43:08] Starting 'watch-extension:vscode-api-tests'...
[00:43:08] Finished 'clean-extension:typescript-language-features' after 200 ms
[00:43:08] Starting 'watch-extension:typescript-language-features'...
[00:43:08] Finished 'clean-extension:php-language-features' after 304 ms
[00:43:08] Starting 'watch-extension:php-language-features'...
[00:43:08] Finished 'clean-extension:html-language-features-server' after 4166 s
[00:43:08] Starting 'watch-extension:html-language-features-server'...
[00:43:08] Finished 'clean-client' after 7.33 s
[00:43:08] Starting 'watch-client'...
[00:43:08] monaco.d.ts: Starting monaco.d.ts generation
[00:43:08] monaco.d.ts: Finished monaco.d.ts generation
```

Ln 29, Col 7 Tab Size: 4 UTF-8 LF Ruby



OPEN SOURCE COMPASS

<https://opensourcecompass.io/domains>

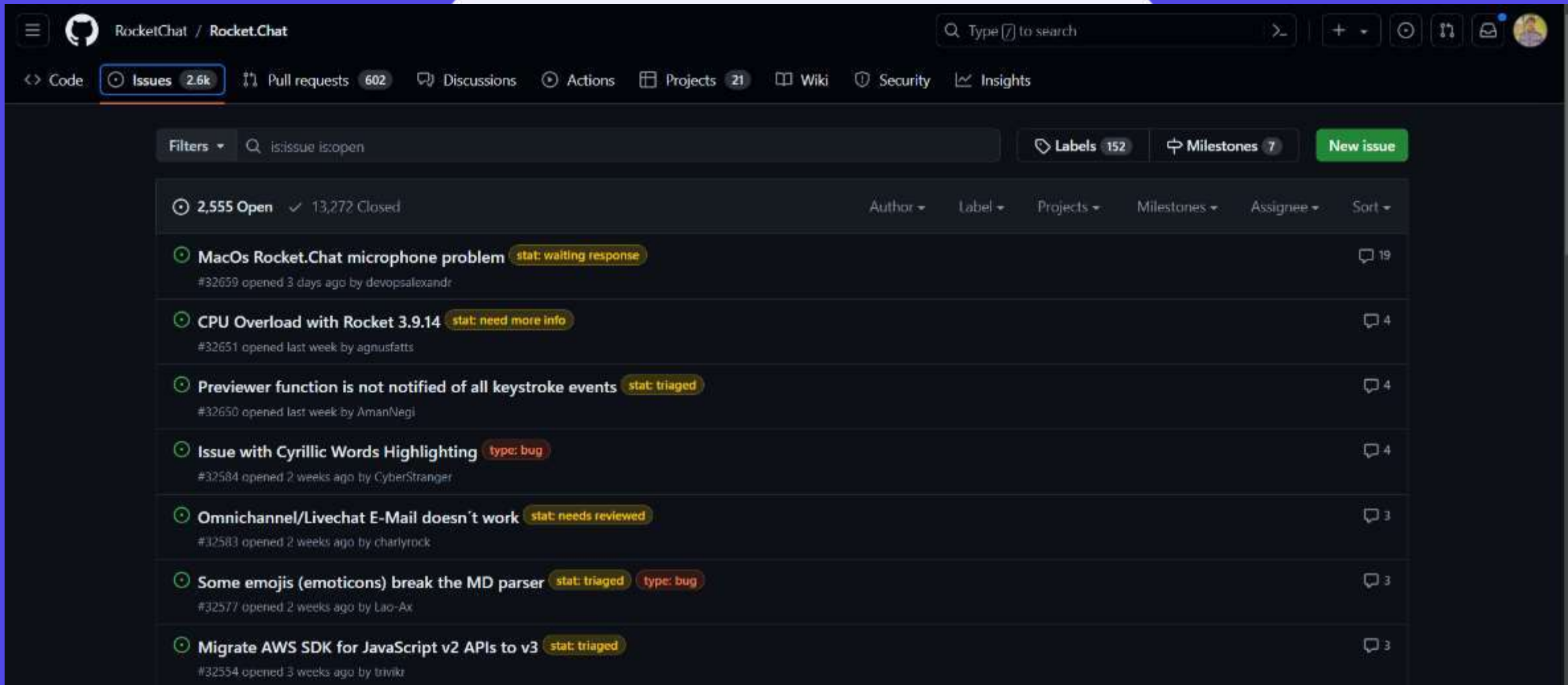
Deloitte.

High growth in no. of contributors

Examples of opensource projects :



contributions? Pr?



The screenshot displays the GitHub interface for the Rocket.Chat repository. The 'Issues' tab is selected, showing 2.6k issues. The page includes a search bar, filters, and a list of open issues. The issues are sorted by 'Sort' and include details such as title, status, type, and the number of comments.

Filters: is:issue is:open

Labels: 152 **Milestones:** 7 **New issue**

2,555 Open ✓ 13,272 Closed

Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

- MacOs Rocket.Chat microphone problem** **stat: waiting response** 19 comments
#32659 opened 3 days ago by devopsalexandr
- CPU Overload with Rocket 3.9.14** **stat: need more info** 4 comments
#32651 opened last week by agnusfatts
- Previewer function is not notified of all keystroke events** **stat: triaged** 4 comments
#32650 opened last week by AmanNagi
- Issue with Cyrillic Words Highlighting** **type: bug** 4 comments
#32584 opened 2 weeks ago by CyberStranger
- Omnichannel/Livechat E-Mail doesn't work** **stat: needs reviewed** 3 comments
#32583 opened 2 weeks ago by charlyrock
- Some emojis (emoticons) break the MD parser** **stat: triaged** **type: bug** 3 comments
#32577 opened 2 weeks ago by Lao-Ax
- Migrate AWS SDK for JavaScript v2 APIs to v3** **stat: triaged** 3 comments
#32554 opened 3 weeks ago by triviki

Opensource programs:

- 1:Google Summer of Code (GSoC) (2000 \$)
 - 2:Google Season of Docs (GSoD) (3000 - 6600 \$)
 - 3:Outreachy (7000 \$)
 - 4: MLH Fellowship (5000 \$)
 - 5: Hyperledger Mentorship Program
 - 6: GirlScript Summer of Code (GSSoC)
 - 7: Open Summer of Code
 - 8: Linux Kernel Mentorship Program
 - 9: Season of KDE
- AND MORE...

Gsoc 2025

- Accepted Orgs Announced - Feb 21
- Proposal Deadline - Apr 2
- Accepted Projects Announced - May 01
- Results - September 3



outreachy 2024

Important Round Dates	Mid-year Internships	End of year Internships
Call for mentoring communities opens	early January	early August
Initial applications open	early February	late August
Initial applications due	end of February	early September
Contribution period opens	mid March	early October
Contribution period ends	mid April	end of October
Interns announced	mid May	late November
Internships start	May	December
Internships end	August	March

Finding fit organization?

- Planning for placement or opensource program?
- How much time you have?
- Which project to work upon?
- How to start contributing?
- Do, setup project locally first.



Contributing?

- Finding issue?
 - Creating issue?
 - Creating pr?
 - Pr template?
 - Examples of a good pr?
-



Manging full time, freelancing & opensource?

- 3-4 hours week opensource work
- Create your own projects.
- Make good portfolio for freelancing.
- Freelancing projects are not regular.
- Focus on full time job it save lot of your pain points.
- Keep looking for remote or onsite internship opportunities.

Example Proposals:
EveryOne is a human with fears...

<https://shorturl.at/oIBQL>



Any Questions?

Connect on LinkedIn?



<https://www.linkedin.com/in/ali-hamza-0a139128a/>



<https://thealihamza.me>

Sign up 



Thank you.
