

EXPERIMENT 7

Screenshots

PUT

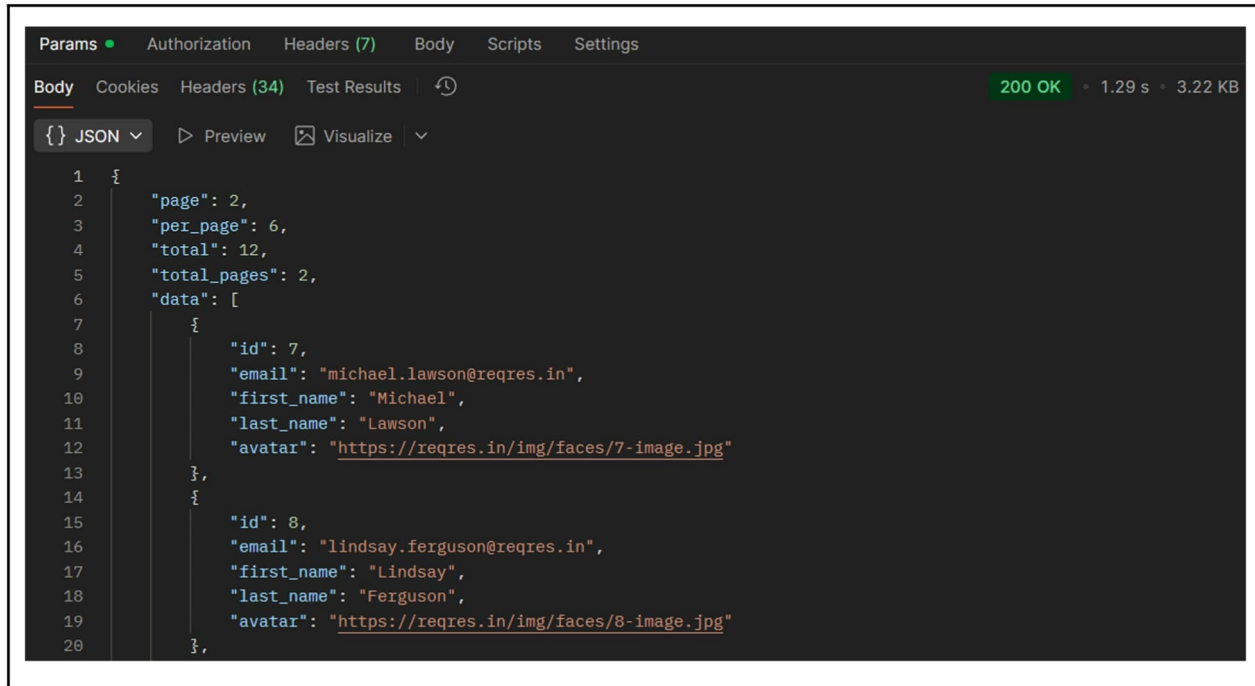


Fig 4.1



Fig 4.2

```

48     },
49   ],
50   "support": {
51     "url": "https://contentcaddy.io?utm_source=reqres&utm_medium=json&utm_campaign=referral",
52     "text": "Tired of writing endless social media content? Let Content Caddy generate it for you."
53   },
54   "_meta": {
55     "powered_by": "🚀 ReqRes - Deploy backends in 30 seconds",
56     "upgrade_url": "https://app.reqres.in/upgrade",
57     "docs_url": "https://reqres.in",
58     "template_gallery": "https://app.reqres.in/templates",
59     "message": "This API is powered by ReqRes. Deploy your own backend in 30 seconds!",
60     "features": [
61       "30 Second Backend Templates",
62       "Custom API Endpoints",
63       "Data Persistence",
64       "Real-time Analytics"
65     ],
66     "upgrade_cta": "Upgrade to Pro for unlimited requests, custom endpoints, and data persistence"
67   }
68 }

```

Fig 4.3

POST

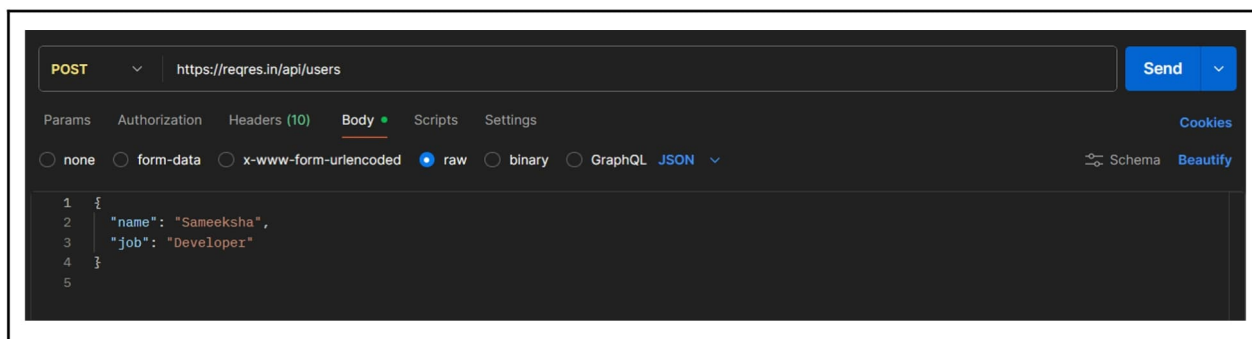


Fig 4.4



Fig 4.5

PUT

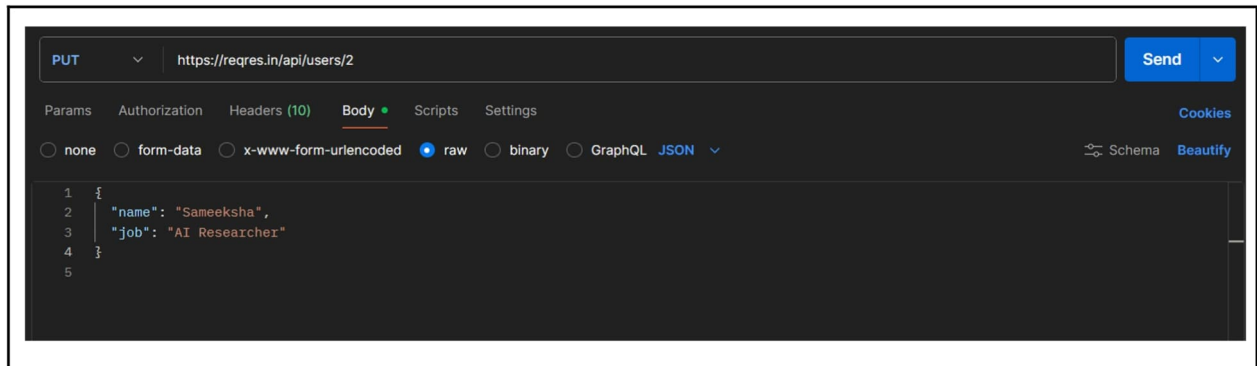


Fig 4.6

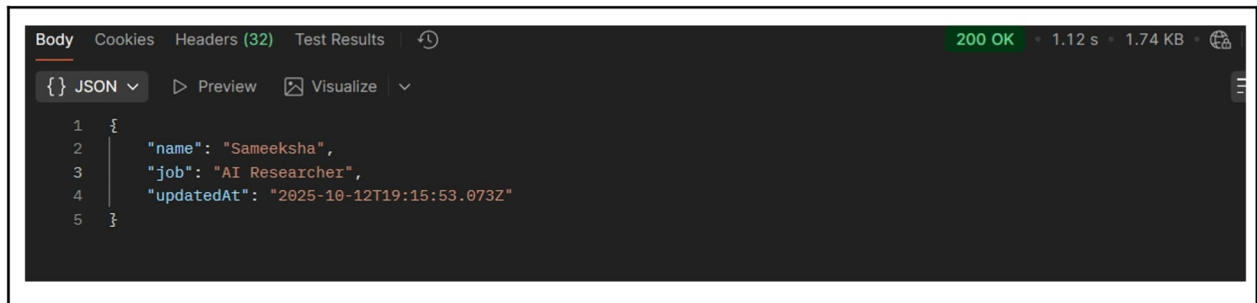


Fig 4.7

DELETE



Fig 4.8



Fig 4.9

Automated Testing



Fig 4.10

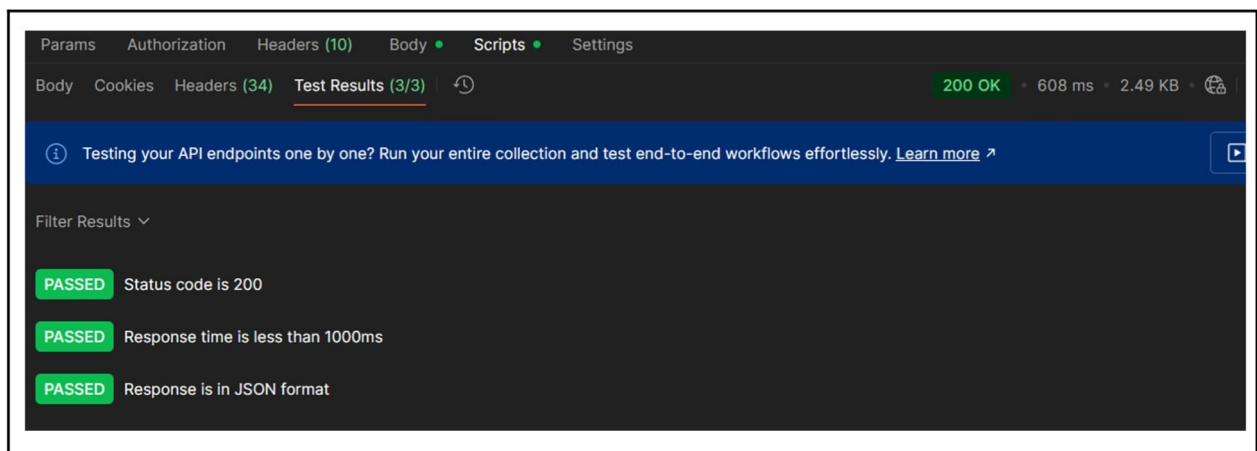


Fig 4.11

Visualizing in table form

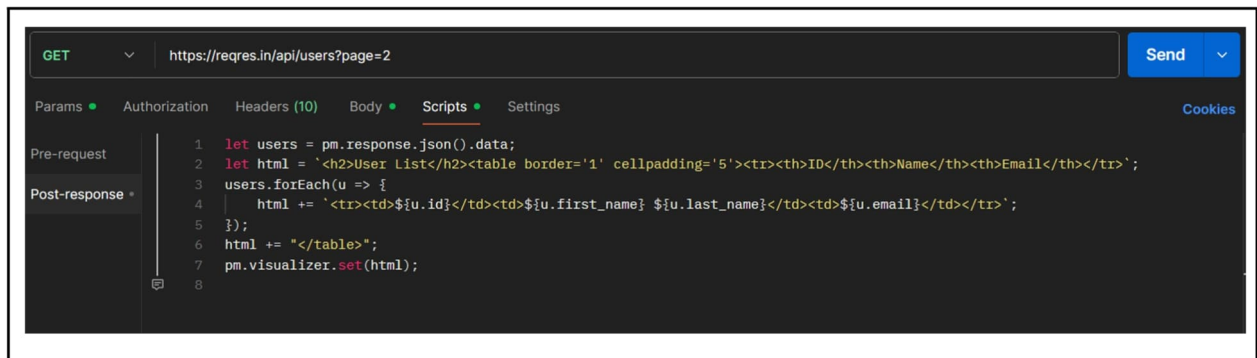


Fig 4.12

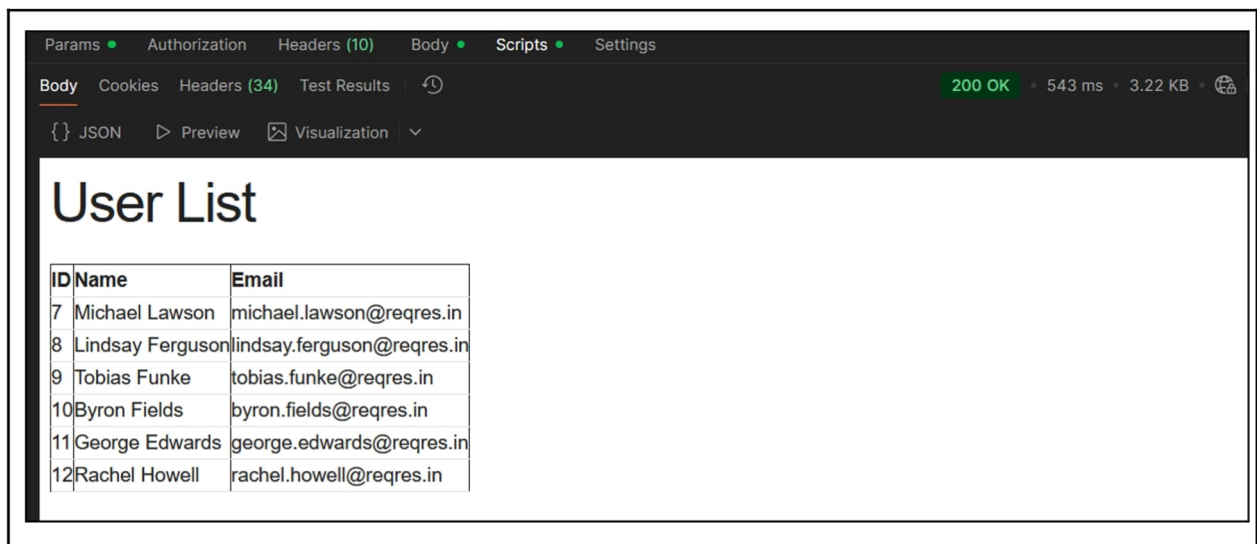


Fig 4.13

Visualizing in the form of chart

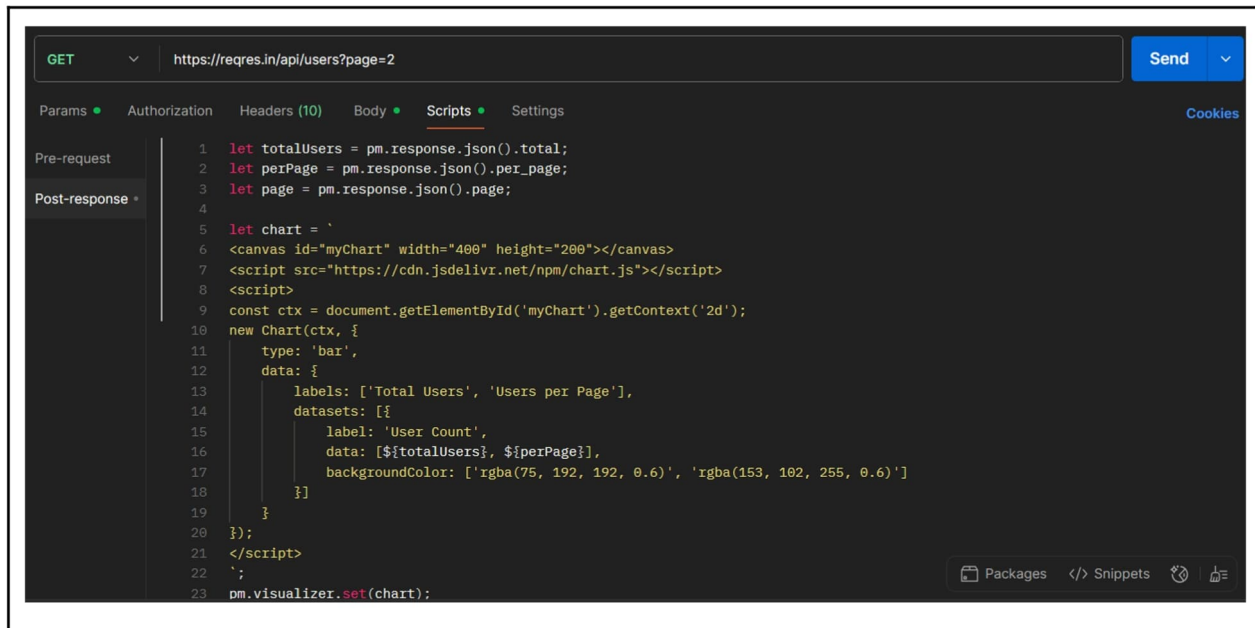


Fig 4.14

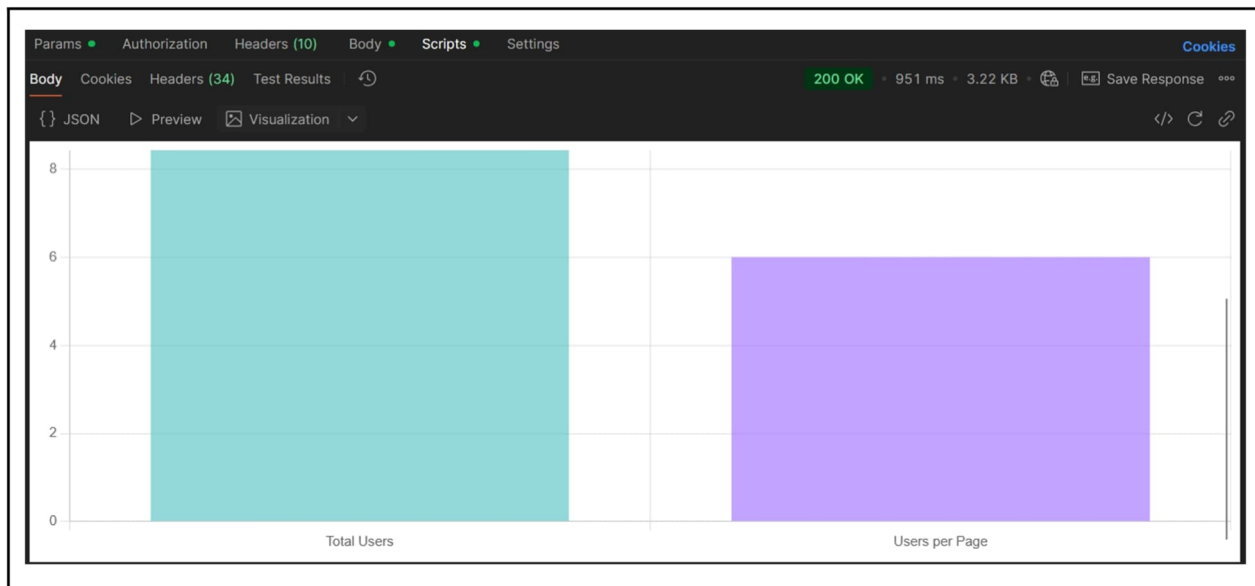


Fig 4.15

30% EXTRA CONTRIBUTION

A. Automated Tests

In addition to validating the API manually, automated tests were implemented in Postman to programmatically verify responses. These tests check the HTTP status codes, ensure the response is in JSON format, and verify that critical fields exist in the response body. This approach reduces manual effort, ensures consistency across multiple requests, and allows immediate identification of any API failures.

B. Response Visualization in Table Format

To make the API response more readable and visually appealing, the user data retrieved from the API was displayed in a table format within Postman's Visualize tab. This feature presents information such as user ID, name, and email in a structured tabular layout. The table makes it easier to interpret large datasets at a glance, enhancing the clarity and accessibility of the results.

C. Response Visualization in Chart Format

Beyond tables, a bar chart was implemented to represent key metrics from the API response, such as the total number of users and the number of users per page. This graphical representation provides an intuitive understanding of the data distribution and trends, making the experiment more interactive and visually engaging. It also demonstrates how API data can be summarized and analyzed visually for better insights.