

Objective:

Create a GitHub API integration system to fetch and display relevant metrics on a React UI with Material UI components.

Instructions:

1. GitHub Repository Setup:
 - Create a new / Use an existing repository on GitHub.
 - Populate the repository with dummy data involving at least 2 contributors.
 - Each contributor should have different line changes, file changes, and pull requests (PRs) raised, reviewed, and merged.
2. Backend API (Python):
 - Build a Python backend API that integrates with the GitHub API to retrieve relevant metrics.
 - Use a Python framework of your choice (e.g., Flask, Django).
 - Implement endpoints to fetch the following metrics:
 - Individual code contributions (line changes, file changes, PRs) for each member in the organization.
 - Number of PRs created by each individual.
 - Number of PRs reviewed by each individual.
3. Frontend (React with Material UI):
 - Create a React application using Material UI components.
 - Design a UI with the following components:
 - Table to display individual code contributions (line changes, file changes, PRs) for each member in the organization.
 - Pie chart to represent the distribution of PRs created by each individual.
 - Pie chart to represent the distribution of PRs reviewed by each individual.

Submission:

- Share the link to your GitHub repository containing the code.
- Share screenshots to your working code.
- Include any additional documentation deemed necessary.

For any queries or assistance during the assignment, please feel free to reach out to naseem@stratgeek.com with Subject `Assignment Assistance`

Please do refer to the screenshot below for a better idea.

Individual Code Contributions

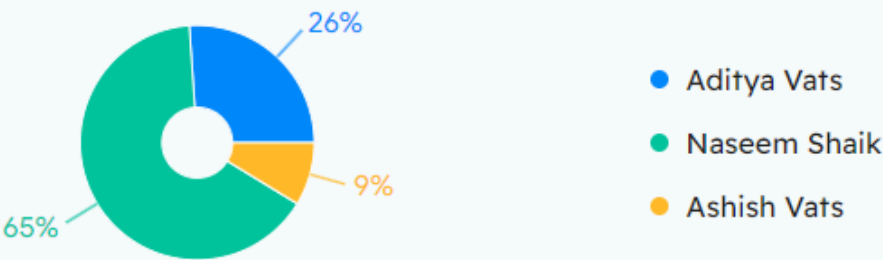
Team	No. of Line contributions	No. of File contributions	PRs merged
Naseem	800	12	2
Surya	500	7	4

PR Creation Breakdown



**Above percentages illustrate each person's contribution to PR creation.*

PR Review Breakdown



**Above percentages illustrate each person's contribution to PR Reviews.*