

GitHub Contributor Aggregator

Business Requirement Document

Project Definition

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

Stake Holders

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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 easier and 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 }
}
```