**Performance Testing Phase**

**API Testing/Performance**

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| Date | 18 April 2025 |
| Team ID | SWTID1743603827 |
| Project Name | Book - Store |
| Maximum Marks | 2 Marks |

In the performance testing phase of a MERN stack project, Postman is used to simulate API calls and evaluate how the backend handles various loads and response times. This involves testing key API endpoints (such as user registration, login, and data retrieval) under different conditions to ensure stability, speed, and reliability.

Using Postman’s built-in tools like Collection Runner and Monitor, we can automate repetitive requests, test with multiple data sets, and measure response times to identify bottlenecks in the Express.js backend or delays in MongoDB queries. This helps optimize server performance and ensures the application can handle real-world usage smoothly.

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| **API Type** | **API Endpoint** | **Status Code** | **Response Time**  **(ms)** |
| Category | /api/v1/category/get-category | 304 | 51.753 |
| Product | /api/v1/product/product-list/1 | 304 | 46.899 |
| Product Img | /api/v1/product/productphoto/67f93a1537dabe8278f60a34 | 304 | 45.206 |
| Payment | /api/v1/product/braintree/token | 200 | 1355.800 |
| Auth | /api/v1/auth/user-auth | 304 | 25.447 |