

PROJECT PLAN DOCUMENT

Note: this is a “living document”, meaning its content will change with the implementation of the project. Use it to plan the project to ensure on time delivery of each project deliverable. Remove this text and the descriptive paragraphs in each section including this line (given in blue) stating what to do before you add this to your repository or turn it in to your instructor.

Project number	32
Project Title	<i>Teaching Assistance tools for English Language Learning</i>
Document	Project Plan
Creation date	<i>10 February 2022</i>
Created By	<i>Ayush Agrawal</i> <i>Polavarapu Neeraj</i> <i>Janapati Sai Akash</i> <i>Rahul Mallavarapu</i>
Client	<i>Arjun Rajasekar</i> <i>Chiranjeevi Yarra</i> <i>Koushik</i> <i>Kiran Debnath</i>

Brief problem statement

The developed app aims to help teachers in a classroom environment by providing them digital tools to conduct English classes. The app shall act as a learning assistance platform and interface for an existing speech evaluation API (voisTUTOR) that, evaluates the performance of the student speech under metrics such as pronunciation, intonation, pauses, etc.

Team Members

- Ayush Agrawal: The Frontend design, UI/UX, linking frontend and backend, analyzing data, interacting with the voisTutor API to evaluate audio
- Polavarpu Neeraj : The Frontend design, UI/UX, linking frontend and backend, Analyzing data, interacting with the voisTutor API to evaluate audio

- Sai Akash Janapati: Backend design and storage, providing api end points for frontend requests
- Rahul Mallavarpu: Backend design and storage, providing api end points for frontend requests

Team Communication

We meet every Thursday from 16:00 to 17:00, through Microsoft Teams and through emails when it is required

Development Environment

The Project Implementation can be highly divided into Frontend, Backend and Database Management.

1. For all development part, we use Visual Studio Code as our IDE.
2. Gitlab for version control and collaboration.
3. Frontend: We are using React JS as frontend framework and material UI for designing.
4. Backend: We are using NodeJS, express for backend part of development
5. For Storing and Managing data, we are using MongoDB

Milestone Schedule

Milestone	Due Date	Release	Deliverable?
<i>Create draft requirements</i>	<i>4 February 2022</i>	R1	No
<i>Finalize requirements</i>	<i>4 February 2022</i>	R1	Yes
<i>Create mock-ups of the pages (interfaces)</i>	<i>4 February 2022</i>	R1	Yes
<i>Finalize Mockups</i>	<i>11 February 2022</i>	R1	Yes
<i>Create Flow Diagrams for different users</i>	<i>11 February 2022</i>	R1	Yes
<i>Create some of the pages of the webapp (specifically login page, teacher's dashboard, students reports page, class overview page, teaching and assessment view pages)</i>	<i>25 February 2022</i>	R1	Yes
<i>Build the backend apis and database for storing all information like teacher pages, students reports, class performance etc.</i>	<i>25 February 2022</i>	R1	Yes
<i>Link backend to frontend (for the completed pages) and test its functioning</i>	<i>25 February 2022</i>	R1	Yes

<i>Understand and Analyse the functioning of voisTutor API</i>	<i>25 February 2022</i>	R1	No
<i>Integrate the voisTutor API with at least one of the pages</i>	<i>2 March 2022</i>	R2	Yes
<i>Build the remaining pages (students' section and admin section)</i>	<i>20 March 2022</i>	R2	Yes
<i>Create backend apis for remaining pages</i>	<i>20 March 2022</i>	R2	No
<i>Integrate the voisTutor API fully with the web app</i>	<i>30 March 2022</i>	R2	Yes
<i>Testing and debugging the app</i>	<i>20 April 2022</i>	R2	No
<i>Deploy the developed application.</i>	<i>20 April 2022</i>	R2	Yes