PROJECT PLAN DOCUMENT

Project number	**20**
Project Title	***Customized Learning Assessment Generation***
Document	Project Plan
Creation date	***31/01/2024***
Created By	***Archisha Panda (2022111019), Gargi Shroff (2022114009), Ankith Pai (2022113012), Prakhar Jain (2022115006)***
Client	***Arjun Rajasekar, RCTS IIIT Hyderabad***
Status Tracker	***Status Tracker Link***

Brief problem statement

- This application is intended to help the teachers assess students more effectively, by automating the task of assessment generation leveraging the power of LLMs.

- In addition to lightening the burden of teachers, this solution aims to make it easier to personalize assessment generation based on the context the teacher wants to inculcate into the subjects, to make it more engaging and useful to the students.

- These assessment questions can also be adjusted by the teacher, as the goal is not just to test student's memorization skills, but instead help in holistic and value-based learning.

- With this approach, a large dataset of assessments could be built and saved, giving a wide range of problems and ideas to apply.

Team Members

Member Names	Role in project
Ankith Pai	Document Creation, Database Management
Gargi Shroff	Parser, Web Design
Archisha Panda	Document Creation, Web Design,
Prakhar Jain	Database Management, Prompt Engineering

Team Communication

Our team plans to meet twice a week to discuss project details and keep everyone onboard updated with the latest progress. We use WhatsApp for online communication and have fixed a weekly meeting with the client every Wednesday or Friday (subject to change) at their office.

Development Environment

We plan to use the following tools during development of our project:

- MERN Stack
  - o MongoDB for database
  - o Express and NodeJS for API calls
  - o React for frontend
- Python
- Flask
- GitHub (as a git remote, for collaborating)

Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Create draft requirements	07/02/24	R1	No
Finalize requirements	14/02/24	R1	Yes
Implement initial backend API	15/02/24	R1	Yes
Making API calls to LLMs	17/02/24	R1	Yes
Basic UI design of the user input form (page 1), integration with backend	18/02/24	R1	Yes
Handle and parse LLM output	21/02/24	R1	Yes
Implement UI of generated questions output (page 2)	25/02/24	R1	Yes
Implement editability of page 2	06/03/24	R2	Yes
Allowing the users to upload reading materials, in the form of PDFs.	13/03/24	R2	Yes
Handle PDF by passing context to LLM	15/03/34	R2	Yes