**Team Name:BotNet**

**Project Goal**

The primary goal of this project is to develop an AI-powered plagiarism detection tool that accurately analyzes and identifies copied content from various sources. This tool is designed to support students, educators, and content creators by ensuring the originality of their work. The project aims to achieve the following objectives:

* Implement a robust AI model to detect similarities between submitted texts and existing content.
* Develop an efficient algorithm to compare and process texts while minimizing false positives.
* Create an intuitive and user-friendly Flask-based web interface for seamless plagiarism checking.
* Generate detailed plagiarism reports with insights on matched sources and originality percentage.
* Ensure scalability and optimization for handling large volumes of text efficiently.

**Project User Stories**

| **User Story** | **Description** |
| --- | --- |
| As a user, I want to submit a text to check for plagiarism. | Implement a function that allows users to upload or input text for analysis. |
| As a user, I want to receive a detailed plagiarism report. | Develop a feature that provides structured insights on matched content and similarity percentage. |
| As a developer, I want the AI model to analyze text efficiently. | Train and integrate a deep learning model capable of detecting similarities with high accuracy. |
| As a user, I want a simple and interactive web interface. | Develop a Flask-based web platform that allows users to check plagiarism results easily. |
| As a developer, I want a scalable system for handling multiple plagiarism checks. | Optimize the system to process large amounts of data without performance issues. |

**Team Member Roles and Assigned Tasks**

| **Team Member** | **Role & Assigned Tasks** |
| --- | --- |
| Gabbasov Batyrgali | Developer - Implement AI model, train and fine-tune the plagiarism detection algorithm. |
| Sherinbet Zhantore | Developer - Integrate AI model with backend, handle API requests, and manage data processing. |
| Dosmakhanbet Arsen | Developer - Develop Flask web interface, design user-friendly UI for text input and results display. |
| Suleumanov Nurzat | Developer - Implement report generation, optimize formatting of plagiarism reports, and ensure accuracy of matched sources. |

**Proof of Concept**

Each team member will test their assigned tasks using a structured test-driven approach:

* **Gabbasov Batyrgali:** Validate AI model performance by testing on diverse datasets and improving accuracy.
* **Sherinbet Zhantore:** Verify seamless communication between the AI model and backend by handling API requests efficiently.
* **Dosmakhanbet Arsen:** Test user input functionalities and ensure the Flask web interface properly collects and processes text data.
* **Suleumanov Nurzat:** Ensure plagiarism reports are generated correctly, with clear formatting and structured insights.

**Using GitHub for Collaboration**

**GitHub Repository Link:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**a. Master Branch**

* The master branch contains the final, stable version of the project.
* All reviewed and tested features are merged here.
* Documentation and setup guides are included to assist future development.

**b. Feature Branches**

* Each team member creates a feature branch for their specific tasks.
* Regular commits ensure continuous progress tracking.
* Naming conventions for clarity: feature-ai-model, feature-api, feature-ui, feature-reports, etc.

**Final Deliverables**

**Presentation in Class**

Your presentation should include:

* **Project Overview**: Explanation of objectives, business value, and key features.
* **Feature Selection Justification**: The reasoning behind implementing specific functionalities.
* **GitHub Repository Details**: Structure, comments, and documentation for seamless future development.
* **Future Enhancements**: Planned features such as real-time plagiarism detection and multilingual support.
* **Reflection**: Challenges faced during development, solutions implemented, and key learnings from the project.

This structured document ensures all aspects of the project are well-defined, making it easier for the team to present and develop further. Let me know if any additional refinements are needed!