**Methodology**

In the development of our education platform for secondary school students in Malawi, we will embrace an agile development approach to enhance our project's flexibility and responsiveness. Agile development involves iterative and incremental progress, enabling us to adapt to changing requirements and feedback from stakeholders. Key element of our agile framework is continuous stakeholder engagement. This approach ensures that we remain aligned with the evolving needs of teachers, students, and other stakeholders throughout the project.

To ensure that our platform is user-centric and caters to the specific needs and preferences of teachers and students, we will prioritize user-centered design principles. Our user-centered design process includes comprehensive user research through interviews, surveys, and usability testing to gain insights into the unique challenges faced within the Malawian education system. Interactive prototypes and usability testing will aid in identifying and addressing usability issues, and we will continuously refine the user interface and experience based on feedback.

Our chosen technology stack aligns with the project's goals and requirements. Front-end development will utilize HTML, CSS, and JavaScript to create responsive and engaging user interfaces. For the back end, we will employ Flask, a Python micro-framework, to build services responsible for data management, authentication, and communication with the front end. MySQL will serve as our relational database system for structured data storage. Additionally, we will integrate use TensorFlow for machine learning models to track student performance and offer personalized suggestions for improvement.

In terms of system architecture, we will adopt a micro-services approach to create a modular and scalable system. This architecture involves decomposing various components, including content management, user management, chatbot functionality, and analytics, into separate microservices. Each microservice will feature well-defined APIs to facilitate easy integration with third-party tools and services.

**Timeline**