

# **Eval – Let's Learn & Assess**

*A project report submitted in partial fulfilment of the requirements for the award of  
the degree of*

## **Bachelor of Technology**

In

### **Computer Science and Engineering**

By

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Under the Guidance of

**Mr. Pankaj Kapoor**

**Department of Computer Engineering & Applications**

**Institute of Engineering & Technology**



**GLA University**

**Mathura – 281406, INDIA**

**Dec, 2020**

## **DECLARATION**

We hereby declare that the work which is being presented in the B.Tech. Project “**Eval – Let’s Learn and Assess**”, in partial fulfillment of the requirements for the award of the *Bachelor of Technology* in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of our own work carried under the supervision of Mr. Pankaj Kapoor.

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign \_\_\_\_\_

Name of Candidate: Rohan Bhardwaj

University Roll No.: 181500589

Sign \_\_\_\_\_

Name of Candidate: Shivani Chauhan

University Roll No.: 181500678

Sign \_\_\_\_\_

Name of Candidate: Vanshika Mahle

University Roll No.: 181500781

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Name of Candidate: Vimal Mishra

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# **CERTIFICATE**

This is to certify that the project entitled "**Eval – Let's Learn and Assess**", carried out in Full Stack Project – I Lab, is a bonafide work by Rohan Bhardwaj (181500589), Shivani Chauhan (181500678), Vanshika Mahle (181500781), and Vimal Mishra (181500792) and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

**Signature of Supervisor:**

**Name of Supervisor:** Mr. Pankaj Kapoor

**Date:** 06/12/2020

## **ACKNOWLEDGEMENT**

Presentation inspiration and motivation have always played a key role in the success of any venture.

This project is itself an acknowledgement for all those people who have given us their heartfelt co-operation in making this project a grand success

We extend our sincere thanks to ***Mr. Pankaj Kapoor***, for providing valuable guidance at every stage of this project work. We are profoundly grateful towards the unmatched services rendered by her.

This project cannot be completed without the effort and co-operation from our group members, Rohan, Shivani, Vanshika, Vimal.

Last but not the least, we would like to express our deep sense of gratitude and earnest thanks giving to our dear parents for their moral support and heartfelt cooperation in doing the main project.

Group Members:

Rohan Bhardwaj(181500589)

Shivani Chauhan (181500678)

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## **ABSTRACT**

The higher education system of India is changing rapidly in the course of time and how the demand for online coaching for IIT JEE is increasing day by day. As per a publication by the annual Science and Engineering Indicators 2018 report of the National Science Foundation, India accounts for one-fourth of the estimated 7.5 million bachelors in science and engineering degrees awarded across the world in 2014. Indian students who pursue science after high school emphasizes more on pursuing Engineering or Medical as their career options. The HRD ministry of India reveals that nearly 2.9 million students get enrolled for an engineering course while only 1.5 million engineers pass out in India every year. Only 3 % have suitable skills to be absorbed in the job sector.

In such a condition, all students willing to be successful engineers in the future try to crack the IIT (Indian Institute of Technology) Entrance examinations, also popularly known as the JEE. It is divided into two parts-JEE Main and JEE Advanced. Students who can qualify the JEE Main are only eligible to sit for JEE Advanced. Studying in the IITs is a dream for every engineering students as IITs are considered the premium institutes for engineering across India. Overall there are 23 IIT institutes across India and the competition the students face for IIT admission is beyond imagination. According to 2018 reports, around 11 lakhs 50 thousand candidates appeared for JEE Mains Entrance examination. However, only 231024 managed to qualify for the JEE Advanced Examination. This number lessened in the final selection to a greater extent. Hence, IIT examinations can be described as a method of elimination. Only the best of the lot get into IITs. However, the number of students who qualify for IITs every year varies in an uneven manner.

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# **INTRODUCTION**

## **1.1 Motivation and Overview**

Online Learning has become very popular over the last few years. The COVID-19 pandemic has re-shaped education as more students are opting for distant learning. Due to this, many websites and applications are coming up with innovative ideas to teach students in an easy and effective way.

Recent studies have shown that there is a drastic increase in the usage of technology by educational institutions to educate and assess the learnings of the students online.

Recent studies have shown that 65% of the students who are preparing for JEE Main and IIT may adopt complete online learning by 2021. With the help of online learning, education can reach all corners of India as only a smartphone with a stable internet connection is required. We can get instant test results which help us to improve our skills. We can get study materials, videos, and mock test series, all available at a single platform.

## **1.2 Objective**

The project proposes an idea to develop a platform for IIT JEE aspirants to learn, practice, and evaluate their skills.

The website will contain related study materials, video lectures, and mock test series for practice to improve the students' performance.

### **1.3 Organization of the Project**

Online preparation for exams like JEE Main has become very popular among students these days. Online learning for is a convenient way to study, keeping in mind the current pandemic situation. JEE Main online learning is also a good alternate considering the busy schedule of students due to schools. Many institutes are providing JEE Main online coaching along with the regular classroom classes to help students prepare effectively for the exam. The good part of taking JEE Main online learning is that students have flexibility in learning hours and they can study from their home. JEE Main is a very tough exam in terms of number of applicants and the total number of seats available for admission. Students have to prepare extremely well in order to crack the exam and thus JEE Main online learning plays a very important role in cracking it down.

Undoubtedly, the pattern of studying and learning has taken a paradigm shift in recent past years with the advancement of online learning platforms. Students who have been learning in a time-bounded, rigid scenario of classroom study are now studying in JEE Main online coaching which is flexible and adaptive as per the requirement of students. Students can now learn anytime and anywhere with the internet based learning platform.

# **SOFTWARE REQUIREMENTS ANALYSIS**

## **2.1 Problem Statement**

The demand for online platforms for test preparation is growing over the years. With an online learning platform, one can learn and enhance their skills. Learning online is affordable as compared to traditional learning.

With lakhs of students preparing for IIT JEE and under 1% of students qualifying each year, an online platform will be a major helping hand to those who cannot bear the expenses of renowned coaching institutes. They can learn, practice, and test their learnings to improve their performances.

The website offers study planner, video lectures (physics, chemistry, mathematics), revision notes, test papers, topic-wise analysis, time-saving techniques, mind maps, assistance, performance analysis, etc.

## **2.2 Technology Used**

### **1) HTML5**

HTML5 is the latest evolution of the standard that defines HTML. The term represents two different concepts. It is a new version of the language HTML, with new elements, attributes, and behaviors, and a larger set of technologies that allows the building of more diverse and powerful Web sites and applications.

### **2) CSS3**

CSS stands for Cascading Style Sheets. CSS is a standard style sheet language used for describing the presentation (i.e. the layout and formatting) of the web pages. CSS3 is the latest version of the CSS specification. CSS3 adds several new styling features and improvements to enhance the web presentation capabilities.

### **3) JavaScript**

JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat.

### **4) Bootstrap**

Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use, yet features numerous HTML and CSS templates for UI interface elements such as buttons and forms. Bootstrap also supports JavaScript extensions.

## **2.3 Software and Hardware requirements**

### **1) Software Requirements**

- Visual Studio Code
- Google Chrome
- Git
- GitHub

### **2) Hardware Requirements**

A computer with minimum :

- 4GB RAM
- Core i3 processor

## **WORKING METHODOLOGY**

In this project, we will create a website to help the aspiring students of IIT JEE by providing a complete roadmap to prepare for one of toughest entrance examinations in the world.

Along with the study materials, students will have access to the video lectures of the topics to get better understanding of the concepts. The aspirants would be able to test their knowledge and improve their performances to get good scores. An MCQ based quiz assessment will be available with time constraints which would help them to solve the questions within limited time. We will provide better content and materials for preparation which would help the aspirants achieve greater results.

The platform will be of immense help to those seeking an all-in-one platform to get study materials and mock test series in order to prepare for the entrance examination.

## **TEAM CONTRIBUTION**

- Rohan Bhardwaj:

Create MCQ Quiz layout.

- Shivani Chauhan:

Design Landing Page, About Us Page and Add Study Materials

- Vanshika Mahle:

Design Quiz Section and Contact Page

- Vimal Mishra:

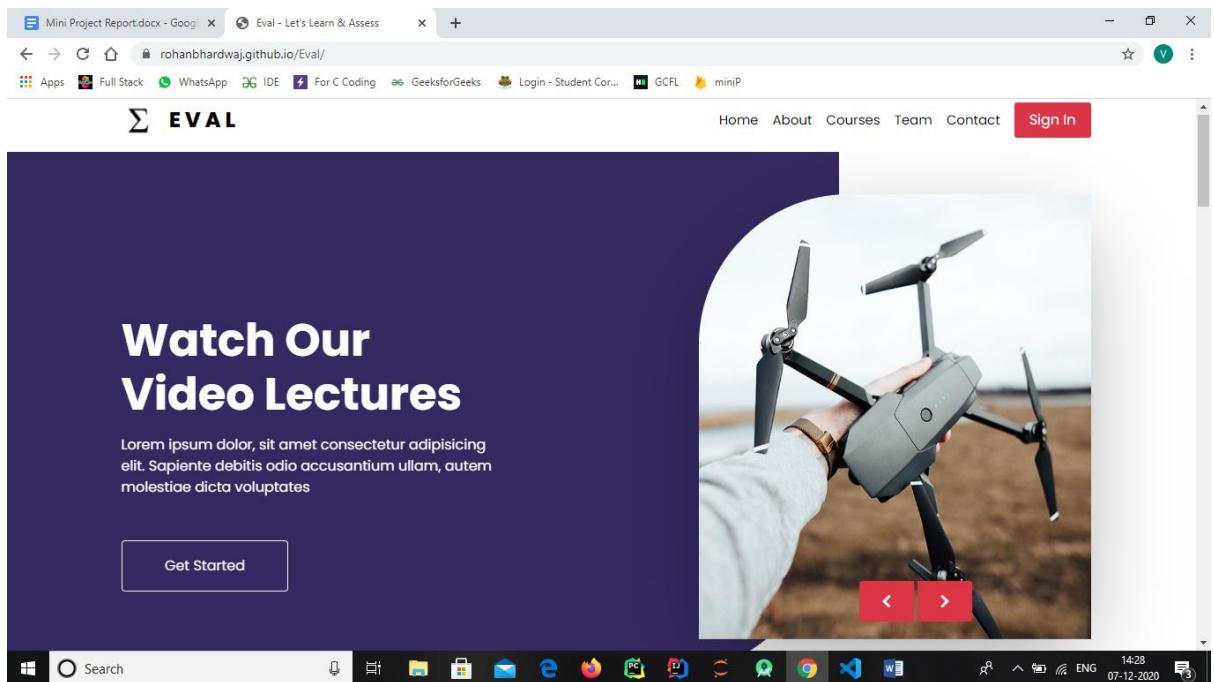
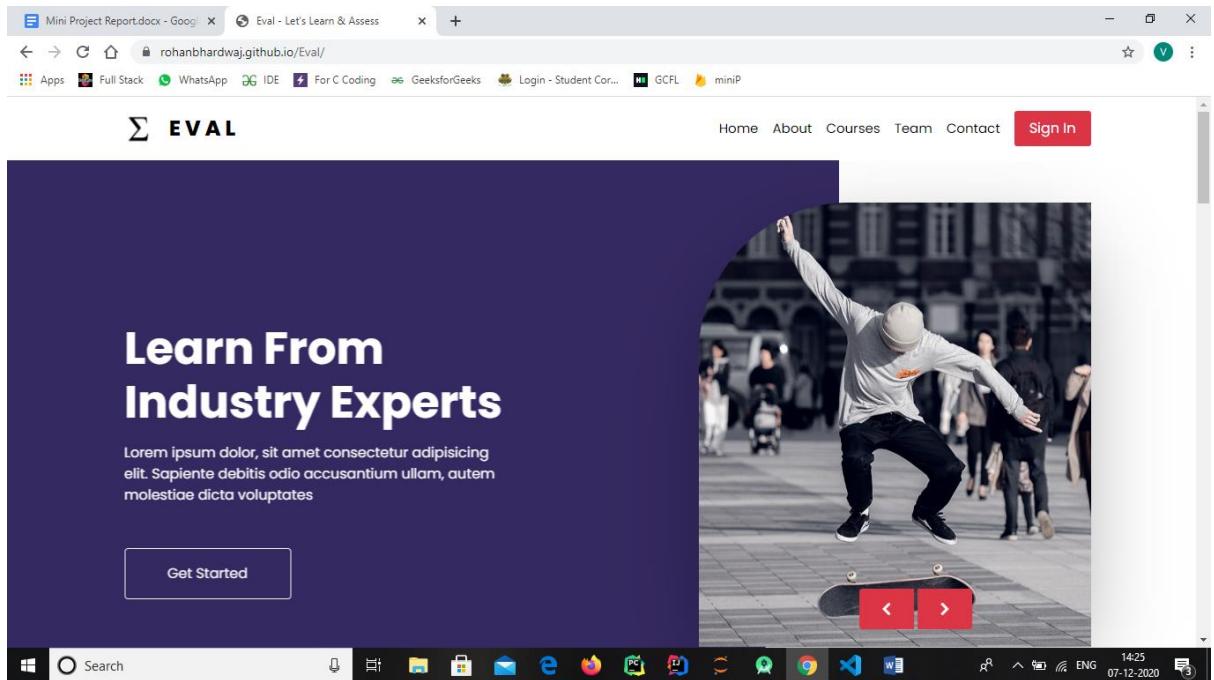
Create Content page layout, Add Study Materials

## **LIMITATIONS OF THE PROJECT**

- 1) Although they're easy to get started, we can require more time down the road to add features and customizations. We might find ourselves fighting the base styles with overrides to get the desired results. This could also lead us to write code that doesn't evolve gracefully as the project needs change.
- 2) There is no back-end included in the project for login to use extra features.
- 3) Updating may introduce conflicts with your code.
- 4) Technical debt – Developers coming onto the project will need to understand the framework in order to contribute.

If we're not already an expert, it is important to understand the code which powers the framework. This knowledge will make life a lot easier when we run into complex challenges and will make us a better developer overall.

# SCREENSHOTS OF THE LIVE WEBSITE



The screenshot shows a web browser window with the URL [rohanbhardwaj.github.io/Eval/](https://rohanbhardwaj.github.io/Eval/). The page has a dark purple header with the text "Σ EVAL". Below it is a large white section containing the heading "Test Your Knowledge" and a paragraph of placeholder text: "Lorem ipsum dolor, sit amet consectetur adipisicing elit. Sapiente debitis odio accusantium ullam, autem molestiae dicta voluptates". A "Get Started" button is visible. To the right is a photo of a smiling woman with red hair. The bottom of the screen shows a Windows taskbar with various icons.

The screenshot shows a web browser window with the URL [rohanbhardwaj.github.io/Eval/#About](https://rohanbhardwaj.github.io/Eval/#About). The page has a dark purple header with the text "Σ EVAL". Below it is a large white section containing the heading "Accelerate Your Future With Us" and the text "Are you ready to extend your knowledge-base? Let's get started today.". There are three call-to-action boxes: "Read Tutorials", "Watch Videos", and "Practice Questions", each with placeholder text. The bottom of the screen shows a Windows taskbar with various icons.

The screenshot shows a web browser window with the URL [rohanbhardwaj.github.io/Eval/#About](https://rohanbhardwaj.github.io/Eval/#About). The page has a light gray header with the title 'Σ EVAL'. Below the header is a navigation bar with links: Home, About, Courses, Team, Contact, and a red 'Sign In' button. The main content area is divided into three columns:

- Read Tutorials**: Contains placeholder text 'Lorem ipsum dolor sit amet consectetur adipisicing.' and a book icon.
- Watch Videos**: Contains placeholder text 'Lorem ipsum dolor sit amet consectetur adipisicing.' and a video player icon.
- Practice Questions**: Contains placeholder text 'Lorem ipsum dolor sit amet consectetur adipisicing.' and a checkmark icon.

Each column has a 'Read More' button at the bottom. The browser taskbar at the bottom shows various pinned apps like WhatsApp, IDE, and GeeksforGeeks.

The screenshot shows a web browser window with the same URL as the previous screenshot. The page has a dark purple header with the title 'Σ EVAL'. Below the header is a navigation bar with links: Home, About, Courses, Team, Contact, and a red 'Sign In' button. The main content area features a large heading 'Our Most Popular Courses' and a subtext 'Lorem ipsum dolor sit amet consectetur adipisicing elit. Vitae, eum?'. Below this are three course cards:

- Physics** by Himanshu Jain
- Chemistry** by Meena Sharma
- Mathematics** by Prateek Agarwal

Each card has a 'View' button at the bottom. The browser taskbar at the bottom shows various pinned apps like WhatsApp, IDE, and GeeksforGeeks.

Mini Project Report.docx - Google Docs

Eval - Let's Learn & Assess

rohanbhardwaj.github.io/Eval/#Team

Apps Full Stack WhatsApp IDE For C Coding GeeksforGeeks Login - Student Cor... GCFL miniP

**S EVAL**

Home About Courses Team Contact Sign In

## Our Amazing Team

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**Shivani Chauhan**  
GRAPHIC DESIGNER  
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**Rohan Bhardwaj**  
WEB DEVELOPER  
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**Vanshika Mahle**  
PHOTOGRAPHER  
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**Vimal Mishra**  
BACKEND DEVELOPER  
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Search

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Eval - Let's Learn & Assess

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**S EVAL**

Home About Courses Team Contact Sign In

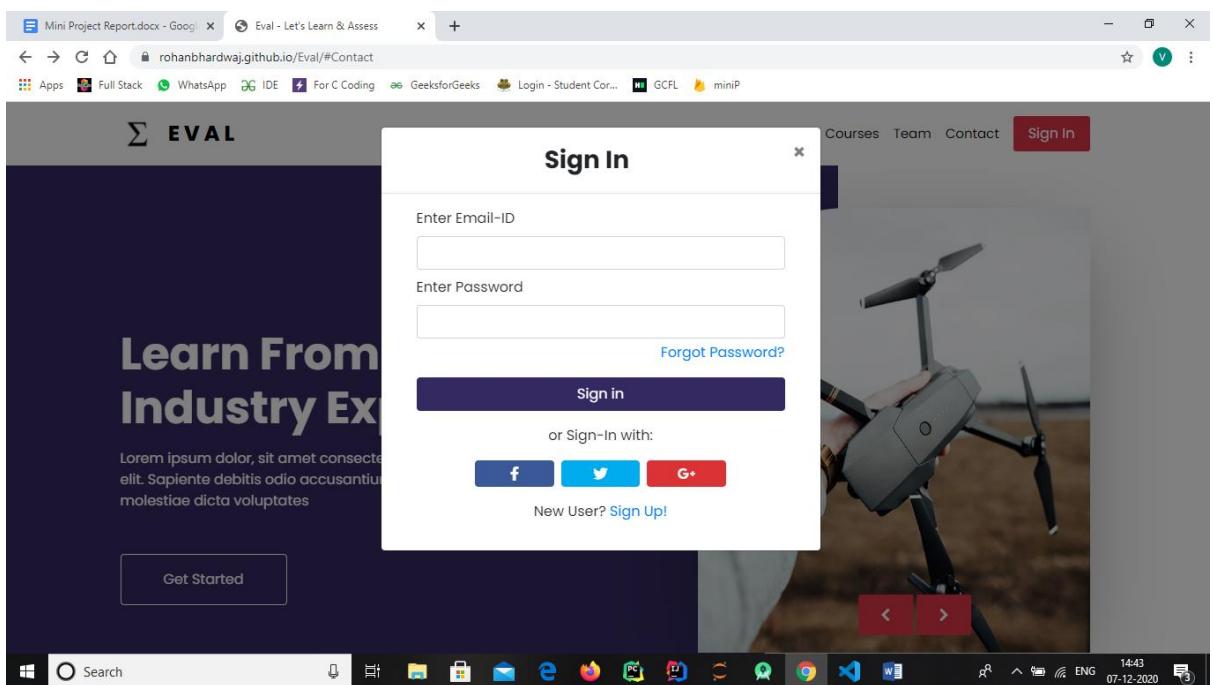
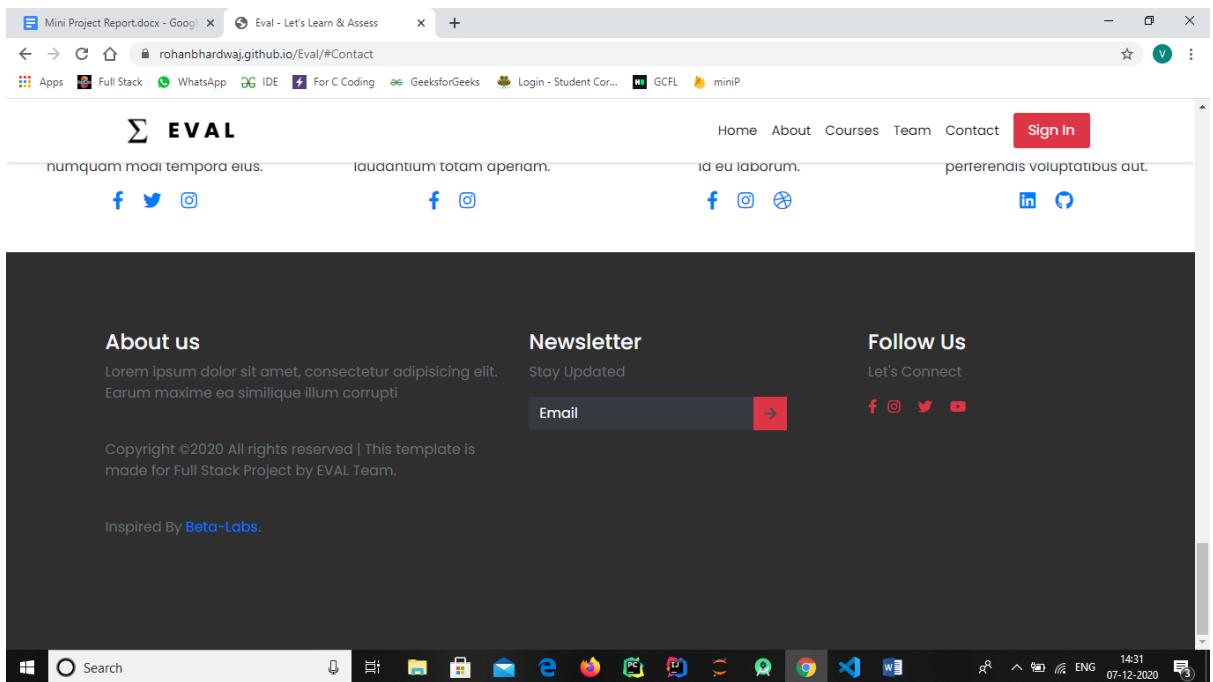
**Shivani Chauhan**  
GRAPHIC DESIGNER  
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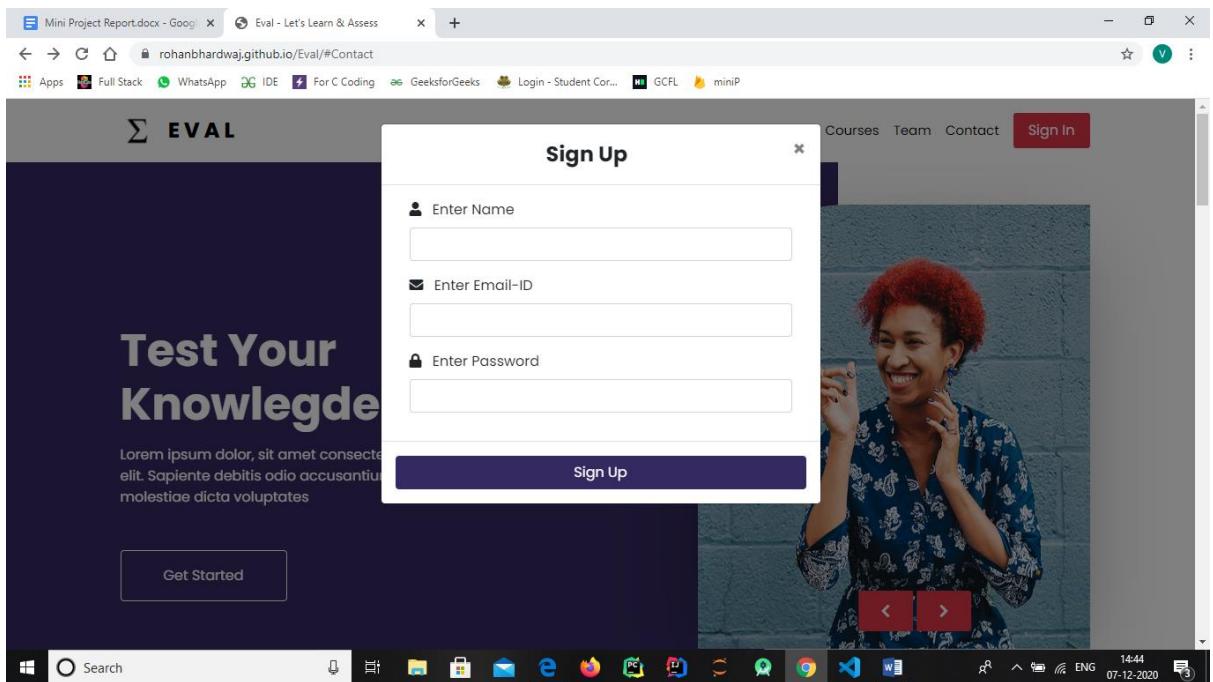
**Rohan Bhardwaj**  
WEB DEVELOPER  
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**Vanshika Mahle**  
PHOTOGRAPHER  
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**Vimal Mishra**  
BACKEND DEVELOPER  
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Physics

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**Sigma EVAL**

Home About Courses Contact Sign In

"Life is strong and fragile. It's like a paradox, it's both things, like quantum physics, it's a particle and a wave at the same time. It exists all together." - Joan Jett

IIT JEE Physics Study Notes

## Physics

Physics is the heart and soul of any engineering entrance exam especially IIT JEE. Any student wishing to pursue engineering has to obtain mastery over this subject in order to score enough marks to surpass the cut off of IIT JEE Main. Out of a total of 90 questions in JEE Main, 30 questions of a net worth of 120 marks are from physics.

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages,

The screenshot shows a web browser window with the following details:

- Tab Bar:** Mini Project Report.docx - Google Docs, Eval - Let's Learn & Assess, Physics.
- Address Bar:** rohanhardwaj.github.io/Eval/content/contentHTML/Physics.html
- Toolbar:** Apps, Full Stack, WhatsApp, IDE, For C Coding, GeeksforGeeks, Login - Student Cor..., GCFL, miniP.
- Header:** Σ EVAL, Home, About, Courses, Contact, Sign In.
- Main Content:** WATCH VIDEO LESSONS & TAKE QUIZ.
- Section 1:** Kinematics, Mechanics, Free Body Diagram. Each section contains a thumbnail image, a title, and three buttons: Watch Video, Notes, Take Quiz.
- Section 2:** Kinematics, Mechanics, Free Body Diagram. Each section contains a thumbnail image, a title, and three buttons: Watch Video, Notes, Take Quiz.
- Taskbar:** Shows various application icons and system status.

The screenshot shows a web browser window with the following details:

- Tab Bar:** Mini Project Report.docx - Google Docs, Eval - Let's Learn & Assess, Physics.
- Address Bar:** rohanhardwaj.github.io/Eval/content/contentHTML/Physics.html
- Toolbar:** Apps, Full Stack, WhatsApp, IDE, For C Coding, GeeksforGeeks, Login - Student Cor..., GCFL, miniP.
- Header:** Σ EVAL, Home, About, Courses, Contact, Sign In.
- Main Content:** LEARN AND PRACTICE THROUGH OUR DPP.
- DPP Questions:** DPP 1, DPP 2, DPP 3. Each item has a PDF icon and a red button labeled "PDF".
- DPP Solutions:** DPP 1, DPP 2, DPP 3. Each item has a PDF icon and a red button labeled "PDF".
- Taskbar:** Shows various application icons and system status.

Physics x + 127.0.0.1:5502/content/contentHTML/Physics.html

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Physics

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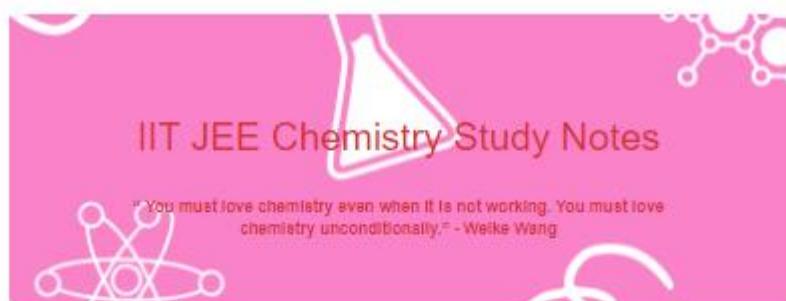
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## Chemistry

The above quote is true even for engineering aspirants. A student preparing for IIT JEE must not take chemistry lightly ,as out of a total of 90 questions, 30 questions of a net worth of 120 marks come from this subject.

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1980s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

## WATCH VIDEO LESSONS & TAKE QUIZ

Molar Concept

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Chemical Bonding

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Nomenclature

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Isomerism

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Gaseous State

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Atomic Structure



## LEARN AND PRACTICE THROUGH OUR DPP

### DPP Questions

 DPP 1

 DPP 2

 DPP 3

 DPP 4

### DPP Solutions

 DPP 1

 DPP 2

 DPP 3

 DPP 4

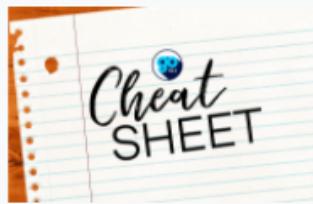
## FORMULA CHEAT SHEET

### Chemistry

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## FORMULA CHEAT SHEET



### Chemistry

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## IIT JEE Mathematics Study Notes

"Without mathematics, there's nothing you can do , everything around you is mathematics.  
Everything around you is numbers." - Shakuntala Devi

### Mathematics

Mathematics is the language of science. And every aspiring engineer is expected to achieve fluency in it. In IIT JEE , 30 questions out of a total of 90 , worth 120 marks come from the maths section. It is scoring if one is proficient in it , or else it can act as the tie-breaker.

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

### WATCH VIDEO LESSONS & TAKE QUIZ

Logarithm

[Watch Video](#)[Notes](#)

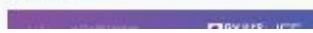
Quadratic Equation

[Watch Video](#)[Notes](#)

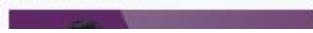
Binomial Theorem

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Vector 3D



Differential Equation



Straight Line



## LEARN AND PRACTICE THROUGH OUR DPP

### DPP Questions



DPP 1



DPP 2



DPP 3



DPP 4

### DPP Solutions



DPP 1



DPP 2



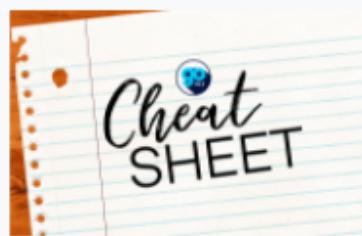
DPP 3



DPP 4

## FORMULA CHEAT SHEET

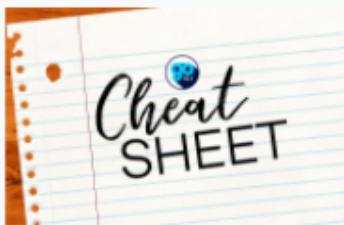
### Mathematics



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Mathematics

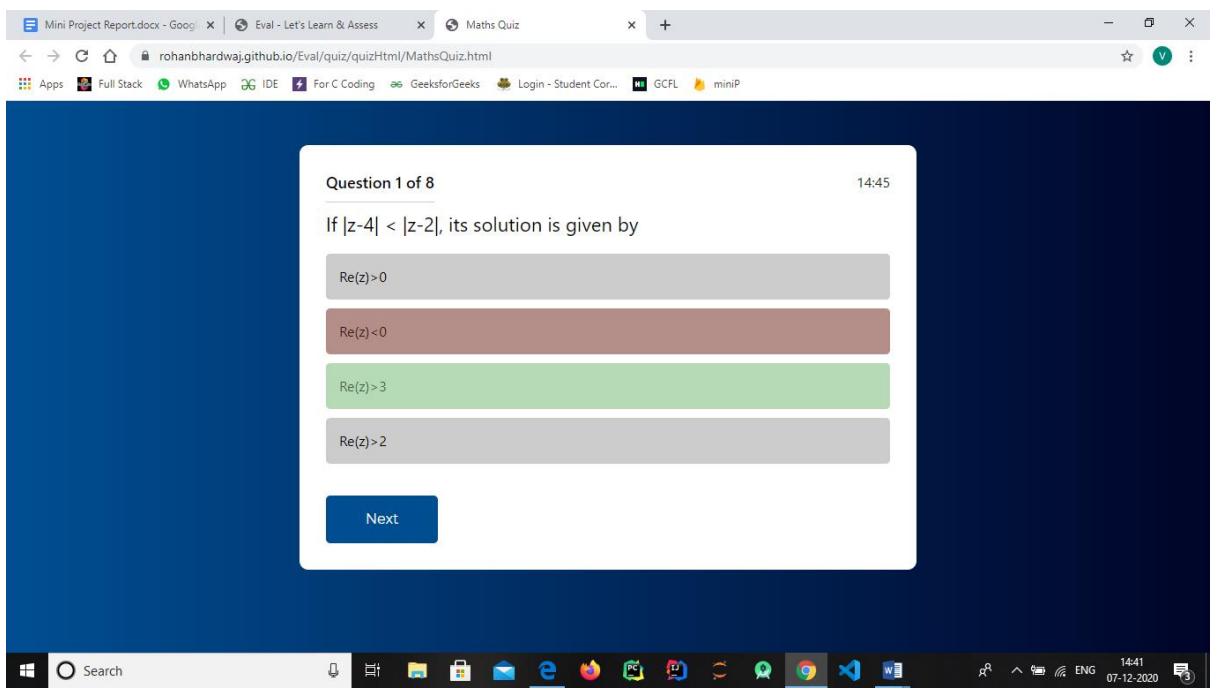
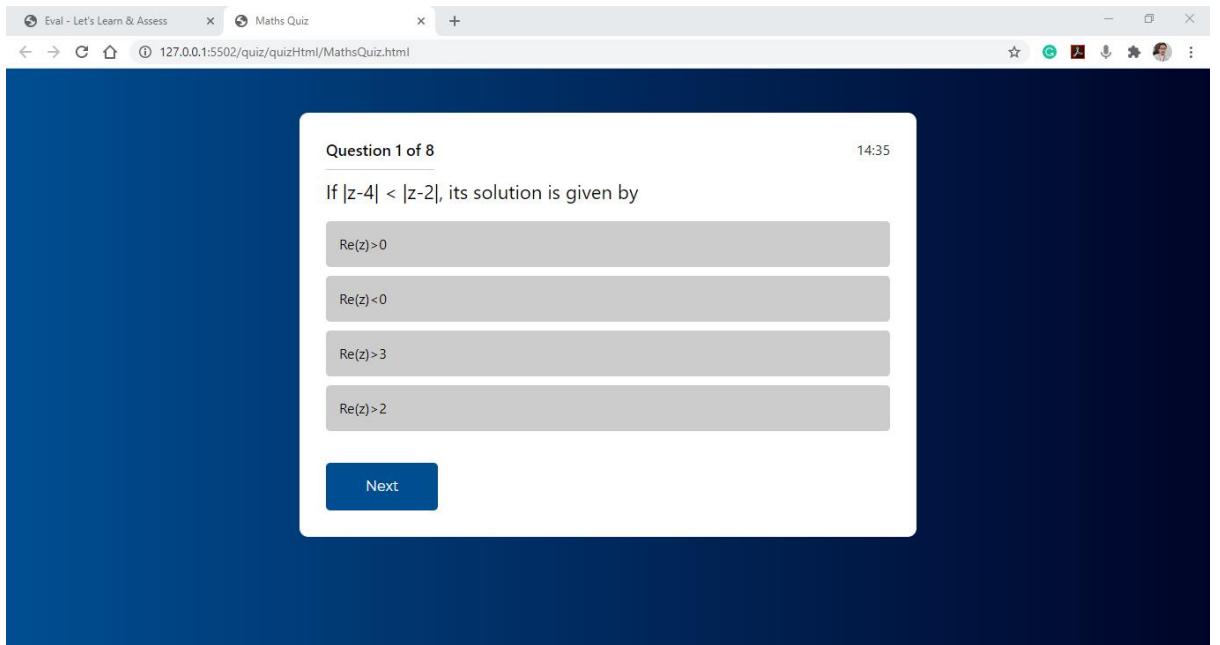
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 XYZ , Arrow Building			
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 <a href="mailto:info@eval.com">info@eval.com</a>			

The screenshot shows a web browser window with the following details:

- Tab Bar:** Mini Project Report.docx - Google Docs, Eval - Let's Learn & Assess, Maths Quiz.
- Address Bar:** rohanhardwaj.github.io/Eval/quiz/quizHTML/MathsQuiz.html
- Toolbar:** Apps, Full Stack, WhatsApp, IDE, For C Coding, GeeksforGeeks, Login - Student Cor..., GCFL, miniP.
- Page Content:**
  - Header:** Σ EVAL, Home, About, Courses, Contact.
  - Section:** Instructions:
    - Total number of questions: **8**
    - Only single correct answers **No multi-correct**
    - Read All the questions carefully!
    - Each question carries 1 mark
    - Selecting wrong answer will deduct **0.5** marks
  - Button:** Start Quiz
- Taskbar:** Search, File, Settings, Task View, File Explorer, Mail, Edge, Firefox, Teams, OneDrive, File, ENG, 14:40, 07-12-2020.

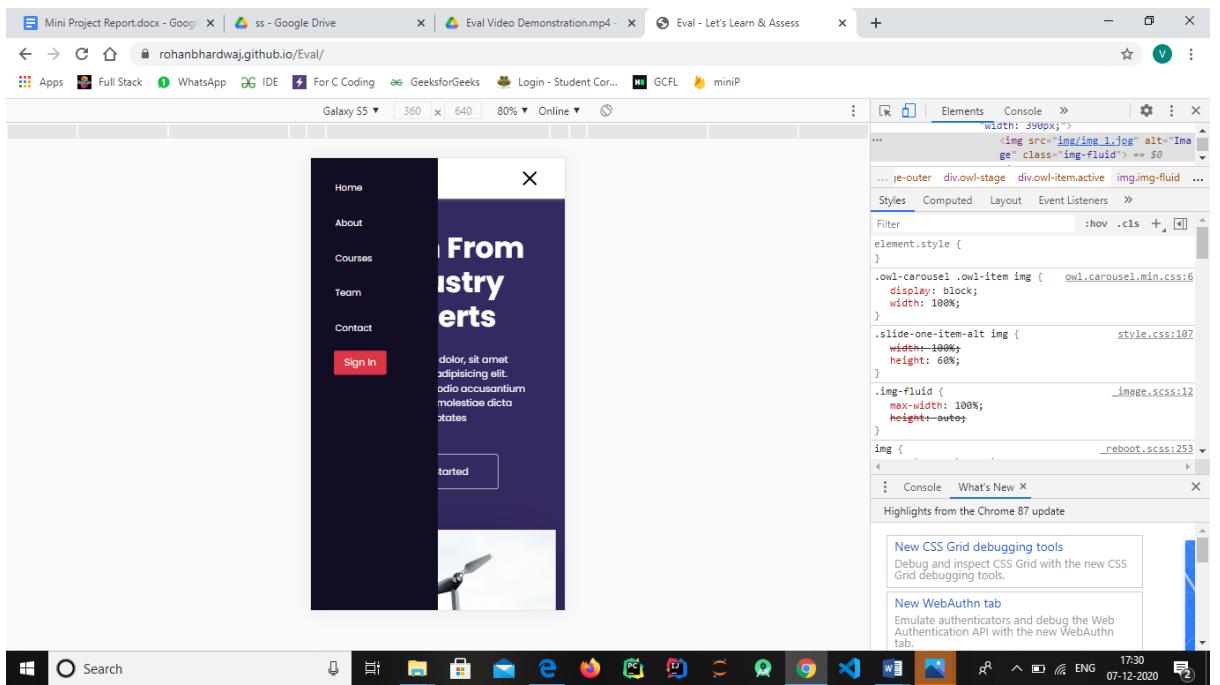
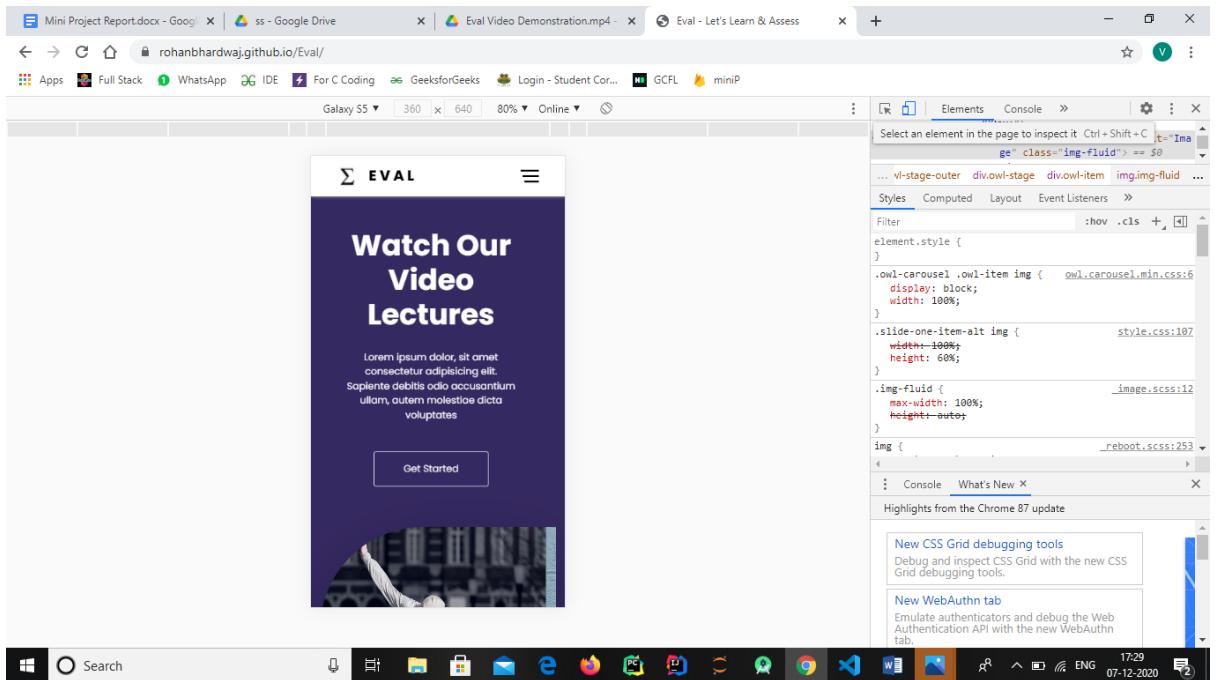


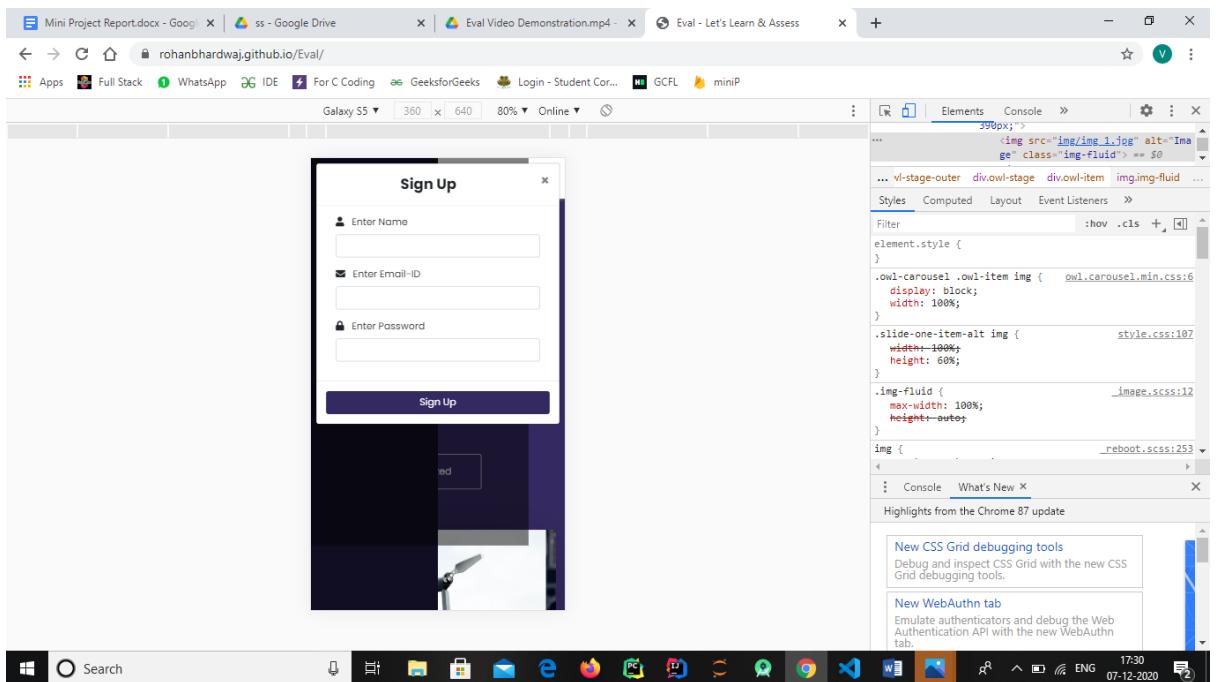
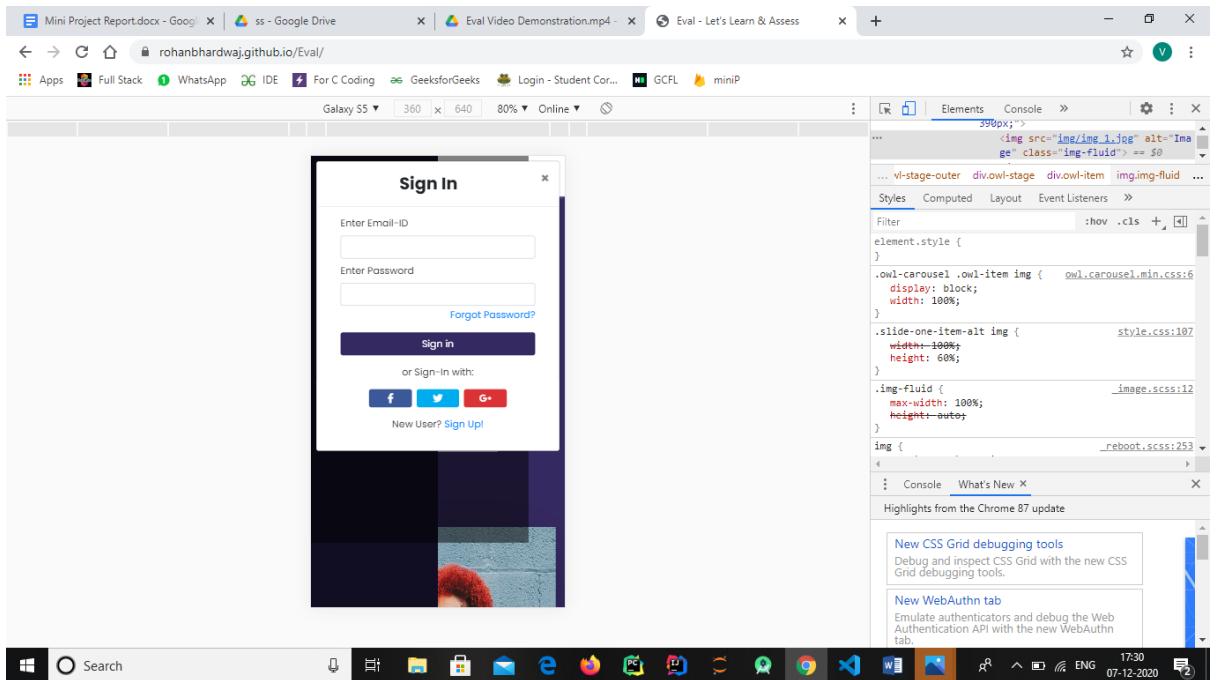
The screenshot shows a web browser window with a math quiz interface. The title bar includes tabs for "Mini Project Report.docx - Google Docs", "Eval - Let's Learn & Assess", and "Maths Quiz". The address bar shows the URL "rohanbhardwaj.github.io/Eval/quiz/quizHtml/MathsQuiz.html". The page content displays a question: "Question 5 of 8" and the time "14:22". The question asks: "Let  $f(x)$  be a differentiable function and  $G$  be the graph of  $f(x)$ . Let  $P = (a, f(a))$  be a point on  $G$  closest to  $(0, 0)$ . Then  $f(a)f'(a) =$ ". Below the question are four options: "a", "-a", "1", and "-1", each in a separate input field. A "Next" button is at the bottom of the card.

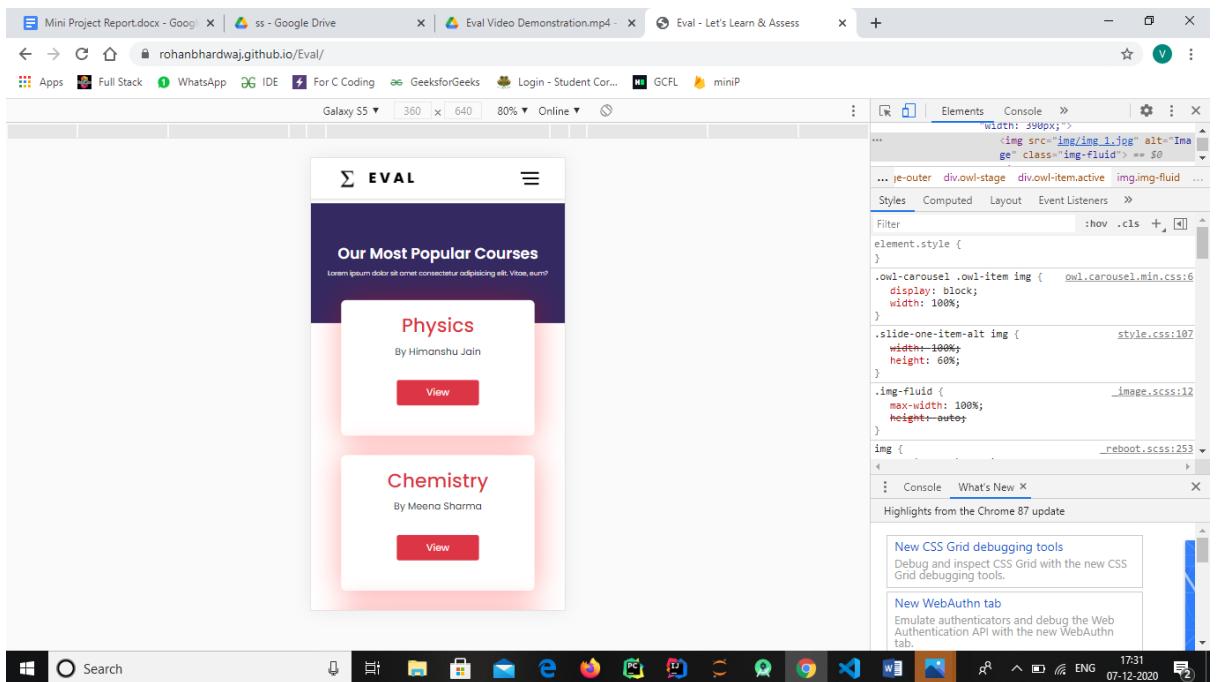
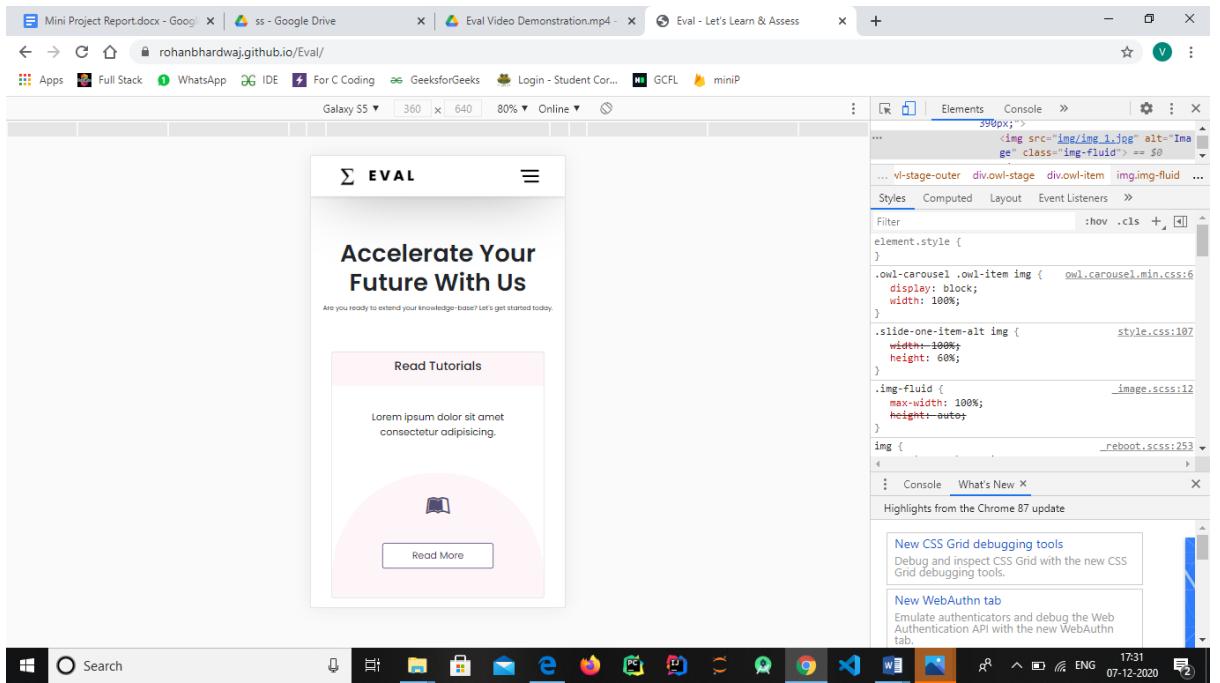
The screenshot shows a web browser window with a math quiz interface showing the results. The title bar includes tabs for "Mini Project Report.docx - Google Docs", "Eval - Let's Learn & Assess", and "Maths Quiz". The address bar shows the URL "rohanbhardwaj.github.io/Eval/quiz/quizHtml/MathsQuiz.html". The page content displays a "Quiz Result" section with a table showing the following statistics:

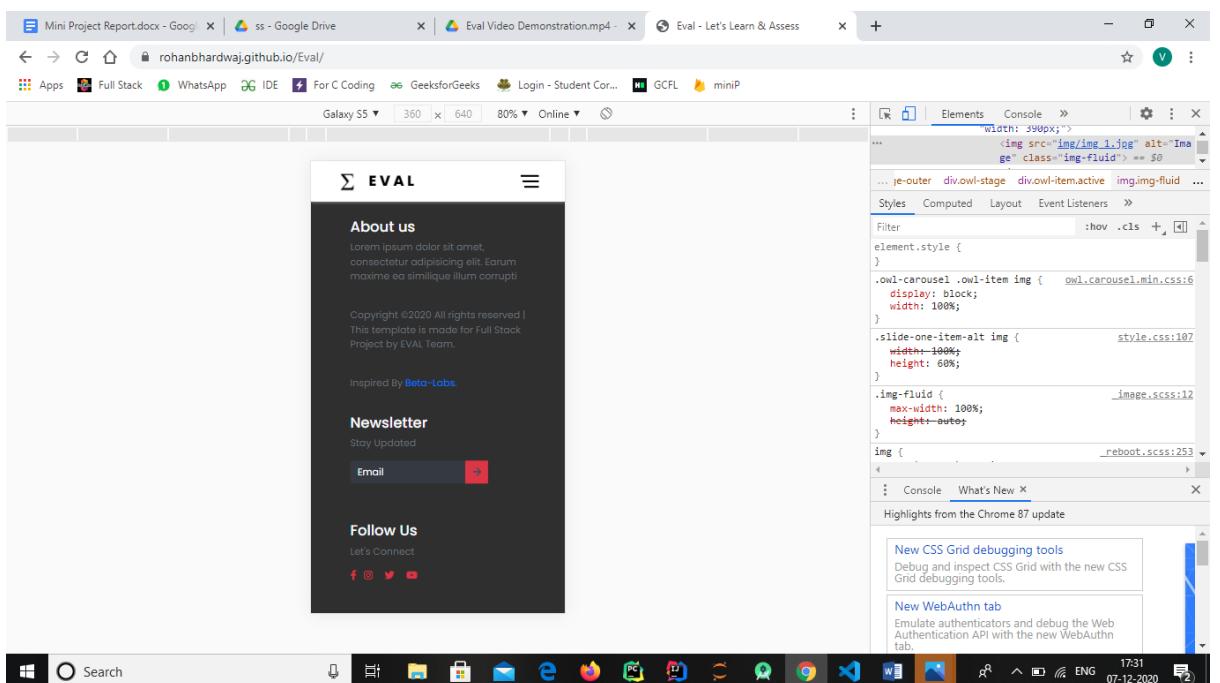
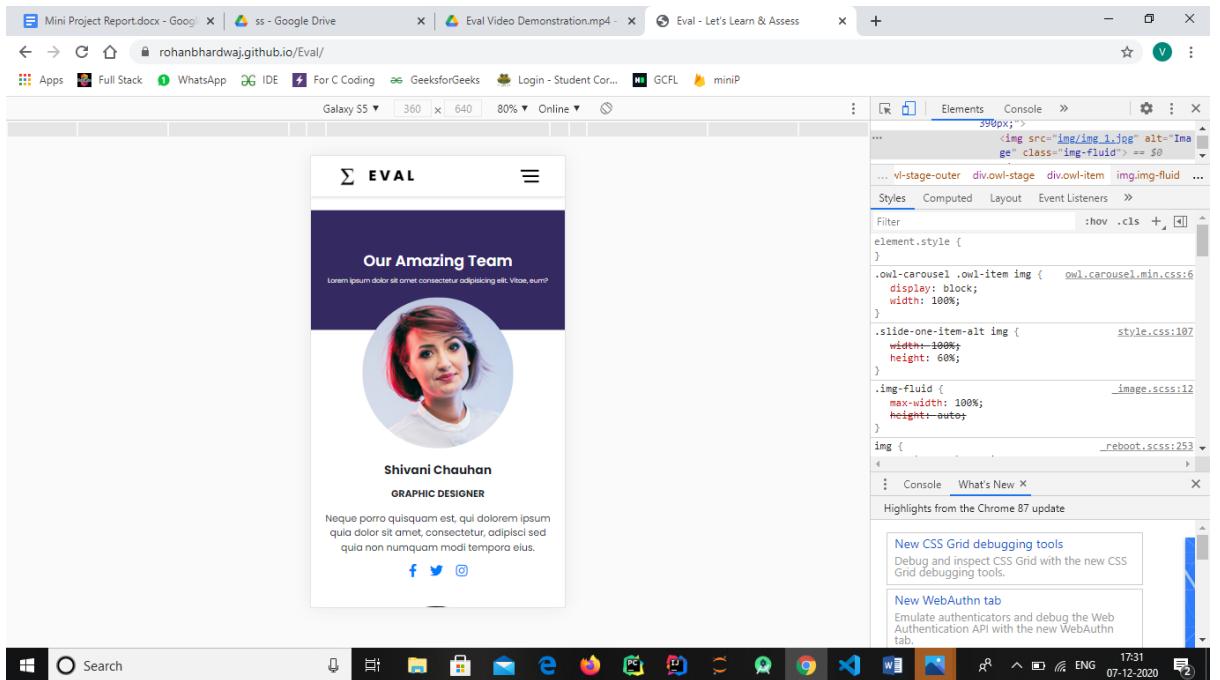
Total Question	8
Attempted	8
Correct	6
Wrong	2
Total	5 / 8

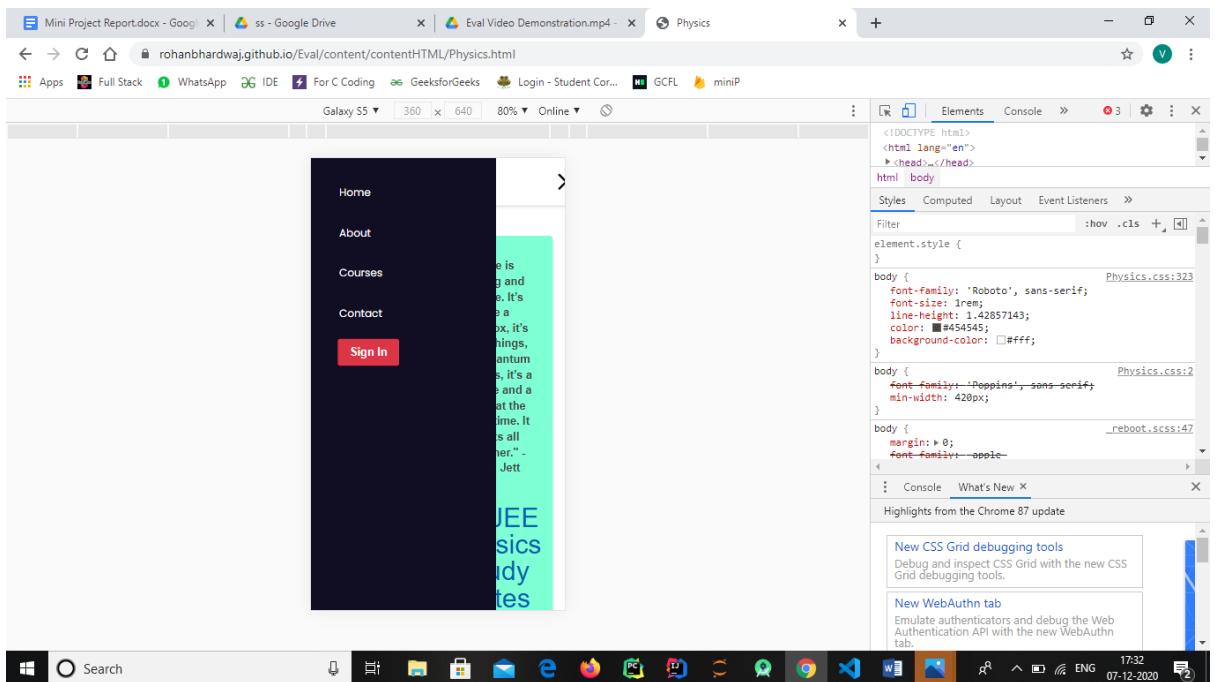
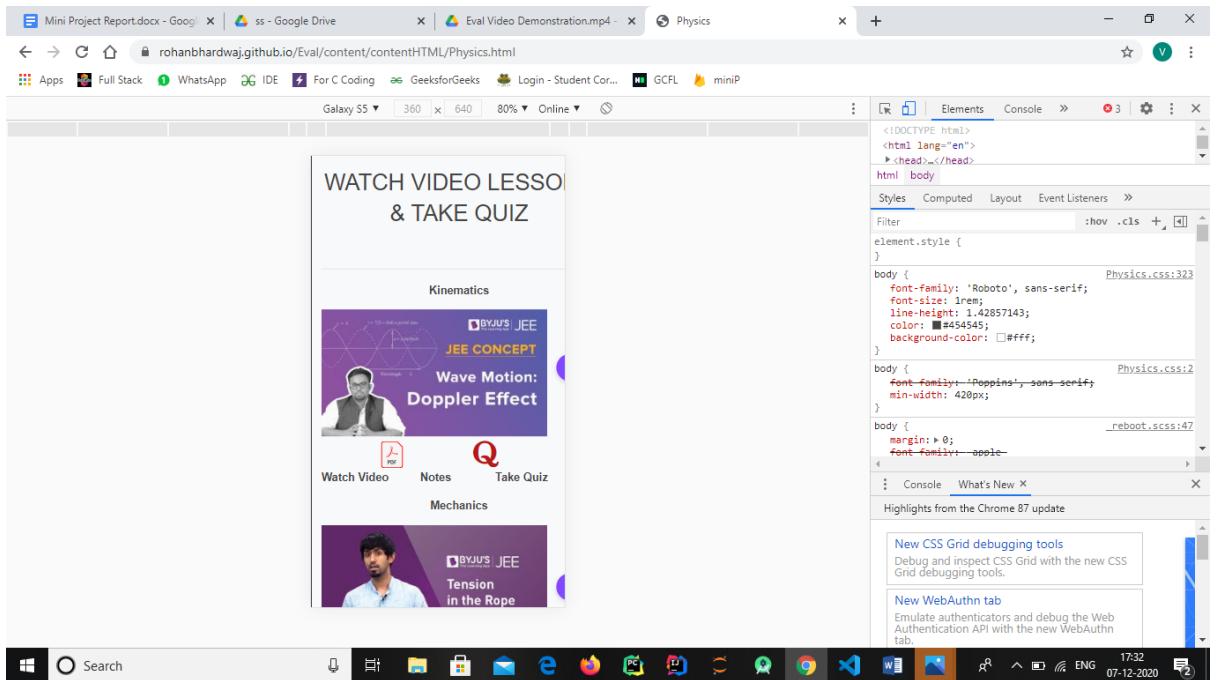
Below the table are two buttons: "Try Again" and "Back To Track". The system status bar at the bottom shows the date and time as "07-12-2020 14:42".











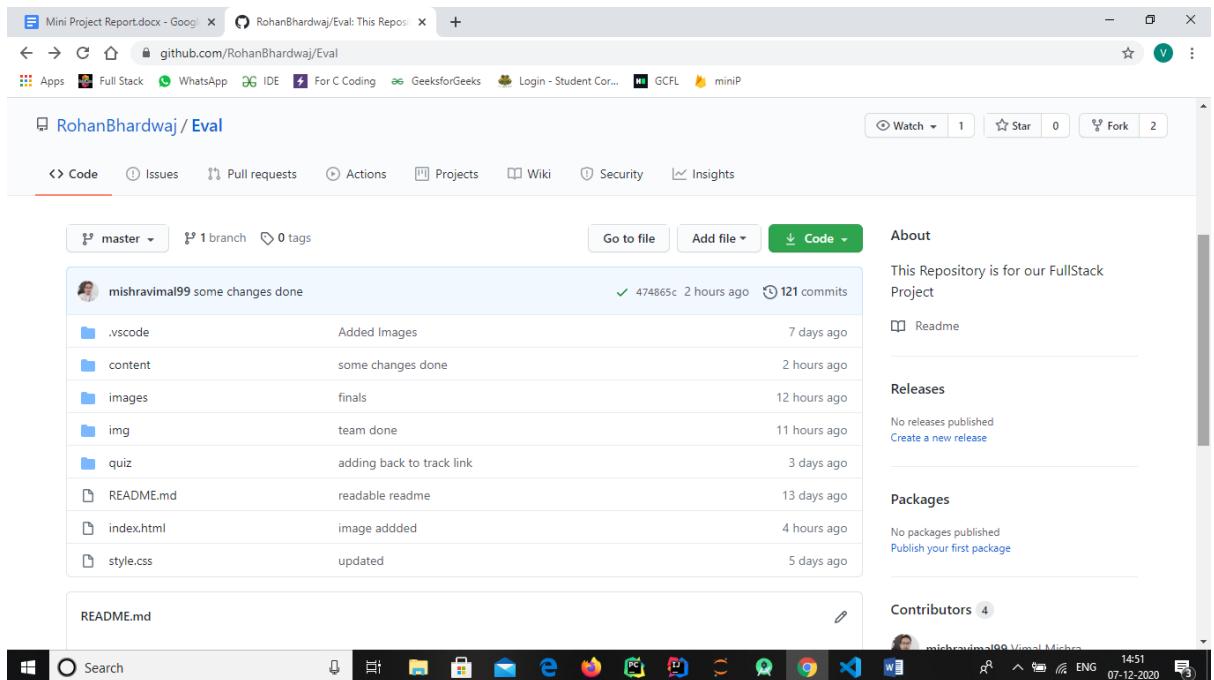
# GITHUB REPOSITORY

**Link of GitHub Repository :**

<https://github.com/RohanBhardwaj/Eval>

**Link of live website :**

<https://rohanbhardwaj.github.io/Eval/>



The screenshot shows a GitHub repository page for 'Eval: This Repository'. The main content is the README.md file, which contains the following text:

## Eval - Let's Learn & Assess

- The project proposes an idea to develop a platform for IIT JEE aspirants to learn, practice and evaluate their skills.
- This website will contain related study materials, video lectures, and mock test series for practice to improve the students' performance

Below the README, there is a section for 'Live website link' with a button labeled 'Eval - Let's Learn & Assess'.

On the right side of the page, there are sections for 'Contributors' (listing four contributors: mishravimal99, RohanBhardwaj, Shivani-781, and VanshikaMahle), 'Environments' (listing 'github-pages' as active), and 'Languages' (a chart showing HTML at 74.0%, CSS at 21.2%, and JavaScript at 4.8%).

At the bottom of the page, there is a navigation bar with links to GitHub's Terms, Privacy, Security, Status, Help, Contact GitHub, Pricing, API, Training, Blog, and About. Below this is a taskbar with icons for various Windows applications like File Explorer, Mail, Edge, and Google Chrome.

## **CONCLUSION**

IIT JEE is indeed one of the toughest examinations in the world. The coaching for JEE is an industry valued at billions of rupees. In order to help the students who cannot afford to get into coaching institutions due to lack of resources, we will create a website for IIT JEE aspirants, utilizing a variety of mark-up & style sheet languages to write web pages required for the theme, and layout design. The project helps to build all aspects of the user experience and user interface for client-facing landing pages. Also, we will optimize the web pages for maximum speed and scalability using various technologies, ensuring web design is optimized for smartphones too.

Engineering aspirants can thoroughly study any topic of Chemistry, Mathematics and Physics for JEE Main and Advanced through this website. Through this website, the impact of the coaching centre on engineering candidates will definitely be reduced. Also, Economically weaker students who cannot afford expensive coaching classes can study through online lecture videos on their mobile or laptop.

## **REFERENCES**

- <https://developer.mozilla.org/en-US/>
- <https://www.freecodecamp.org/>
- <https://www.w3schools.com/>
- <https://getbootstrap.com/docs/4.1/getting-started/introduction/>