School of Computing

CA326 Year 3 Project Proposal Form

**SECTION A**

PROJECT TITLE: **GRINDS APP**

Student 1 Name: **Yann Ndjatang** ID Number: **18337813**

Student 2 Name: **Fawwaz Kekere-Ekun** ID Number: **18408814**

Staff Member Consulted: **Michael Scriney**

**SECTION B**

**DESCRIPTION:**

The Application

A web app to provide a platform for grinds tutors and students of Junior certificate/Leaving certificate looking for grinds. The aim of this platform is for students of JC/LC level in need of extra academic aid in specific subjects such as Maths, to be able to find a grinds tutor that will help them obtain their desired grade.

The platform will enable both Student and Tutors to log in and from here they will be able to access different aspects of the app.

The Tutor

Tutors in particular will have the ability to advertise their services on the platform. When a student is first accepted by a tutor, our app will be able to give the ability to the tutor to create a skill gap identification quiz. Once the quiz is completed by the student, our app will analyse the data and present a graphical representation of the skills of the student. This will allow the tutor to create a personalised plan for the student based on the analytics given by our app. From here on the tutor will be able to give out assignments on the platform and also set up face-to-face meetings via zoom to give an enhanced learning experience for the student.

The Student

Students will be able to search the platform to find tutors who would be able to help them in their desired subject. They would then apply to be taught by the tutors that are available. Students will then have to complete a test that will help the tutor create a personalised plan for them to follow. From here on the students will be able to chat with the lecturer regularly through a chat box, complete assignments given to them by their tutor and also attend face-to-face meetings arranged by their tutor using the Zoom API.

**DIVISION OF WORK:**

Research

Quiz builder for skill gap identification: Fawwaz

Cluster analysis & basket analysis: Yann

User Interface

Look into the possible implementation of JS: Fawwaz

UI design: Yann

Functional Specification – based on IEEE standards

Yann Ndjatang Introduction, general description, functional requirements

Fawwaz Kekere-Ekun: functional requirements, High level design, schedule/appendix

User Manuel

Yann & Fawwaz

Development

Pair Programming method

**PROGRAMMING LANGUAGES**

Python, Django, HTML, CSS, Javascript, React, Node.js

**PROGRAMMING TOOLS**

Docker, Git, Pyunit for testing , JEST for front end testing, Gitlab Projects

**LEARNING CHALLENGES**

Full stack development, data modelling, data visualisation

**HARDWARE/SOFTWARE PLATFORM**

Dockerised container

**SPECIAL HARDWARE/SOFTWARE REQUIREMENTS**

N/A