# THIAGARAJAR COLLEGE OF ENGINEERING

(Govt. Aided & Autonomous Institution, Affiliated to Anna University, Chennai)



# DEPARTMENT OF INFORMATION TECHNOLOGY

18IT780-HUMANCOMPUTER
INTERACTION LAB
[LAB EXPERIMENTS - RECORD]

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# **B.TECH INFORMATION TECHNOLOGY**

# 18IT780 – HUMAN COMPUTER INTERACTION LAB

[LAB EXPERIMENTS - RECORD]

REG. NO	:	18IT063	_ROLL NO :	61637
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# THIAGARAJAR COLLEGE OF ENGINEERING

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This is certified to be the Bonafide Record of 18IT780 – HUMAN COMPUTER

INTERACTION LAB Practical work done by Ms. <u>PRIYA SAVITHIRI B</u> for the Seventh

Semester – B.Tech Information Technology Degree Course, Department of

Information Technology, Thiagarajar college of Engineering, Madurai - 625015, during the academic year 2021-2022.

Register No:_	18IT063	Roll No: _	61637	
Submitted for	the Continuous	s Assessment Test	- Practical Exam	ination held on
25.10.2021				

**EXTERNAL EXAMINER** 

INTERNAL EXAMINER

## ONLINE PROCTORING SYSTEM

### **PROJECT DESCRIPTION:**

Online proctoring has surged during the Coronavirus pandemic, and so too have concerns about the practice, in which candidates take exams under the watchful eyes (human or automated) of third-party programs. Candidate concerns are their privacy and increasing test anxiety via a sense of being surveilled. The project aims to provide a safe and user-friendly environment to take exams online to various locations for those who don't have access to campus. The project employs various machine learning models to reduce the burden on the admin to detect malpractice by the students on a large scale. The model verifies and authenticates the candidates taking the exam and continuously checks for any malpractices. This is done by analyzing video and audio that the model processes to verify the integrity of the student.

### 1. Customer or User expectations & Design Considerations

- User Friendly Design Interface
- Attractive and responsive application
- To reduce cheating in online exams
- To avoid verbal assistance
- To detect Remote access and dual device usage
- Anomaly detection.
- Exams conducted in a Well-organized way.

2. As a Designer identify the issues in design, add on /issues/enhancement in Prototype, storyboard design, ergonomics, Typography, Color, Navigation, Interaction Factors and international standards in the website / mobile app design

#### • ISSUES

- → The usage of color should match with human emotions.
- → It would have a proper color match and avoid unwanted navigations.

#### • ADD ONs

- → Add required images to make the site much more attractive.
- → Add some different colors for buttons.

#### • <u>ABOUT PROTOTYPE</u>

- → Font style and size were perfect, it maintained readability.
- → Navigation is good and the flow works well.
- → All the modules were integrated in a good manner.

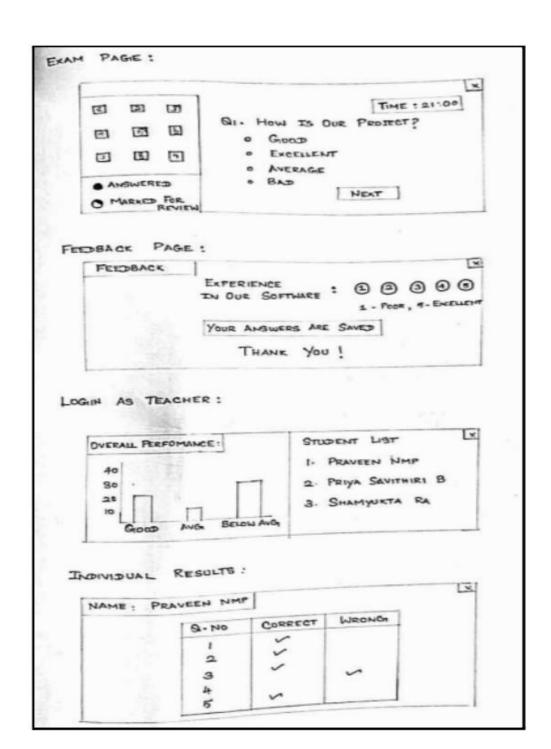
### • ABOUT STORY BOARD

- → Creativity is top notch and most of all modules were implemented.
- → The tool chosen was good and it had many features to sketch what we had in mind.

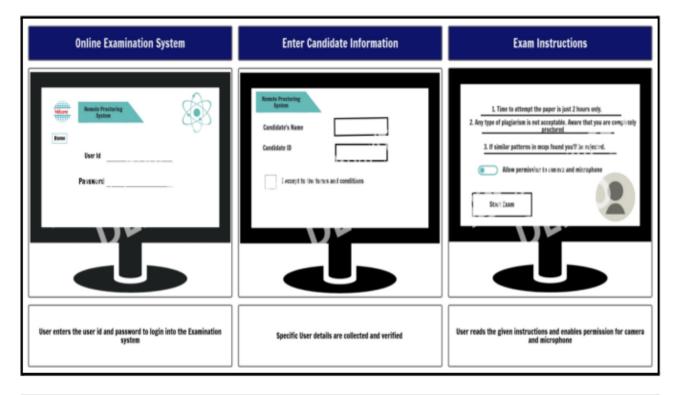
# STORY BOARD DESIGN

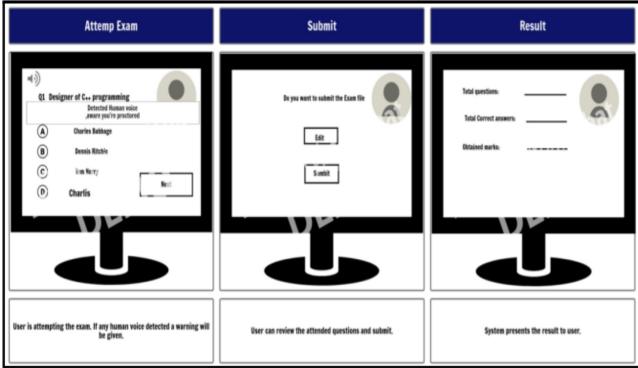
# 1. Hand Drawn

Home	PAGE:						
	EXAM PROCTORING SYSTEM						
	The state of the s						
	LOGIN						
	REGUSTER						
	Demo (account?)  Register						
	me de la seconda						
REGI	STER PAGE:						
	REGISTER						
	USER NAME :  PASSWORD :  CONFIRM PASSWORD:  (OR) LOGIN WITH : G Y!						
							PER
							BROWSER : CHECK W
	MICROPHON : ALLOW AUDIO : CHECK IN VIDEO : CHECK IN						
	NOTIFICATION: BLOCK SCREENSHARE: ALLOW YOUR SYSTEM IS READY						
	PROCEED TO TEST						

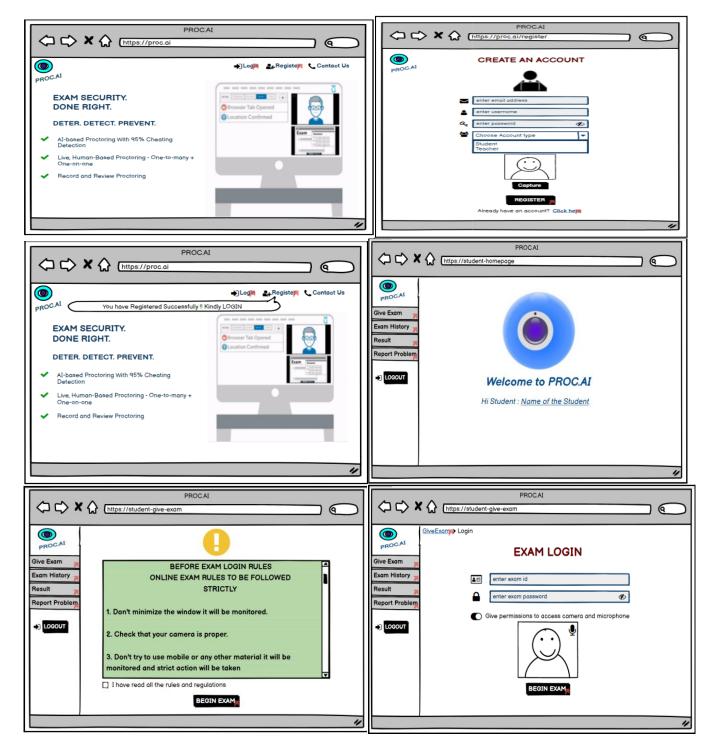


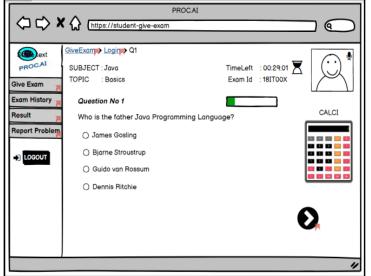
# **Using Tool:**

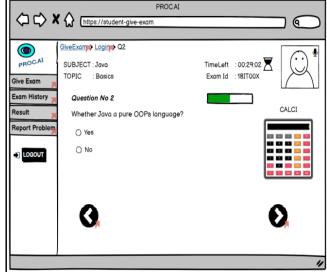


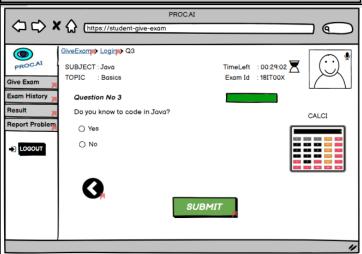


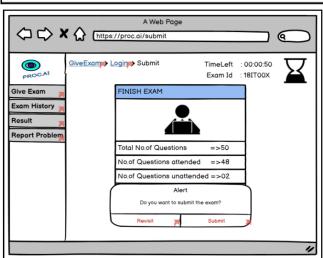
## **USER INTERFACE DESIGN USING BALSAMIQ TOOL**

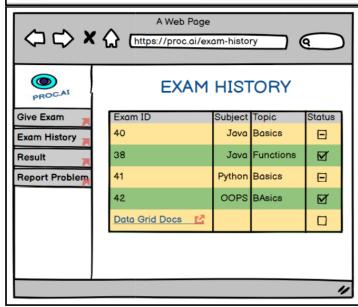


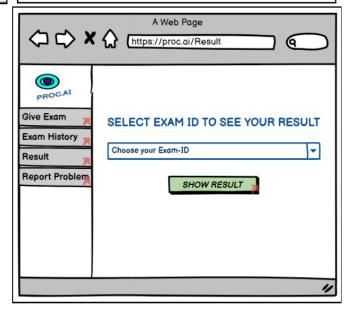


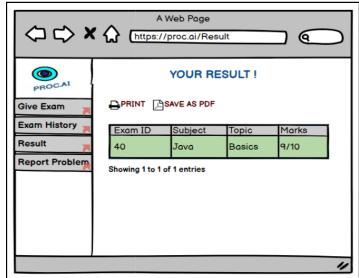


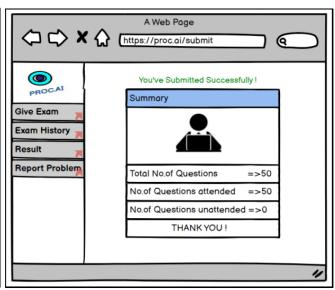


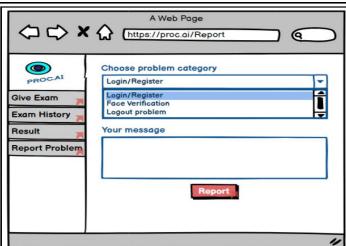




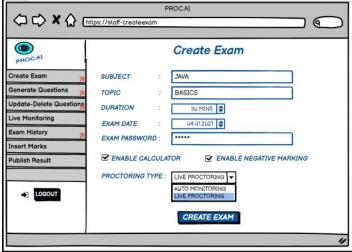


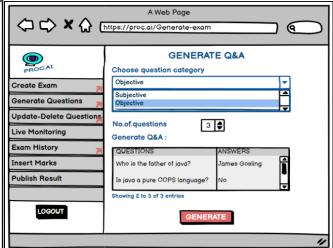


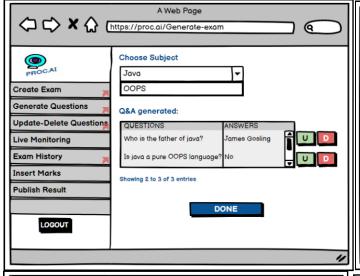


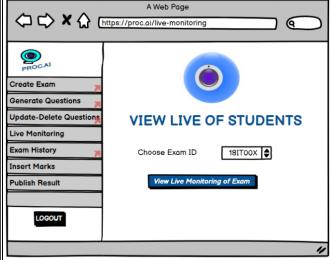


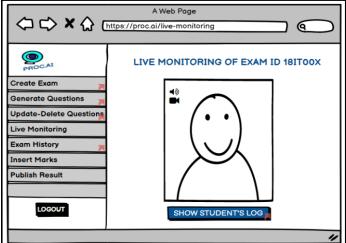


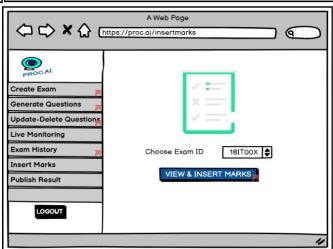


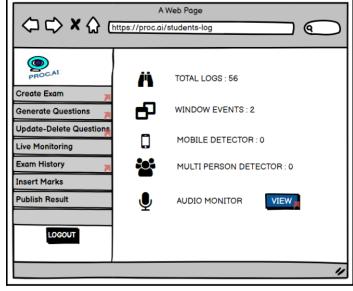


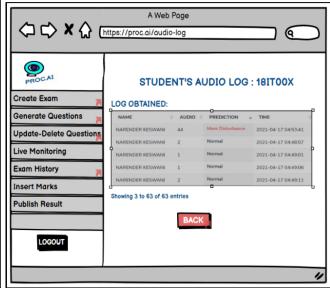






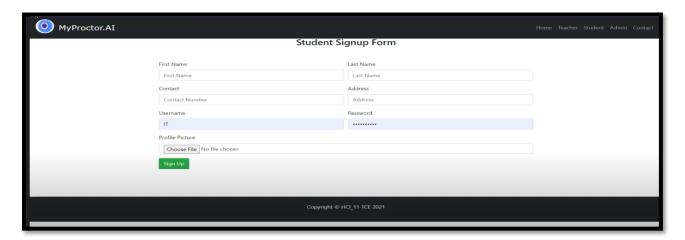




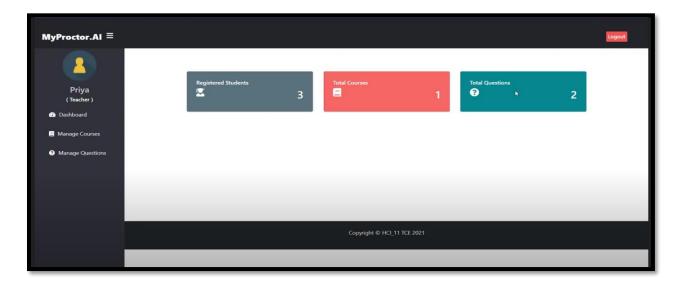


# **Web Design and Features**

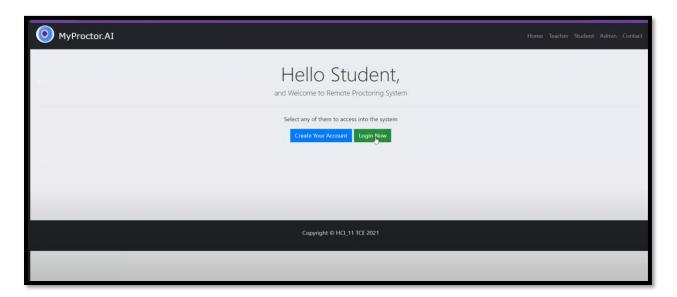


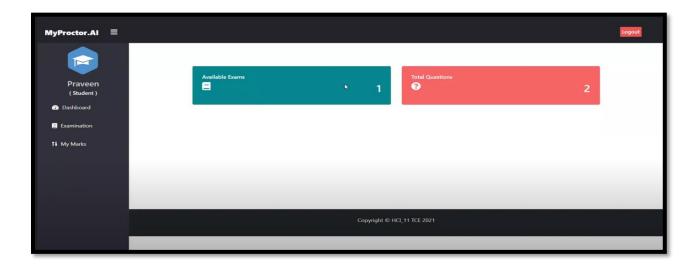


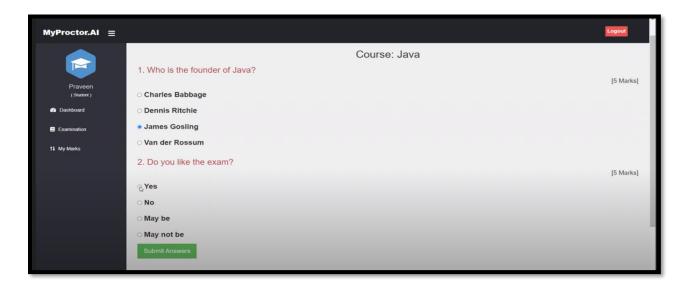


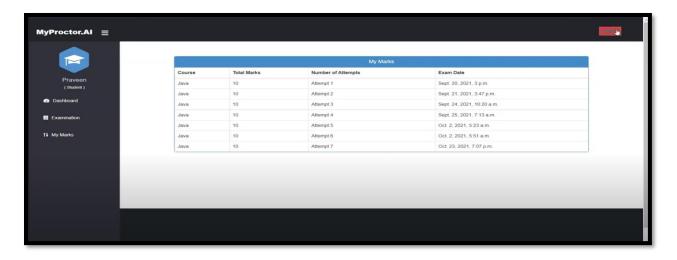


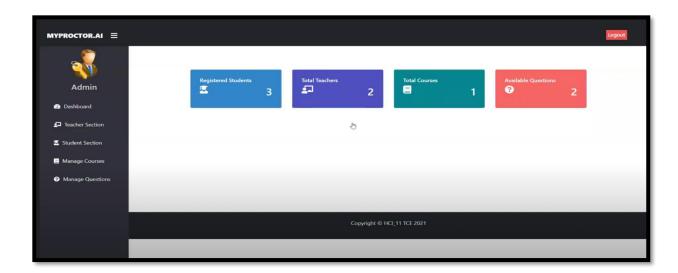


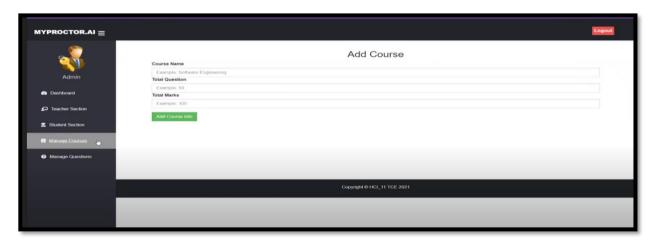


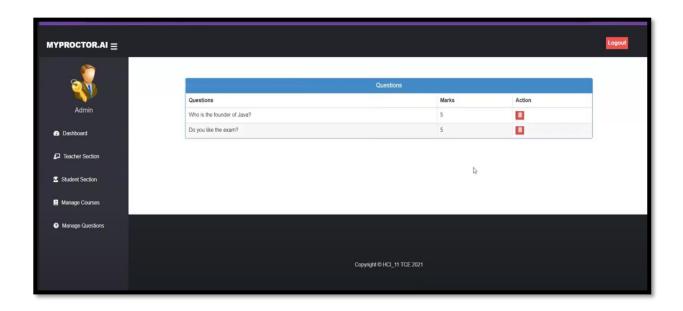


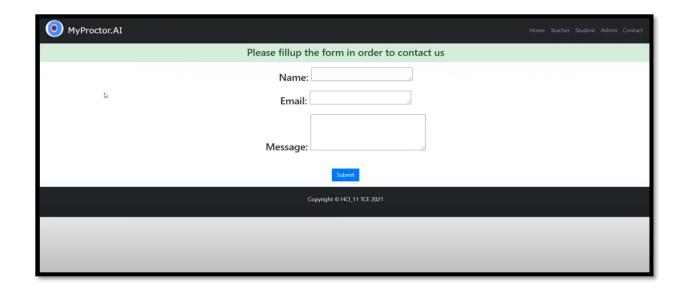










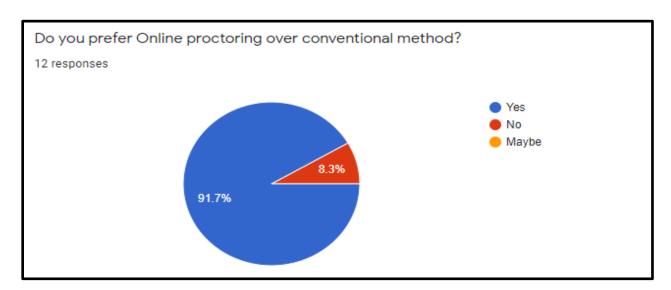


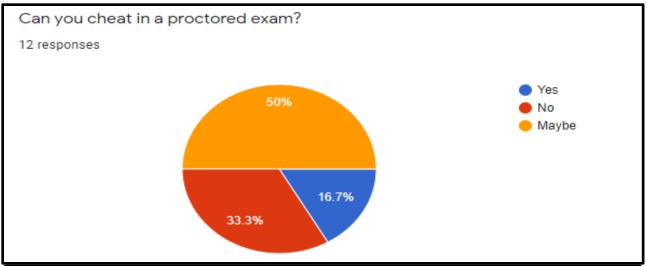
## 3. Evaluation with the Experts

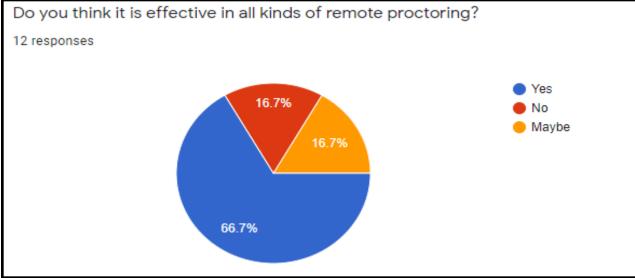
(Faculty/Friends/Novice User)

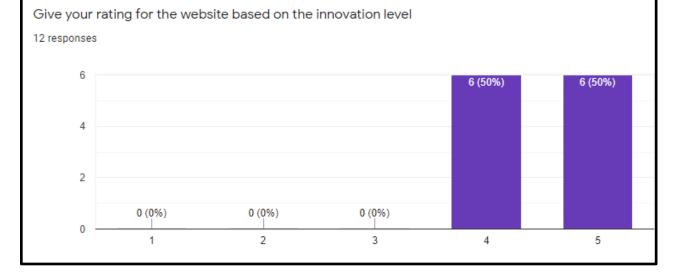
- To change background color.
- Modify font color and make them uniform
- Add some more related to application

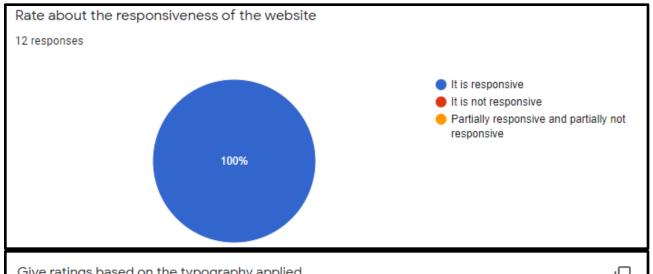
# **4**. Survey type evaluation with minimum 3 persons (Technical/Non-Technical)

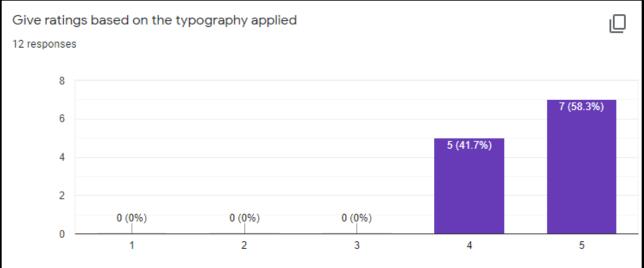


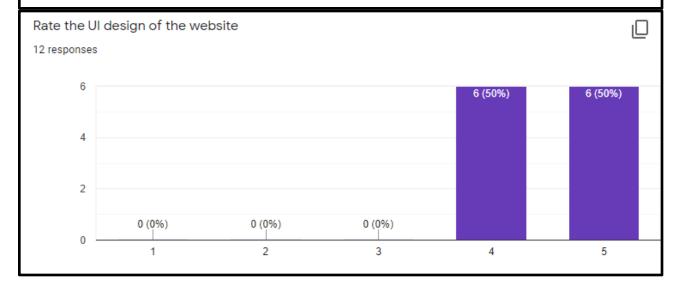


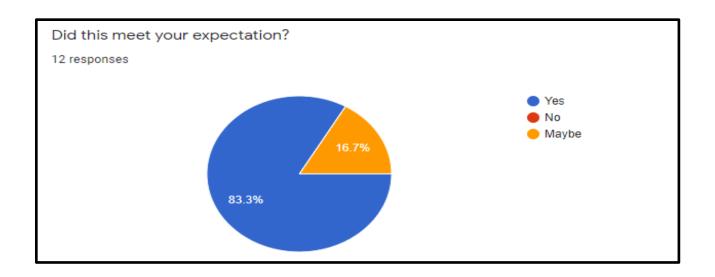












So based on the survey analysis we are able to find that we need to work on the UI designs and also have to make some changes to satisfy all the HCI principles to get a better design outcome.

# 5. Error Handling and User Centric Design factors considered in the HCI Lab Project

- **Error** handling:
  - 1. If the students need to change their selected answers they can change before the completion of the exams.
  - 2. Teachers can edit the questions before publishing the test.
  - 3. If the answer is found to be incorrect, Teacher can change the selected answer option for the question and assign marks to every student who has given the correct answer.
- User-centered design improves the user experience with the exact user specified requirements are well satisfied.
- ❖ For user centric design factors, we have considered using investigative methods and tools as surveys and interviews.
- ❖ Therefore, Google forms have been used to interact with the stakeholders and to collect their requirements.
- **&** Based on the survey results, stakeholders suggested features and developments are added.

### 6. Disability people factors consideration future with theoretical information

- Since it is a website, there will be no concerns for people with any kind of disabilities.
- Large fonts, spaced out letters, minimum text, and high-contrast color schemes can simplify the visually impaired people testing experience.

### 7. Evaluate the successful and failure HCI project in general

#### **Success:**

- We have implemented this app and we have done all the things from scratch and the application looks simple and easy to use.
- The UI of the application is quite attractive and helps the user to access so it is user friendly.
- More of the functions of the app are implemented with appropriate UI Designs.
- This app will be a successful one when it is used by the right stakeholders/customers.

#### Failure:

- Although we have done a good simple UI Design since we have not considered all the UI standards such as the Typography and Interaction Factors needs to be much more standardized.
- Still some more functionalities need to be added.