GitHub Contributor Aggregator

# Business Requirement Document

**Project Definition**

* Create an API Service to fetch the details of the contributors of user-specified GitHubrepositories.
* The repository name is to be passed as a parameter to the API and fetch the details of that repository.

# Stake Holders

* + Mr. Deepak Mishra
  + Mr. Dinesh Behera

# Project Scope

* By creating an API which shows the details of the GitHub repository by providing the repository name will make searching for particular repository and its details much easierand time saving.
* An analysis can easily be made using the data fetched from the GitHub API

# Technology stack

* Create API in AWS environment
* Include Authentication via session token and using AWS secret manager
* Data will be stored in AWS Relational Database Service SQL server instance
* API to be used is GitHub API
* For user interface Tkinter will be used
* Deployment: - AWS, Python

# Non-Technical Requirement

* Business Requirement Document
* Solution document
* Design review
* Working demo of product

# Input

Input to be given is the Repository Name and the Date Range within which the output is needed.

# Output

Output displayed is Company domain name, Total contributors, Unique contributors, Date range

Example:

{

"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 }

}