

SOLUTION DOCUMENT



▶ Maniac Team

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TECH STACK



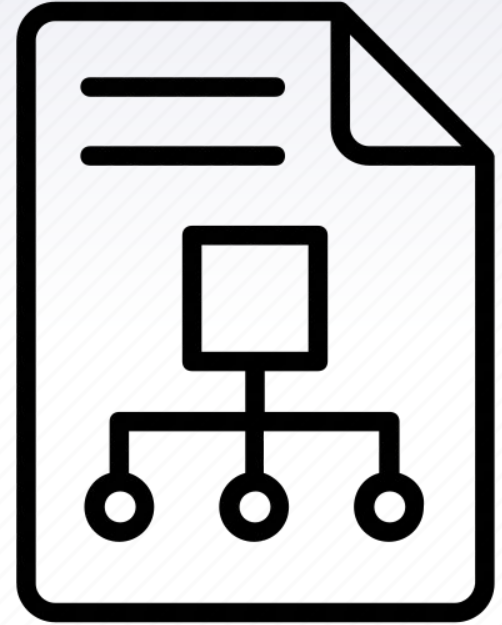
Technology

- ▶ Python
 - ▶ Dependencies
- ▶ AWS
 - ▶ AWS API Gateway
 - ▶ AWS Secrets Manager
 - ▶ AWS Lambda
 - ▶ AWS Relational Database Service (RDS)



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FLOW OF THE PROJECT



Input To The API

- ▶ Firstly the user will enter his/her Input
 - ▷ Repository Name
 - ▷ Date range
- ▶ Example
 - ▷ Repository Name - hashicorp/consul
 - ▷ Here **hashicorp** is the username
 - ▷ Whereas **consul** is the repository name
 - ▷ Date range - 2019-12-01 - 2019-12-31
 - ▷ Here **2019-12-01** is the start date, while **2019-12-31** is the end between which the search has to be done from



Output From The API

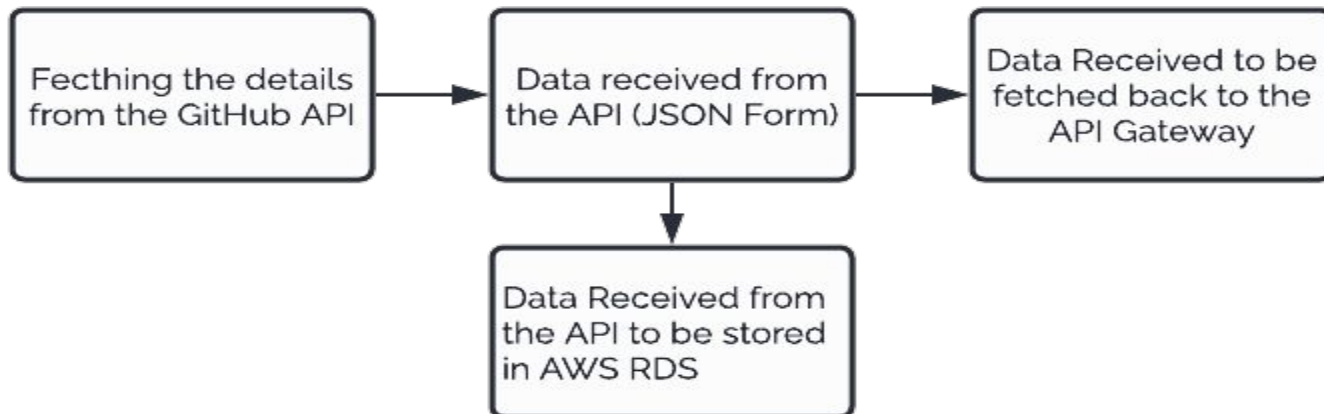
- ▶ Here the User will be shown the output in the JSON Format
 - ▷ Company domain name
 - ▷ Total number of commits
 - ▷ Total number of contributors
- ▶ Example
 - ▷ Sample output will be as follows consisting of company name, total number of commits and total number of unique contributors

```
{  
  "microsoft": { total_contributions: 50, unique_contributors: 10 },  
  "hashicorp": { total_contributions: 15, unique_contributors: 12 },  
  "gmail": { total_contributions: 50, unique_contributors: 11 },  
  "cloudflare": { total_contributions: 52, unique_contributors: 10 }  
}
```



AWS API Gateway

- ▶ API Gateway will provide our project with high scalability and availability
- ▶ Main working starts from here.
- ▶ Here we will be working with AWS RDS Instance, AWS Lambda Function, AWS Secret Manager as well as upon the API Gateway as well.



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STATUS CODES



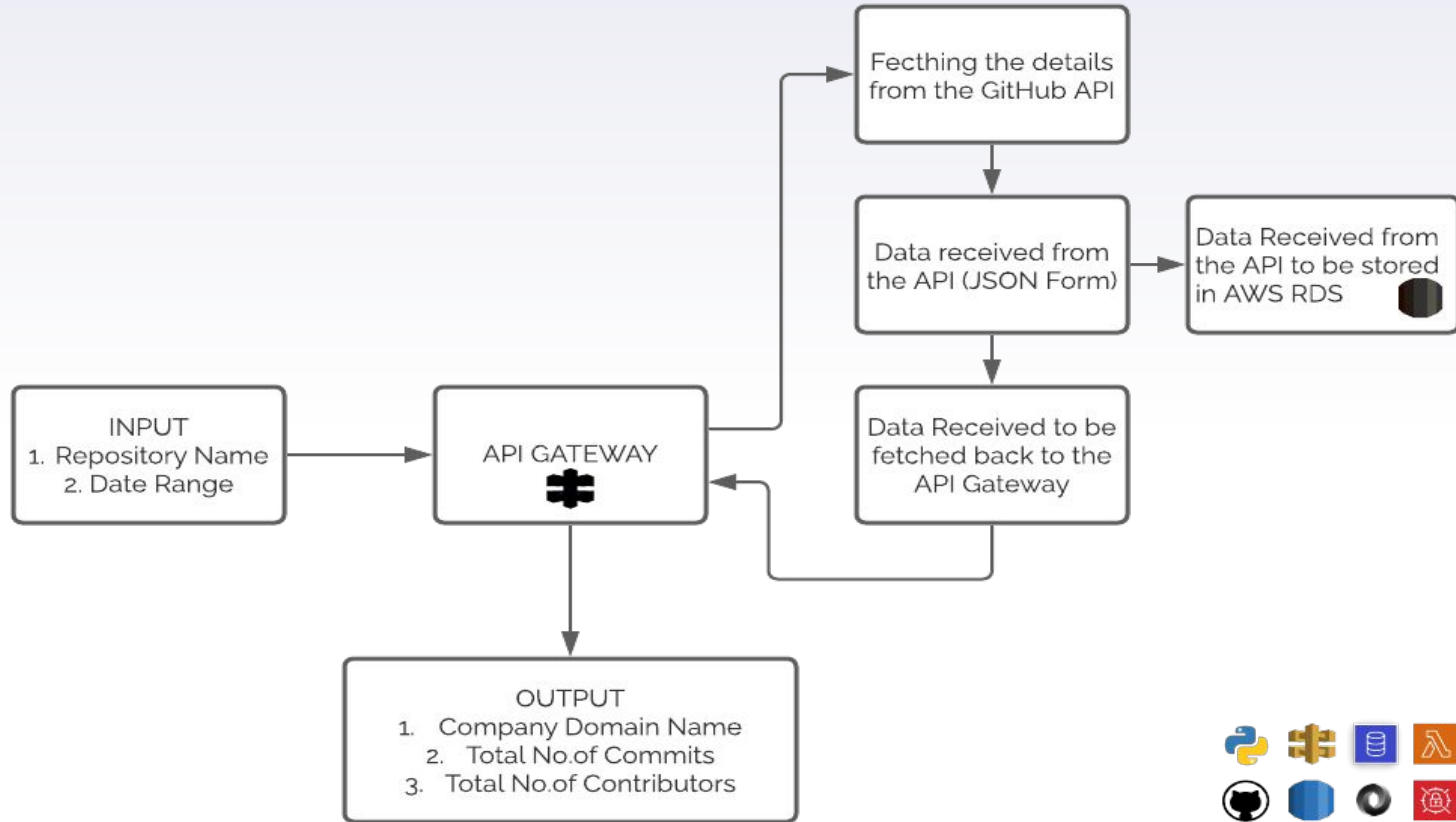
► Status Codes

- ▶ 200 OK will be shown for the requests which have been successfully fetched.
- ▶ 400 Bad Request will be shown in cases when there is any issues from the client side like wrong syntax or invalid framing of the requests.
- ▶ 404 Not Found will be shown for the requests which server cannot find.



BLOCK DIAGRAM





Dates & Milestones

Tasks	Date
Interacting with Python and Github	04 07 2021- 05 07 2021
Processing the Json data received from the API	06 07 2021- 07 07 2021
Fetching the processed data back to user	08 07 2021- 09 07 2021
Starting with AWS RDS Instance	11 07 2021- 13 07 2021
Working upon the Lambda Function	14 07 2021- 16 07 2021
Testing on how to store data to AWS RDS	18 07 2021- 20 07 2021
Testing the API Gateway	21 07 2021- 23 07 2021
Resolving errors if any found	25 07 2021- 27 07 2021



Weekly Planner

	WEEK 01 26/06/2021	WEEK 02 03/07/2021	WEEK 03 10/07/2021	WEEK 04 17/07/2021	WEEK 05 24/07/2021	WEEK 06 31/07/2021
BRD	DONE					
Solution Document Environment Setup		DONE				
Development Milestone-1						
Development Milestone-2						
Develop Demo the increment, Test Milestone - 3						
Develop Final Demo Test Results User Acceptance Document						



THANKS!

Any questions?

Link -

<https://github.com/Hanesh-Jogani/GitHub-Contributor-Aggregator>

