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SIES Graduate School of technology

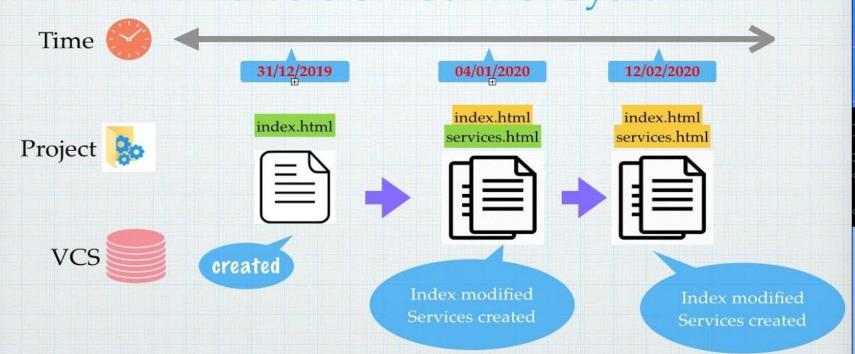
WHAT WE'LL BE LEARNING??

- Git & GitHub Recap
- Google Cloud
- 3 Amazing Projects to master cloud deployment
- Project 1- Build & Deploy your Resume Website
- Project 2- Build & Deploy Meme
- Project 3- Build & Deploy Full Stack Website



IN COLLABORATION WITH CLOUD, CYBERSECURITY AND OPEN SOURCE TEAM

What is Version Control System?



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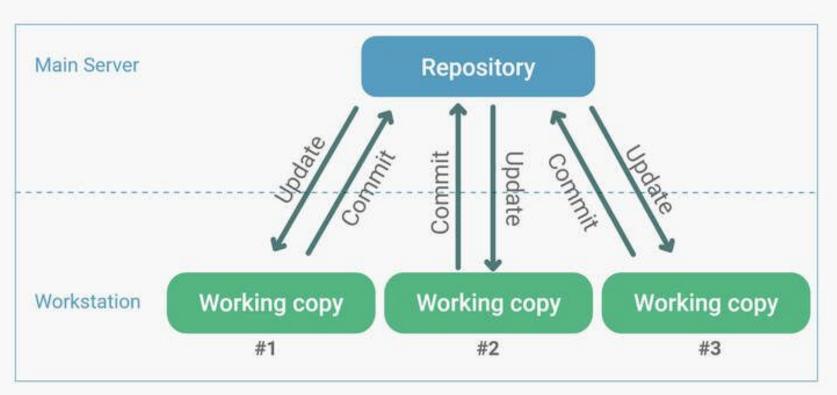
Version Control – GIT





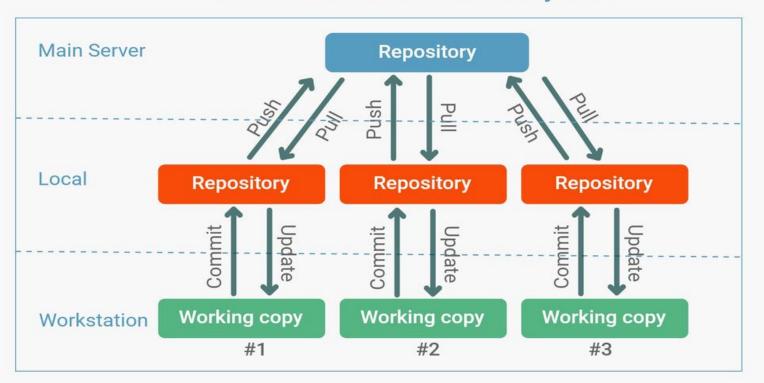
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Central Version Control System



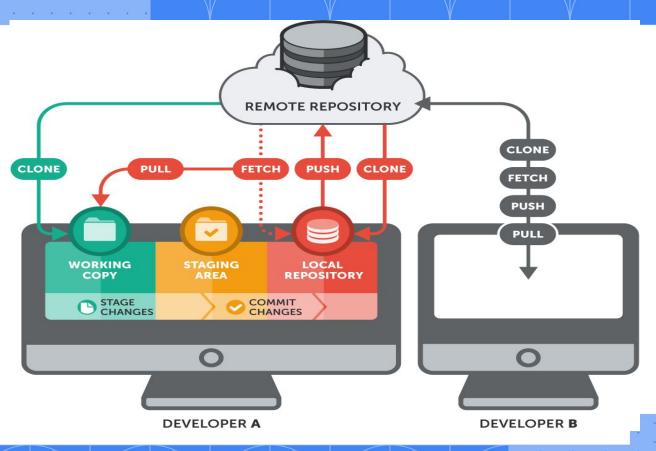
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Distributed Version Control System



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DVCS WITH REAL LIFE SCENARIO



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WHAT IS GIT?



Git is a free and open source distributed version control system.

- Track changes
- History Backup 'snapshot'
- Collaborative development
- Parallel Development

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Key terminologies in GIT



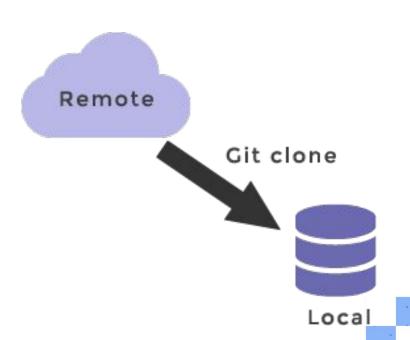
Repository (Repo):



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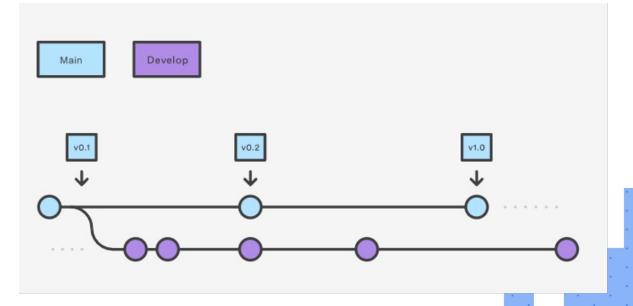
Clone:



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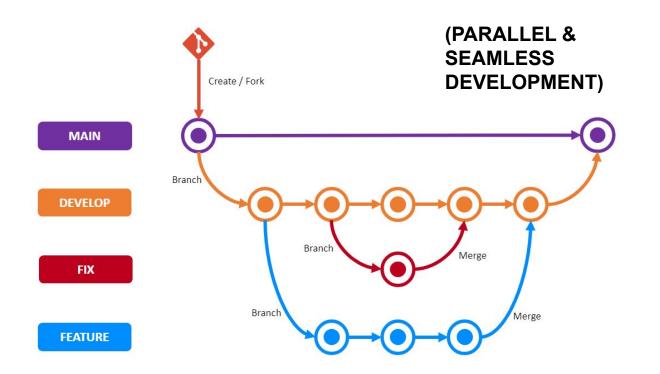


BRANCH:



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MERGE CONCEPT (BRANCH WORKFLOW)

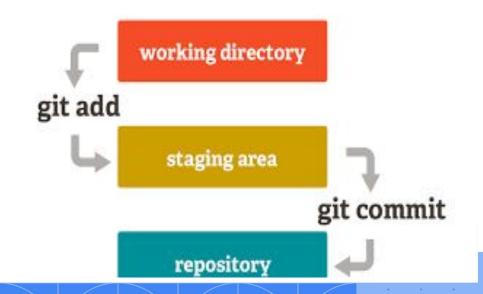


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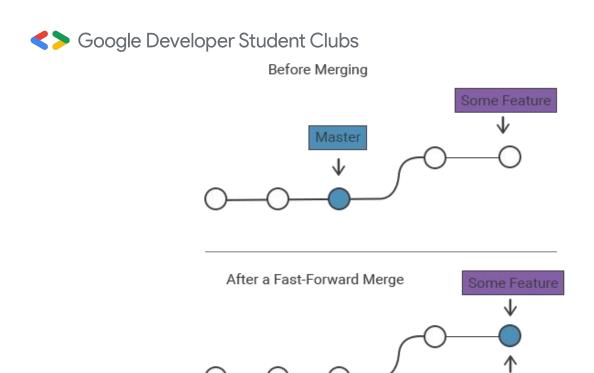
ADD & COMMIT:



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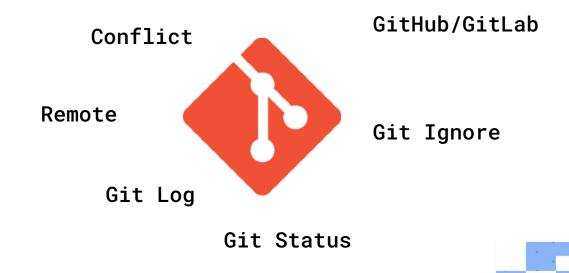
TYPE OF MERGE- FAST FWD MERGE

Master



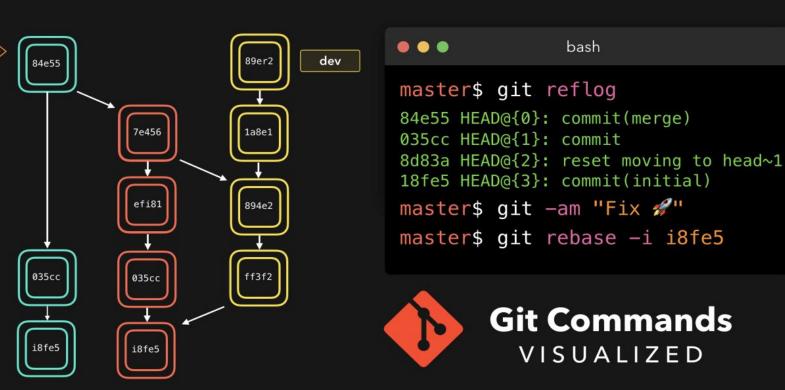
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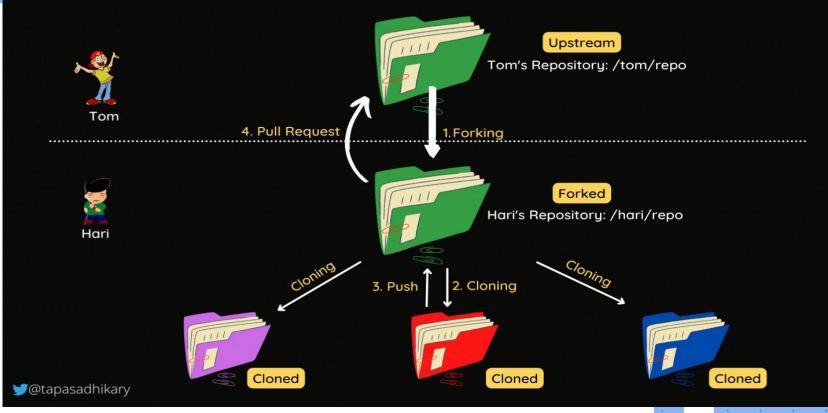
LET'S DO SOME HANDS-ON!!!



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PUSH, PR, CLONE V/S FORK



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Let's Learn About GitHub

Google Developer Student Clubs



INTRODUCTION TO GITHUB

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Setup





Account



Google Developer Student Clubs



elon Frontend developer



lives in America



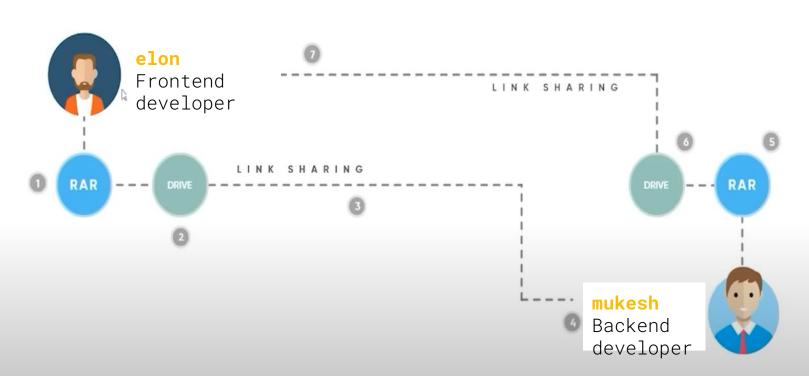




lives in India

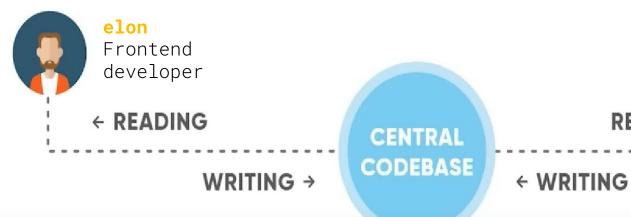
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READING →

mukesh Backend developer



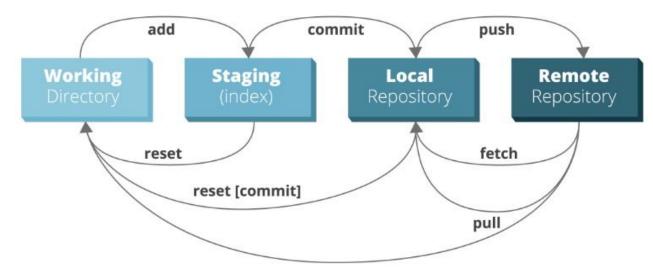
Management of Code with GitHub



Management of Code without **GitHub**







Push and Pull workflow diagram

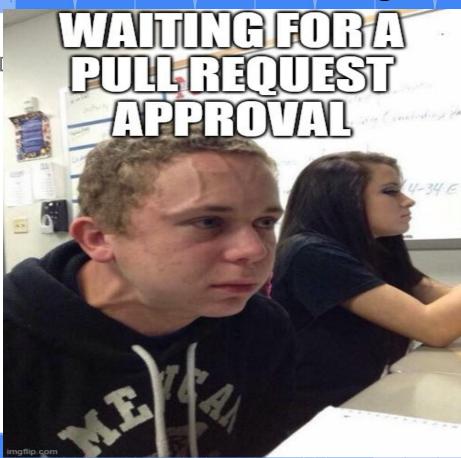


ORIGIN MASTER-F

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Hassle of a PR being accepted





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Git



Git is installed and maintained on your local system (rather than in the cloud)



First developed in 2005



One thing that really sets Git apart is its branching model

Git is a high quality version control system

GitHub

GitHub is designed as a Git repository hosting service



You can share your code with others, giving them the power to make revisions or edits



GitHub is exclusively cloud-based



GitHub is a cloud-based hosting service

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FEATURES OF GitHub (Open GltHub)

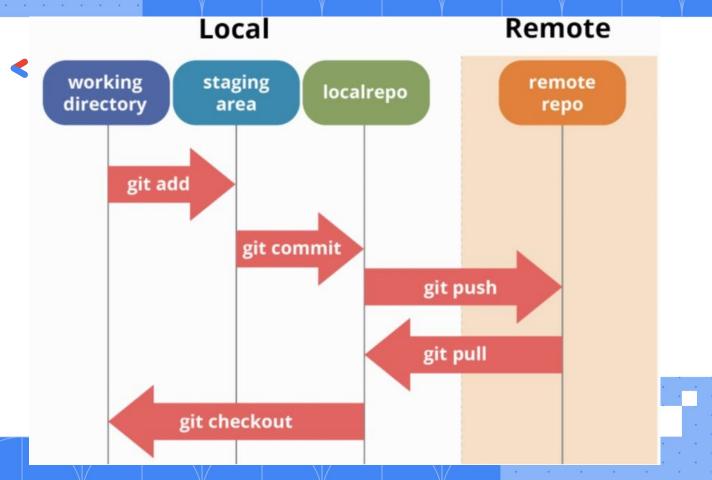


Code Review and Collaboration

- Pull Requests
- Issue Tracking
- Discussions
- Traffic Analytics
- GitHub Wiki
- Actions Marketplace
- GitHub API

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GIT & GITHUB WORKFLOW



LET'S DO SOME HANDS-ON!!!

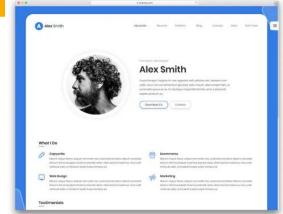


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BUILD & DEPLOY YOUR OWN MEME GAME RIDE SHARING APP ON CLOUD



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Solution Student Clubs

WorkFlow Plan

PART 1

Build a static website on S3

Free to a few cents





ChatGPT

PART 2

Make it work with a custom domain name

Domain name: \$10+

Hosted zone: 50 cents per month

Queries: 40 cents per million





Route 53

PART 3

Incorporate CloudFront and SSL/HTTPS

ACM Certificates: Free

CloudFront: Free+, depending on how many requests are made



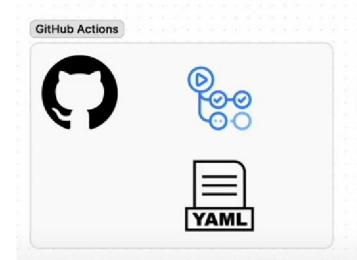




Route 53



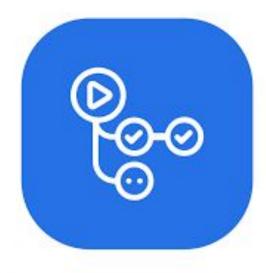
WorkFlow Plan





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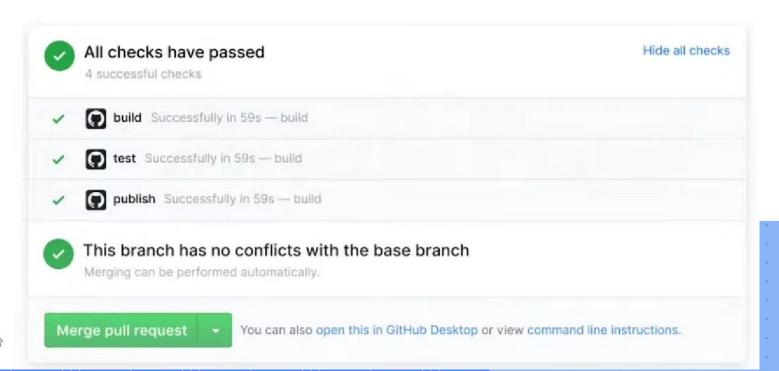
Google Developer Student Clubs



GitHub Actions

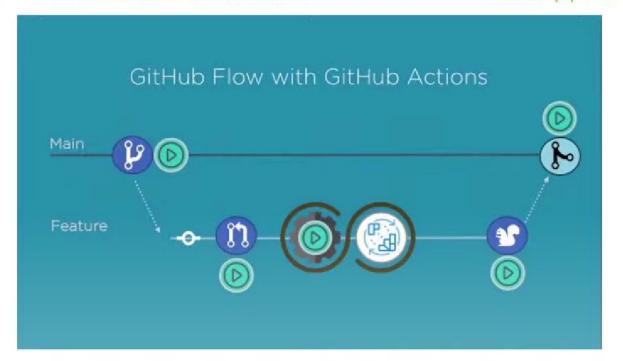
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It is fully integrated into GitHub



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You can do automations with GitHub Actions or even build a CI/CD pipeline





You can create your own GitHub Actions or use a prebuilt one at any stage in your GitHub workflow

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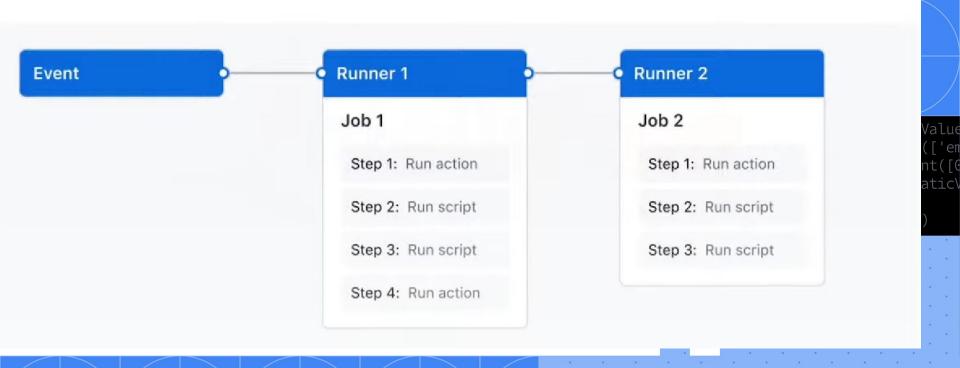


HOW WORK FLOWS ARE AUTOMATED?

When something happens IN or TO your repository; you can configure automatic ACTIONS that are executed in response lookup.KeyValuef.constant(['em =tf.constant([6 .lookup.Static\ buckets=5)

WHAT EXACTLY IS A WORKFLOW?

Actions in a particular order constitute a workflow. This workflow can be triggered after an event occurs in GitHub.



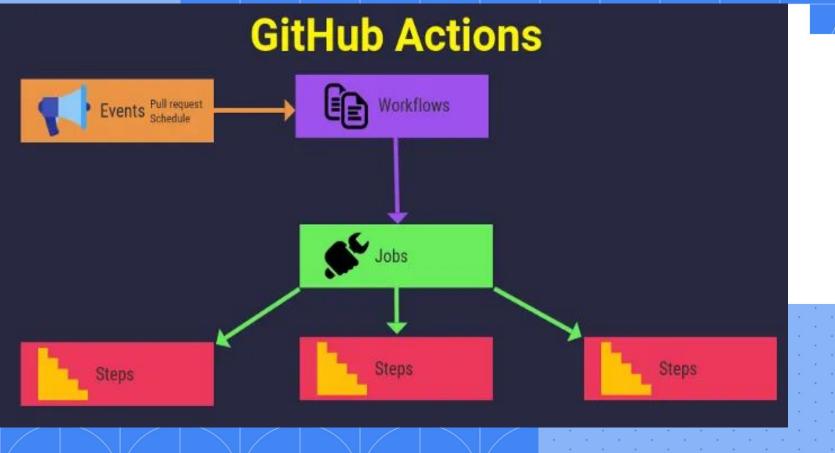
HOW TO WRITE A WORKFLOW?

This is done by a YAML script. This is a scripting language that follows a certain syntax. A workflow YAML file will contain the follows parts to it:

Events, Jobs, Runners, Steps and Actions

```
name: Super-Linter
on: push
jobs:
  super-lint:
   name: Lint code base
    runs-on: ubuntu-latest
    steps:
      - name: Checkout code
        uses: actions/checkout@v2
      - name: Super-Linter
        uses: github/super-linter@v4.9.5
        env:
```

Value :(['en :nt([@ :atic\



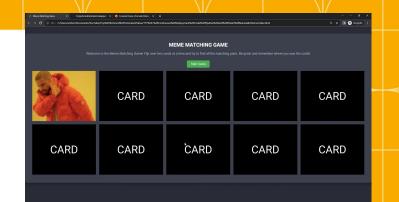
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Lets do some Hands-on to build our Resume Project







BUILD & DEPLOY MEME GAME ON CLOUD

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Lets do some Hands-on to RIDE SHARING APP ON CLOUD





BUILD & DEPLOY FULL STACK APP ON CLOUD

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Google Developer Student Clubs

Services We'll be Using





Identity & Access Management (IAM)



AWS Amplify



Amazon Cognito



Lambda



Amazon **API** Gateway



Amazon DynamoDB

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MEET YOU AT THE NEXT SESSION WITH THE SAME ENTHUSIASM!!

THANK YOU FOR JOINING:)

