**Individual Contribution Report**

**Nayituriki Patrick**

My main responsibility was the **database design and backend API development**. I created the database schema using MySQL and implemented the core backend logic using Node.js and Express.js. I developed APIs to handle quiz creation, retrieval, and submission functionalities. I ensured that the database structure aligned with the application requirements, and maintained data integrity across all modules.

Additionally, I collaborated with the frontend and authentication teams to ensure smooth integration of backend services. I also assisted in troubleshooting data-related issues and improving API performance.

**Shaday Sine**

I was responsible for the **frontend UI/UX design** and the **implementation of React components**. I designed and developed the main user interface, including the homepage, quiz screens, and user dashboard. I used React and React Router to create an intuitive and responsive experience for users.

I ensured the frontend was visually appealing and functionally aligned with the backend. I also supported the team during integration by testing how components interacted with APIs and helped debug issues in the user interface.

**Nubuhoro Divine**

My contribution focused on **user authentication, user management, and API security**. I implemented secure login and registration functionality using JWT-based authentication. I also managed user sessions, enforced access control, and protected sensitive routes within the application.

Furthermore, I worked on securing the backend APIs by applying middleware and validating user inputs. I conducted tests to ensure that only authenticated users could access restricted resources and collaborated with the team to improve security practices.

**Umutoni Amelie**

I led the development of the **queue system integration**, handled the **deployment**, and conducted **system testing**. I integrated a queue (using Redis or a custom logic) to manage quiz submissions asynchronously, ensuring the platform could handle multiple users simultaneously without performance issues.

I was also responsible for deploying the application to a production-like environment and performing end-to-end testing to ensure the system operated smoothly. I contributed to the final documentation and helped resolve bugs found during the testing phase.