

# DOCUMENTATION

## TEACHING ASSISTANCE FOR ENGLISH LEARNING

Team-24

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### INDEX :-

1. DESCRIPTION	-	page 2
2. USERS	-	page 2
3. STUDENT	-	page 3
4. TEACHER	-	page 7
5. ADMIN	-	page 12

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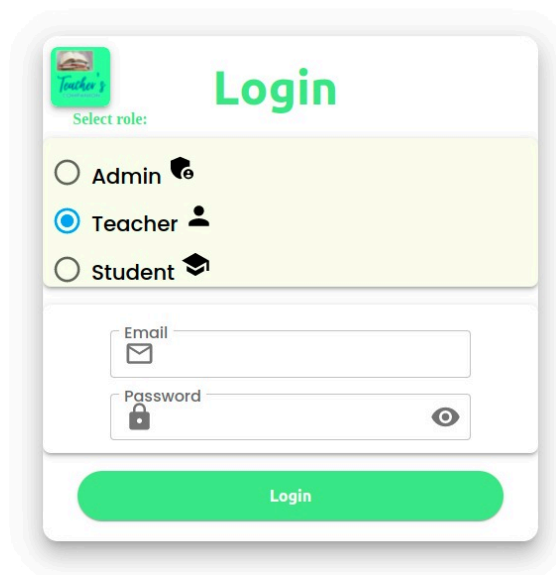
**Description :-**

The developed web-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. The app will enable the teacher to track the progress of class as well as individual students. Students can also use the web app to practice and give self-tests to improve their speaking skills.

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**Users :-**

1. Students
2. Teachers
3. Admin



The image shows a login form for a web application. At the top left is a small logo with the word 'Teacher's' and a green background. To its right is the word 'Login' in a large, bold, green font. Below the logo is a section titled 'Select role:' with three radio button options: 'Admin' with a key icon, 'Teacher' with a person icon (which is selected), and 'Student' with a graduation cap icon. Below these options are two input fields: 'Email' with an envelope icon and 'Password' with a lock icon and a toggle eye icon. At the bottom is a large green button with the word 'Login' in white text.

This website is used by 3 users, (students, teachers, admin). All 3 of them can login at this entry login page, by selecting their respective option. Email and password for teacher and student will be created by admin, only then they can use. Email and password for admin are fixed and created by IT team.

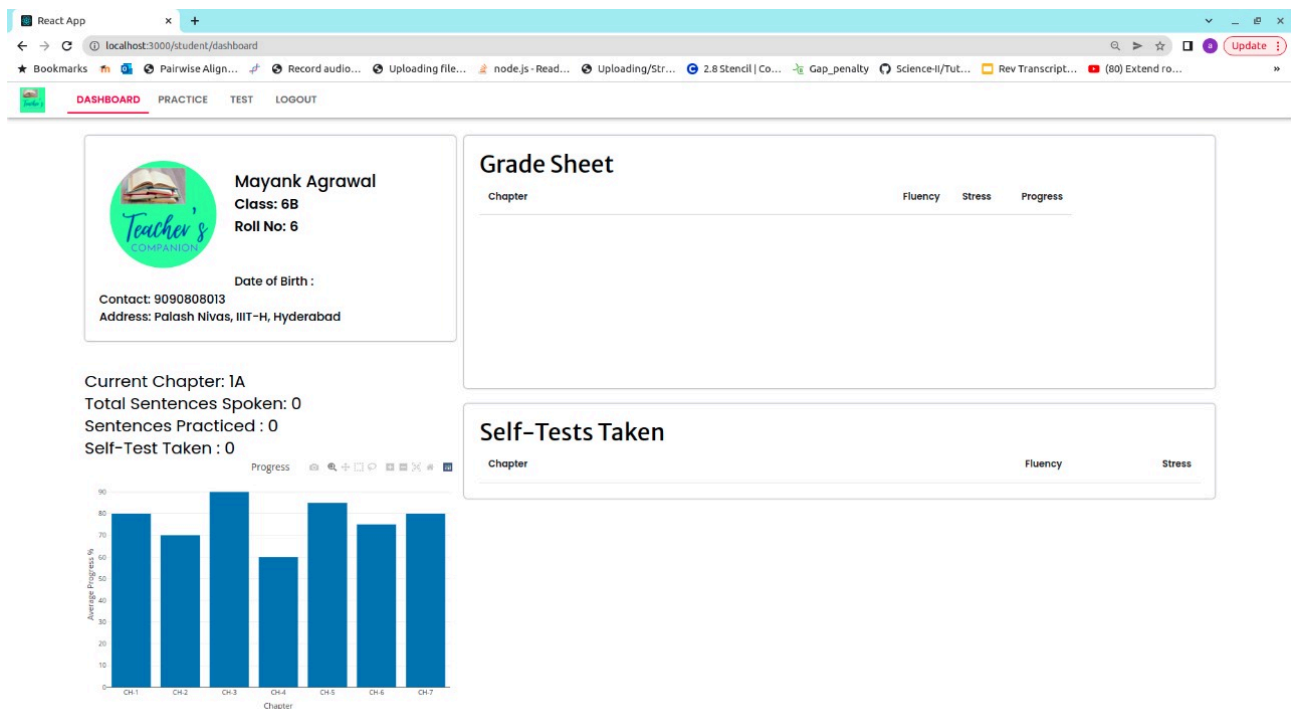
## 1. Student :-

STUDENTS CAN DO THE FOLLOWING TASKS:

1. CAN SEE THEIR RESULTS ON **DASHBOARD**
2. CAN **PRACTICE** SPEAKING SENTENCES FROM ANY CHAPTER
3. CAN TAKE **TESTS** WITH AUTOGENERATED SENTENCES

## DASHBOARD

- Dashboard is a place where student can see all his personal details, all his scores at one place easily
- After student logs in, then he will be directed to a dashboard with all his personal detail which he can edit and see all of his scores and grades
- He can see results related to sentences he spoke, self-tests he has taken, his grade sheet performance during his class conducted by his teacher from her login, current chapter.



## PRACTICE

- In this webpage he can add sentences from whatever chapter he wishes for, and later it will be redirected to a webpage where he can record all the sentences with his voice. After pressing evaluate he will get score for each individual sentence as a popup, with all his syllable score, fluency score, the area which he has done mistakes compared to expert speech. Here you can select sentences from any chapter



ADD SENTENCES HERE

The screenshot shows a web application interface for practicing sentence recording. The user is logged in as Mayank Agrawal and is currently in Chapter CH-1A. The interface includes a navigation bar with 'DASHBOARD', 'PRACTICE' (active), 'TEST', and 'LOGOUT'. Below the navigation bar, there are two tabs: 'SELECT SENTENCES' and 'TRAIN'. A 'Select Chapter' dropdown menu is set to '1A (First Chapter)'. To the right of the dropdown are two buttons: 'VIEW ADDED SENTENCES' and 'TRAIN'. Below these, a section titled '1A – First Chapter' displays a table of sentences with 'Add' and 'Remove' buttons for each.

Sentence	Add	Remove
His answer made the man happy.	ADD	
The workman repaired the floor near the door before he left.	ADD	
We changed our mind and decided to find a new night club	ADD	
She dropped the coins into the hole in the soil.	ADD	



## RECORD AUDIO

React App

localhost:3000/student/train

Pairwise Align... Record audio... Uploading file... node.js - Read... Uploading/Str... 2.8 Stencil | Co... Gap\_penalty Science-II/Tut... Rev Transcript... (80) Extend ro...

DASHBOARD PRACTICE TEST LOGOUT

Mayank Agrawal  
Current Chapter: CH-1A

SELECT SENTENCES TRAIN

Overall Session Performance:  
Fluency: 84%  
Syllable Stress: 76%

FINISH TRAINING

**TRAIN**

Current Sentence:  
The workman repaired the floor near the door before he left.

Current Recording:

0:00 / 0:00

EVALUATE

Sentence	Expert Audio	Record	No of Times Evaluated
His answer made the man happy.	EXPERT	RECORD	0
The workman repaired the floor near the door before he left.	EXPERT	RECORD	0
We changed our mind and decided to find a new night club	EXPERT	RECORD	0



## GET RESULT

**RESULT**

Name: Ayush Agrawal  
Class: 6B  
Sentence: The workman repaired the floor near the door before he left.

Syllable Score: 99.27%  99.27%

Fluency Score: 100%

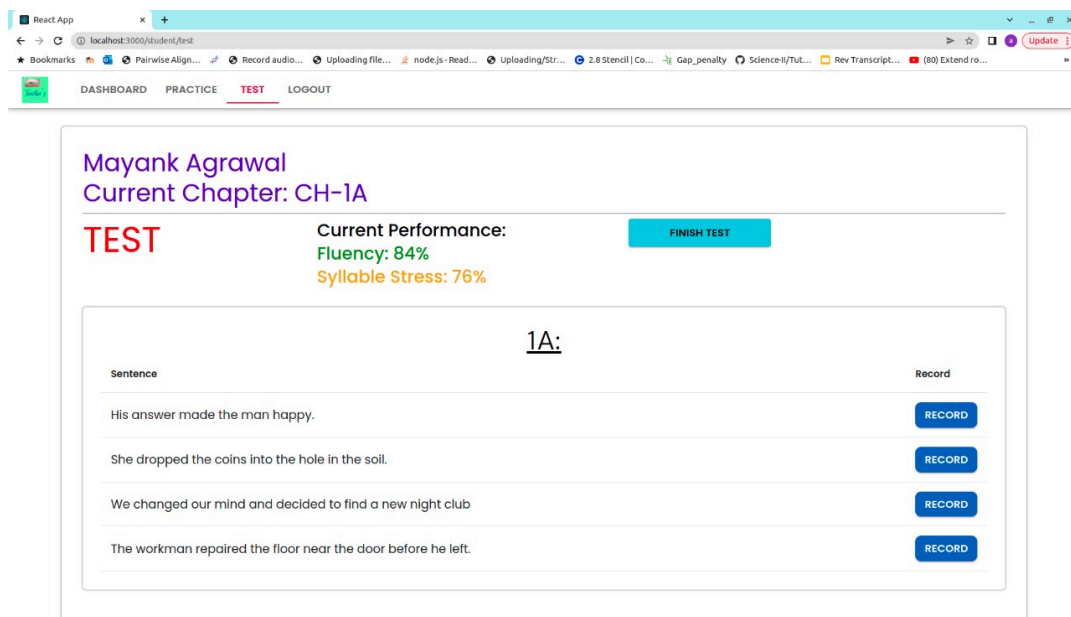
<  >

Words	the	workman	repaired	the	floor
Scores	1.00	0.99	0.99	0.99	0.98
Syllables	dh-ah-	w-er-k-m-ah-n-	r-ih-p-eh-r-d-	dh-ah-	f-l-a-o-r-

CLOSE

## TEST

- Here you will be given sentences automatically from chapters that are done till now, unlike practice section where you can select what ever sentence you can from any chapter.
- After recording audio you will get the same popup result shown above. And the result will get averaged to the previous test results and shown on the dashboard.



## 2. Teacher :-

TEACHER CAN DO THE FOLLOWING TASKS :-

1. CHECK TODAYS CLASS ON **DASHBOARD**
2. CHECK ALL INDIVIDUAL STUDENT REPORTS IN **STUDENTS REPORT** PAGE
3. CHECK THE CALSS OVERVIEW IN **CLASS OVERVIEW** PAGE
4. TEACH THE CHAPTERS USING **TEACHING VIEW** PAGE
5. ASSESS THE STUDENTS USING **ASSESSMENT VIEW** WHICH WILL BE CONSIDERED FOR GRADING (MARKS).

## DASHBOARD

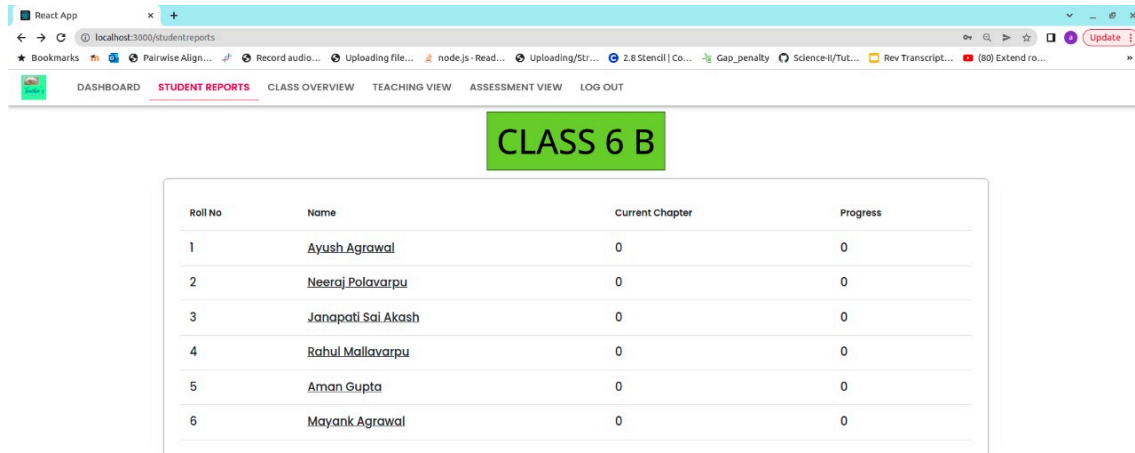
- In dashboard teacher can check all her details and todays class details.

The screenshot shows a web application interface for a teacher's dashboard. The browser address bar shows 'localhost:3000/dashboard'. The navigation bar includes links for DASHBOARD, STUDENT REPORTS, CLASS OVERVIEW, TEACHING VIEW, ASSESSMENT VIEW, and LOG OUT. The main content area is divided into several sections:

- Profile Section:** Features a profile picture of a man, the name 'Rahul Mallavarpu', age '37', contact number '9843663439', and address 'OBH Hostel, IIIT-H, Gachibowli, Hyderabad, 500031'. There is an 'EDIT PROFILE' button.
- Calendar Section:** Displays the date '21th April, 2022 Thursday' and a calendar for April 2022. The 21st is highlighted.
- Welcome Message:** Says 'Welcome Rahul Mallavarpu' and includes a 'Quote of the Day' by Richard M DeVos: 'A positive atmosphere nurtures a positive attitude, which is required to take positive action.'
- Qualifications:** Lists 'Matriculation, 1998', '10+2 Science, 2000', 'Btech CSE, 2004', and 'Mtech CSE, 2006'.
- Experience:** Lists 'DSA TA, 2002' and 'Google Internship, 2003'.
- Today's Classes:** A table with columns 'Class', 'Start Time', and 'End Time'.

## STUDENTS REPORT

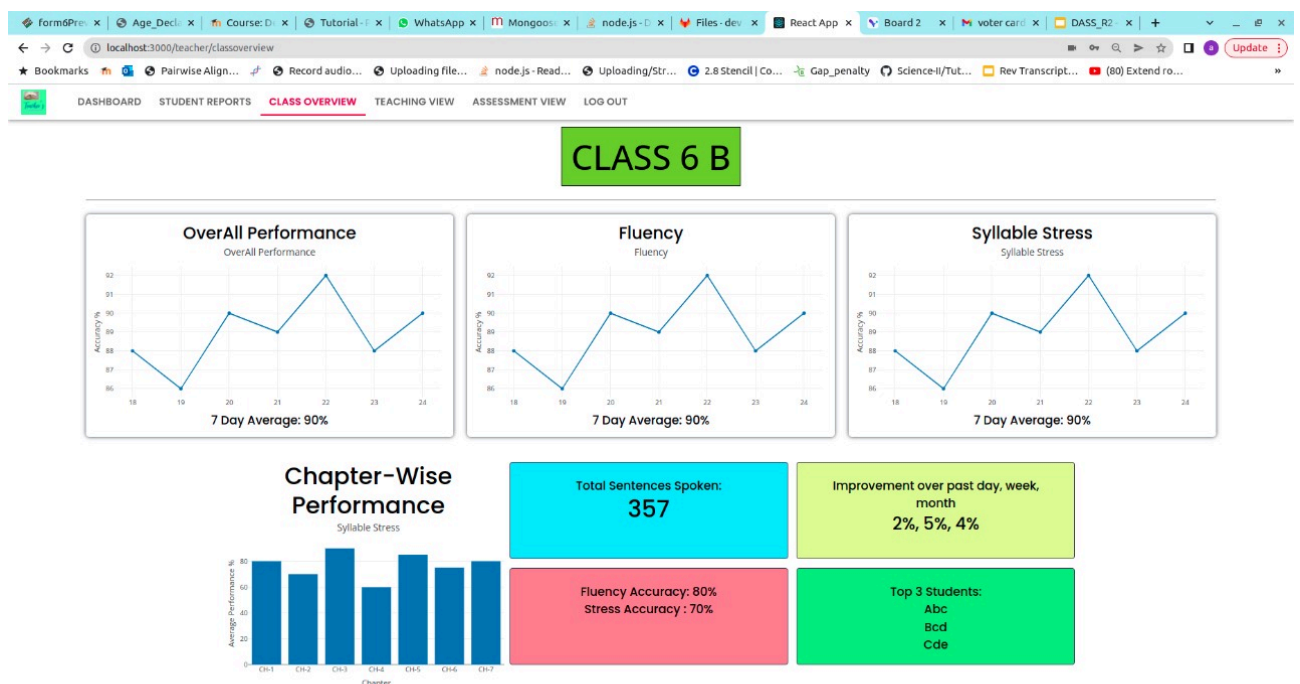
- Here teacher can see report of all the students in the class, the report contains, current chapter and their progress in it. This results are from assessment view



Roll No	Name	Current Chapter	Progress
1	Ayush Agrawal	0	0
2	Neeraj Polavarpu	0	0
3	Janapati Sai Akash	0	0
4	Rahul Mallavarpu	0	0
5	Aman Gupta	0	0
6	Mayank Agrawal	0	0

## CLASS OVERVIEW

- Here teacher can view all the detailed report of class and regarding current chapter. This results are from teaching view





## TEACHING VIEW

- In this webpage teacher can teach the current chapter by selecting sentences from the chapter and after that she can call as many students she want and she can evaluate.
- This results will get added to the class overview page.
- There is also option for saving the current sentences assigned so that she can evaluate later (**PLANNING SENTENCES BEFORE HAND**)



## ADDING SENTENCES

React App

localhost:3000/teachingview/planLesson

DASHBOARD STUDENT REPORTS CLASS OVERVIEW **TEACHING VIEW** ASSESSMENT VIEW LOG OUT

**CLASS 6B**

PLAN LESSON EVALUATE

Select Chapter:

VIEW ADDED SENTENCES SAVE LESSON EVALUATE

1A - First Chapter

Sentence	Add	Remove
His answer made the man happy.	ADD	
The workman repaired the floor near the door before he left.	ADD	
We changed our mind and decided to find a new night club	ADD	
She dropped the coins into the hole in the soil.	ADD	





EVALUATING AS MANY STUDENTS SHE WANTS

**CLASS 6B**

PLAN LESSON **EVALUATE** Overall Session Performance: **Fluency: 84%** **Syllable Stress: 76%** **FINISH EVALUATION**

1A: First Chapter **VIEW SAVED LESSONS**

Current Sentence: **His answer made the man happy.**

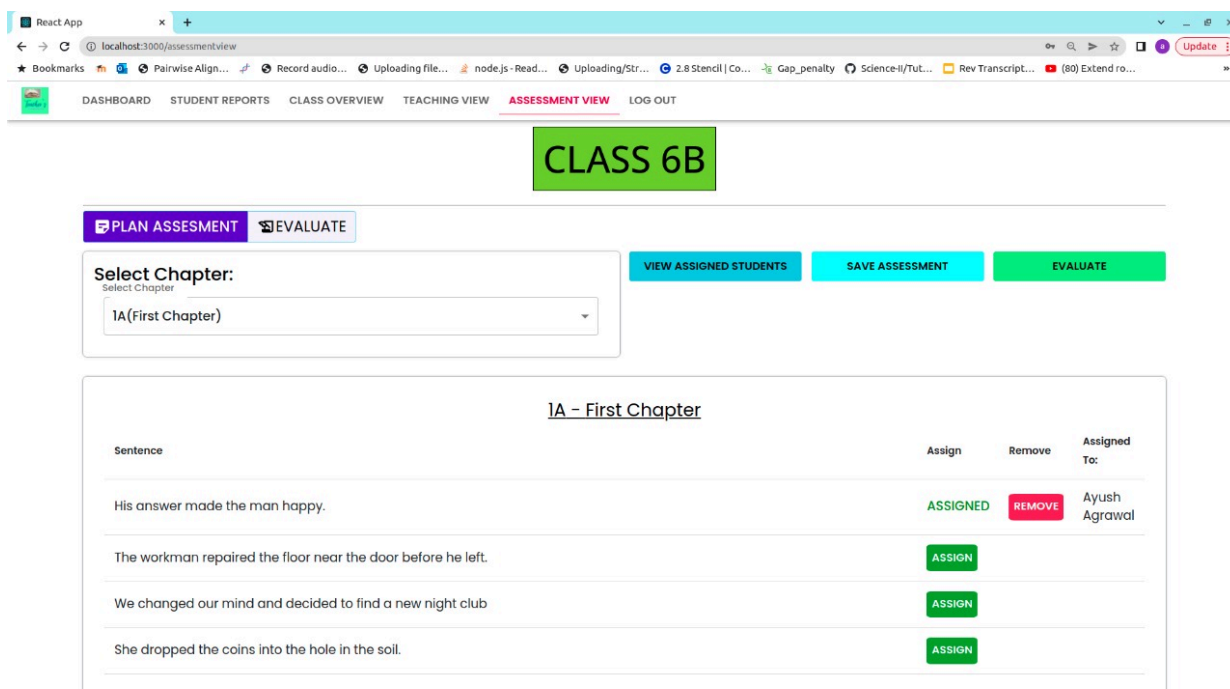
Current Recording: 0:00 / 0:00

1A: First Chapter		Expert Audio	Record	No of Times Evaluated
Sentence				
His answer made the man happy.	<b>EXPERT</b>	<b>RECORD</b>	0	
The workman repaired the floor near the door before he left.	<b>EXPERT</b>	<b>RECORD</b>	0	
We changed our mind and decided to find a new night club	<b>EXPERT</b>	<b>RECORD</b>	0	

## ASSESSMENT VIEW

- In this webpage she can take assesment for every student in the class and the final results will be added to students grade/marks. This result will also get added to students report page.
- At first she will assign each sentence to a restive student and then she will click evaluate, after that a page with each students and their sentences will appear from which we can record their audio and evaluate.
- Here each sentence will be assigned to one student
- There is also option for saving the current students assigned so that she can evaluate later (**PLANNING ASSESMENT BEFORE HAND**)

## ASSIGNING STUDENTS



React App | localhost:3000/assessmentview

DASHBOARD | STUDENT REPORTS | CLASS OVERVIEW | TEACHING VIEW | **ASSESSMENT VIEW** | LOG OUT

**CLASS 6B**

PLAN ASSESSMENT | EVALUATE

Select Chapter:  
Select Chapter  
1A (First Chapter)

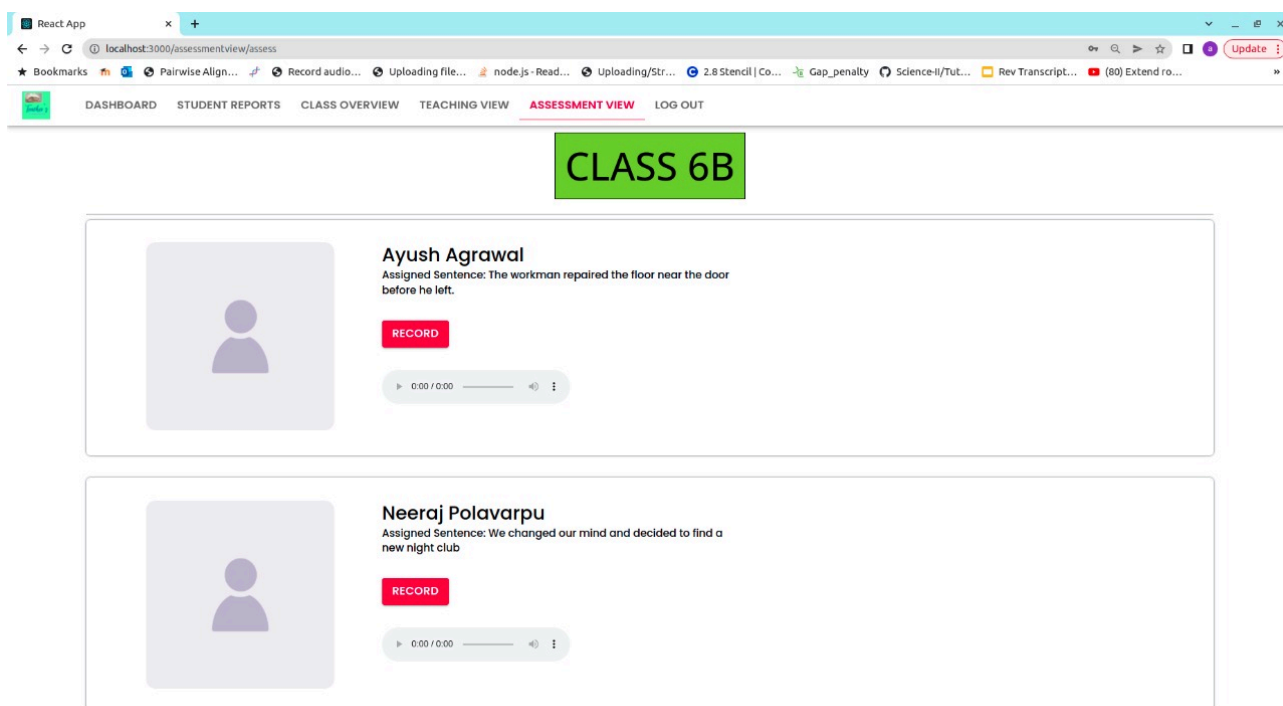
VIEW ASSIGNED STUDENTS | SAVE ASSESSMENT | EVALUATE

1A - First Chapter

Sentence	Assign	Remove	Assigned To:
His answer made the man happy.	ASSIGNED	REMOVE	Ayush Agrawal
The workman repaired the floor near the door before he left.	ASSIGN		
We changed our mind and decided to find a new night club	ASSIGN		
She dropped the coins into the hole in the soil.	ASSIGN		



## EVALUATING EACH STUDENT



React App | localhost:3000/assessmentview/assess

DASHBOARD | STUDENT REPORTS | CLASS OVERVIEW | TEACHING VIEW | **ASSESSMENT VIEW** | LOG OUT

**CLASS 6B**

**Ayush Agrawal**  
Assigned Sentence: The workman repaired the floor near the door before he left.

RECORD

0:00 / 0:00

**Neeraj Polavarpu**  
Assigned Sentence: We changed our mind and decided to find a new night club

RECORD

0:00 / 0:00

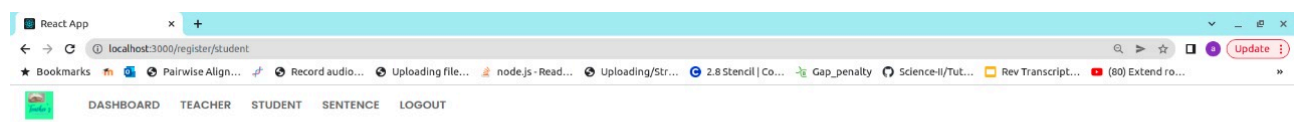
### 3. Admin :-

ADMIN CAN DO THE FOLLOWING TASKS :-

1. HE CAN REGISTER **STUDENTS**
2. HE CAN REGISTER **TEACHER**
3. HE CAN ADD **SENTENCES** AND **EXPERT AUDIO**

#### REGISTER STUDENTS

- Admin can register the students in two ways, if there is only one student to fill, then he can fill the form in webpage itself, or if there are more number of students to register at once, then he can upload an excel file for which the formate document can be downloaded itself.



## Register Student

Fill the Form

OR

Upload an Excel(.xlsx) File

Name :

Email :

Password :

Class:

Roll No:

Address:

Contact No:

SUBMIT

Please Download the template file and fill it according to the given format.

UPLOAD FILE

SUBMIT

## REGISTER TEACHER

- Admin can add all the teacher details in the form below image.

The screenshot shows a web browser window with the URL `localhost:3000/admindashboard`. The navigation bar includes **DASHBOARD**, **TEACHER**, **STUDENT**, **SENTENCE**, and **LOGOUT**. The main heading is **Teacher Registration** with a user icon. The form includes the following fields:

- Name :**
- Email :**
- Password :**
- DOB:**
- Contact No:**
- Address:**
- Qualification:**  ADD QUALIFICATION
- Added Qualifications:**
- Experience:**  ADD EXPERIENCE
- Added Experiences:**

On the left, there is a profile picture placeholder with a **Choose file** button and the text **No file chosen**. At the bottom center is a **SUBMIT** button.

## ADD SENTENCES

- Admin can add sentences and the chapter name, and record the expert audio

The screenshot shows a web browser window with the URL `localhost:3000/sentence`. The navigation bar includes **DASHBOARD**, **TEACHER**, **STUDENT**, **SENTENCE**, and **LOGOUT**. The main heading is **Add Sentence**. The form includes the following fields:

- Sentence:**
- Chapter:**
- Chapter Name:**
- Class:**
- Vois Tutor ID:**
- Expert Audio:**  No file chosen OR RECORD

At the bottom center is a **SUBMIT** button.