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JB Placement Assessment

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Abstract: ***The placement assessment platform is a web-based application designed to facilitate the recruitment process for companies and organizations. The platform provides a user-friendly interface for students to take assessment tests, and evaluate candidate performance. Candidates can also use the platform to create profiles, take mock exams, and attend assessments. the placement assessment platform is an effective solution for organizations of all sizes looking to streamline their recruitment process and identify the most qualified candidates for their open positions. The placement assessment platform is a comprehensive solution for employers to assess the skills and capabilities of job candidates in a standardized and objective manner.***

I. INTRODUCTION

Many students want to use and experience how placement exams are conducted . Many students want to solve previous questions asked by companies . Sometimes our college needs to conduct coding tests for students . Online exams portal is a website which students can use for placement preparation. The web application helps the user and its mission is to offer a quick and easy way to appear for the e-Examination.

The e-Examination system ensures security by allowing only registered users with a valid username and password to access the exam. The exam consists of multiple choice questions with appropriate options. Immediate results are provided upon completion of the exam, allowing users to view their performance.

ReactJS is a popular open-source JavaScript library that is widely used for building user interfaces. Developed by Facebook, it allows developers to build complex and interactive web applications with ease. One of the main advantages of ReactJS is its component-based architecture, which allows developers to create reusable and modular UI components. This means that instead of writing long and complex HTML and JavaScript code, developers can create small and isolated components that can be reused across different parts of the application. This approach makes the development process more efficient and helps to reduce code duplication, making it easier to maintain and update the codebase.

Another notable feature of ReactJS is its ability to work with other libraries and frameworks. ReactJS is a highly versatile JavaScript library that can be seamlessly integrated with a multitude of other tools and libraries. Some popular examples include Redux, which is used for managing application state, GraphQL, which is a query language for APIs, and React Native, which is used for building mobile applications.

By utilizing these tools and libraries with ReactJS, developers are able to build a wide range of applications, including mobile apps and progressive web apps. By utilizing these tools and libraries with ReactJS, developers are able to build a wide range of applications, including mobile apps and progressive web apps. Overall, ReactJS is a powerful and versatile tool that has revolutionized the way developers build web applications. Its component-based architecture, virtual DOM, and flexibility make it an excellent choice for building complex and interactive user interfaces.

Django is a powerful web framework for Python that equips developers with an extensive array of tools and functionalities to build complex web applications rapidly and effectively. It offers many pre-built features, including middleware, templating, database management, URL routing, and more, that can be conveniently tailored to fit specific project requirements. It was originally developed by web developers at the Lawrence Journal-World newspaper, and is now maintained by the Django Software Foundation.

One of the key features of Django is its powerful and flexible Object-Relational Mapping (ORM) system, which allows developers to work with databases in a more intuitive and Pythonic way. The ORM provides an abstraction layer between the database and the application code, allowing developers to interact with the database using Python code, without having to write SQL queries manually. This makes it easier to manage the database and reduces the likelihood of errors.

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II. PROPOSED METHODOLOGY

In the Figure a system is displayed with backend as Django in the center which sends the HTML , CSS pages to the frontend which is React js which then sends back the API requests while the Django retrieves the data from the database which is SqlLite here.
Modules are important to have a precise overview on the development of the project process so that while execution clarity of the next step is maintained. JB Placement Assessment has following modules:

1) Authentication
2) Aptitude
3) Communication
4) Code Editor
5) Results

JB Placement Assessment comprises these three important modules. Below, you will find a detailed explanation of each module.

a) *Authentication:* This module takes the user authentication for the first time user should register from then on the user gives his credentials for login .It provides access control for the system by checking to see if a user's credentials match the credentials in the database of authorized users or in a data authentication server.
b) *Aptitude:* This module is used to conduct an aptitude exam which contains Aptitude questions.
c) *Communication:* This module is used to conduct exams for the users like a communication test where an audio will be played and after completion of the audio questions will be asked based upon the audio.
d) *Code Editor:* This module is used to conduct Coding exams where a programming question will be given and the user has to write code in-order to solve the question and user answered code will be tested for correct output.
e) *Results:* Here in this module the students or users can see the results in the dashboard.

III. LITERATURE REVIEW

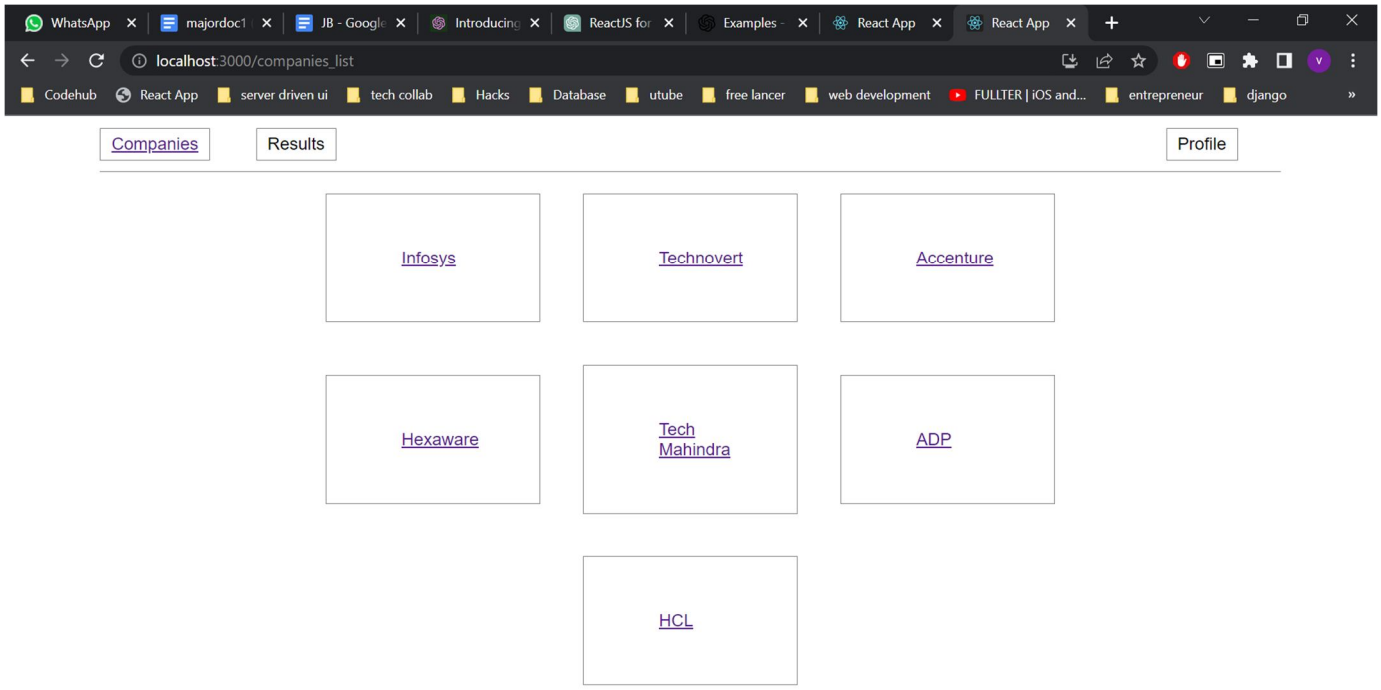
Many different researches have focused on the subject of an online examination system these work can be represented as following:
In the context of SIETTE, to regenerate an adaptive test would mean to create a new version of the test that is adapted to the needs or performance of the individual user, based on their previous answers and feedback provided by the system. The regenerated test would be different from the original test but would still cover the same topics and assess the same learning objectives. This process of regeneration helps to personalize the learning experience and improve the accuracy of the assessment. It can be used for instructional objectives, via combining adaptive student self-assessment test questions with hints and feedback. The authors of the EMS (Exam Management System) paper, Rashad et al., state that SIETTE (an existing exam management system) provides secure login and portability features, but lacks other important features such as resumption capability, multi-instructor support, and various types of randomization (question selection, distribution, and choice distribution). In other words, Rashad et al. suggest that SIETTE is lacking in several key areas that are important for a comprehensive and effective exam management system. (2010) proposed a web-based online examination system called Exam Management System (EMS). EMS manages the examination and auto-grading for students exams and **s**upports conducting exams, answers, specify the exam period, register students ,delete students , show questions for students randomly, calculate and show the final results for students.
Alias et al. (2017) developed an online exam assessment system using open-source platforms. They used PHP and MySQL for the development of the system and tested it on a sample of students. The study found that the system was effective in conducting exams and grading them automatically. Huang et al. (2016) developed an online exam assessment system using cloud computing technology. The system was designed to be scalable and flexible, with the ability to handle a large number of students taking the exam simultaneously. The study found that the system was effective in reducing the administrative burden of exam administration.
Saleh et al. (2018) developed an online exam assessment platform for King Khalid University in Saudi Arabia. The system was designed to be easy to use and accessible to students and instructors. The study found that the platform was effective in improving the efficiency of exam administration and reducing the cost of exams. Alshammari (2019) conducted a literature review of online exam assessment systems. The review included studies on the benefits and challenges of online exam assessment systems and identified several key factors that can impact their effectiveness.
Njoku et al. (2020) conducted a systematic review of online assessment platforms. The review included studies on the effectiveness of various types of online assessment platforms, including platforms for objective and subjective assessments, and identified several key factors that can impact their effectiveness.

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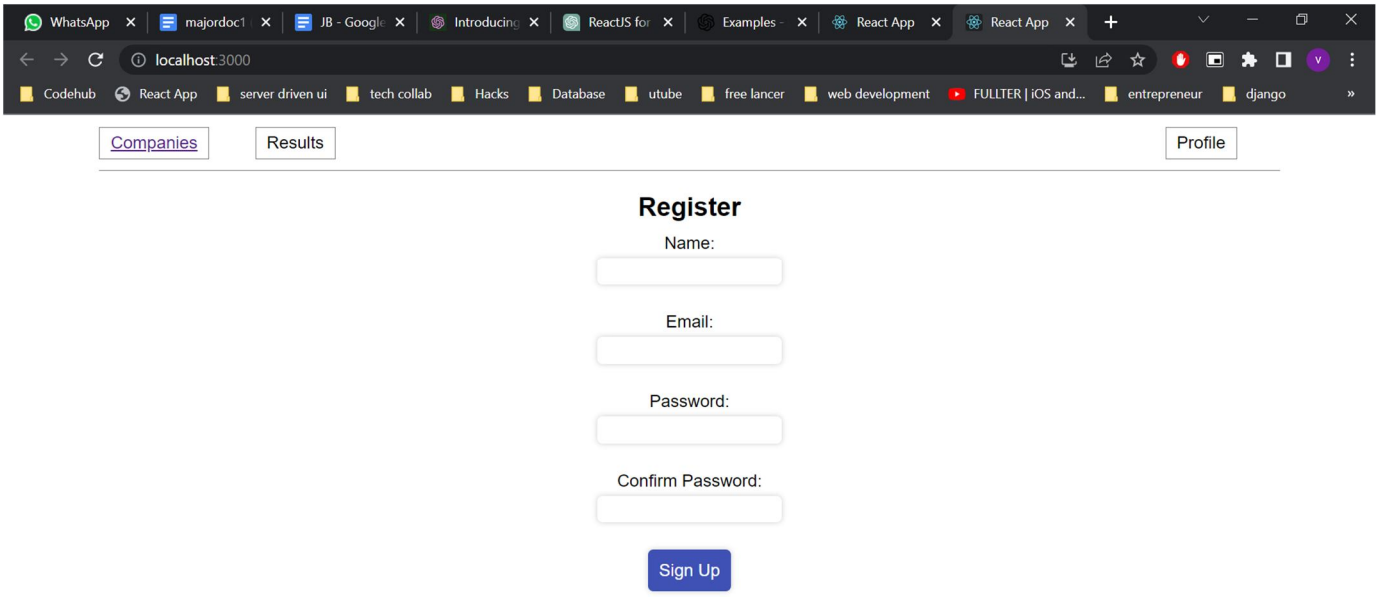
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IV. RESULTS

A. *Home Screen*

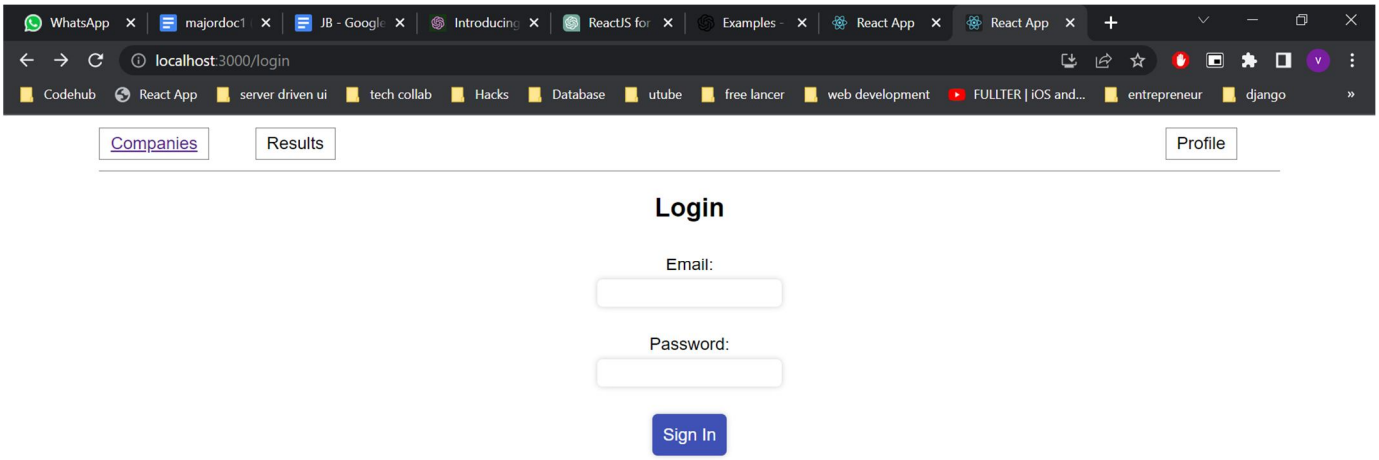


B. *Sign Up Screen*

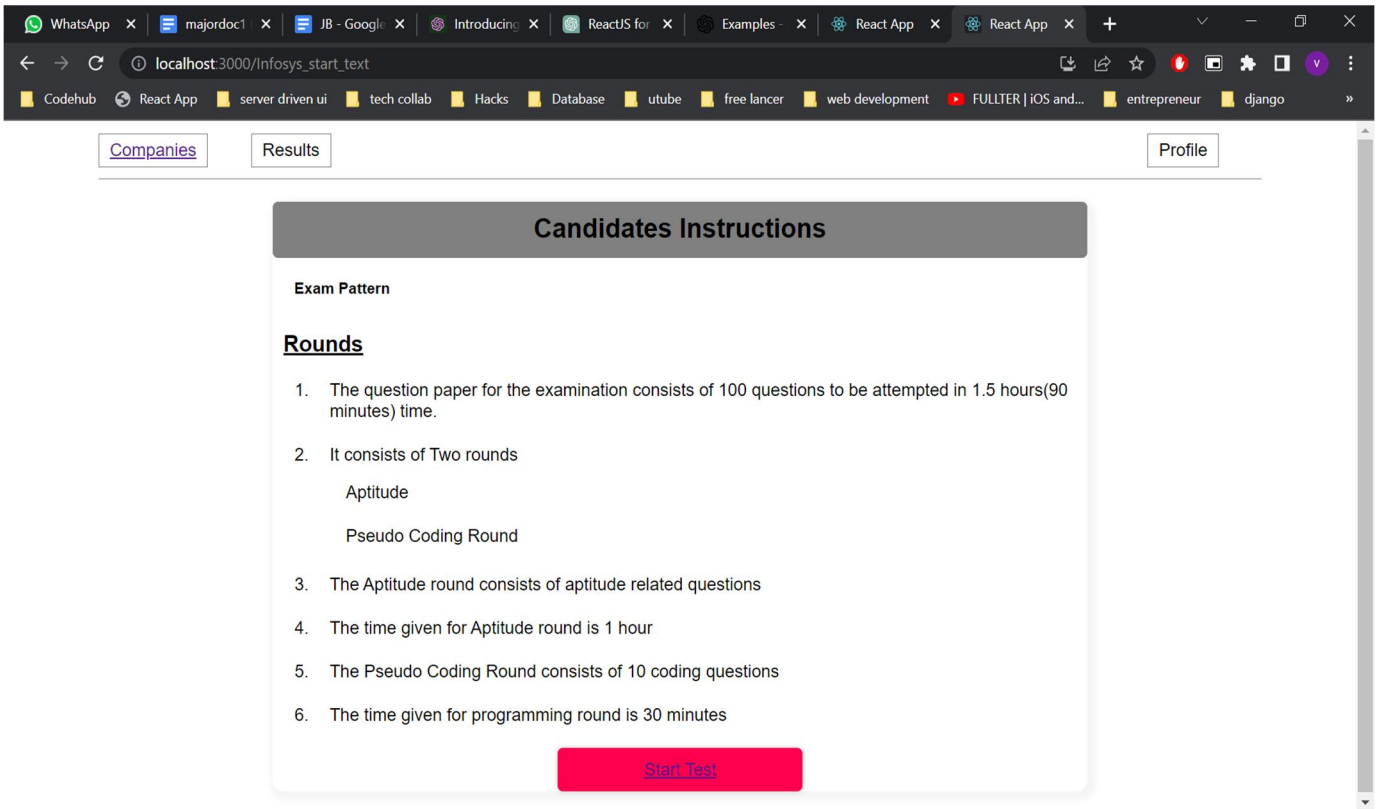


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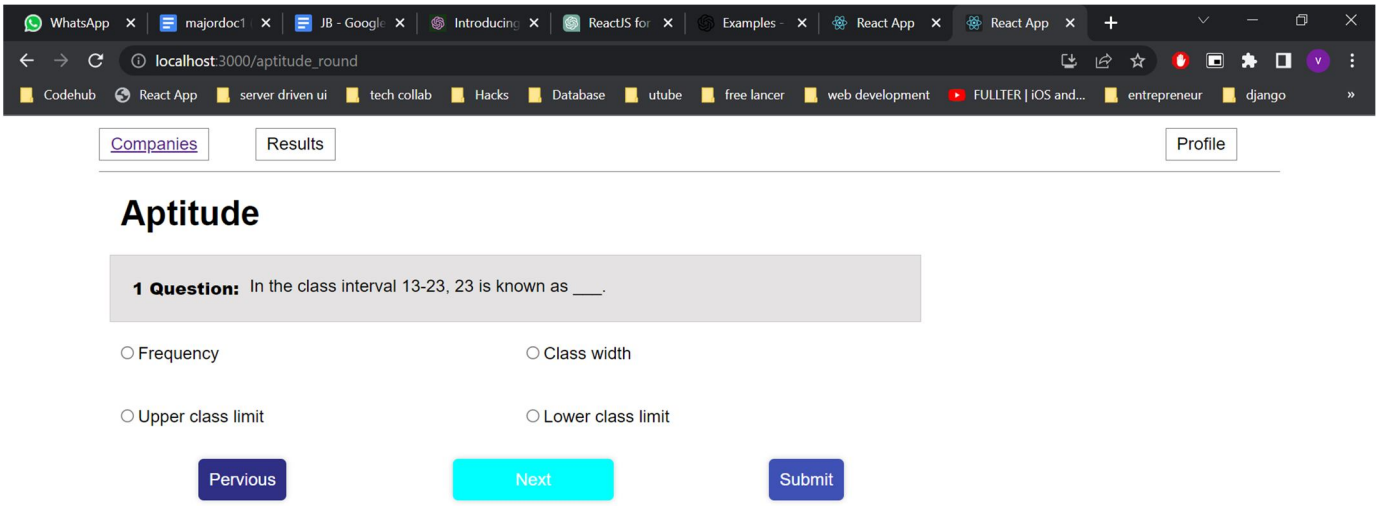
C. Sign In Screen



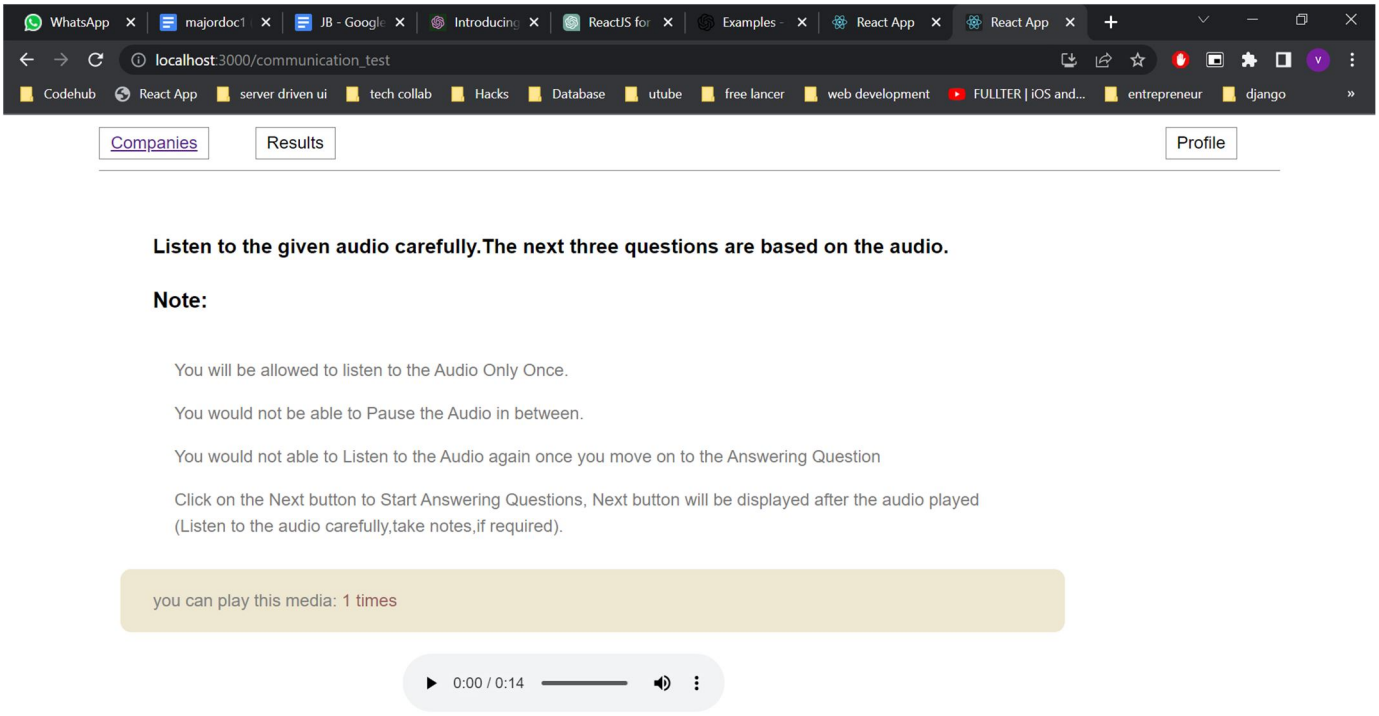
D. Start Test Screen



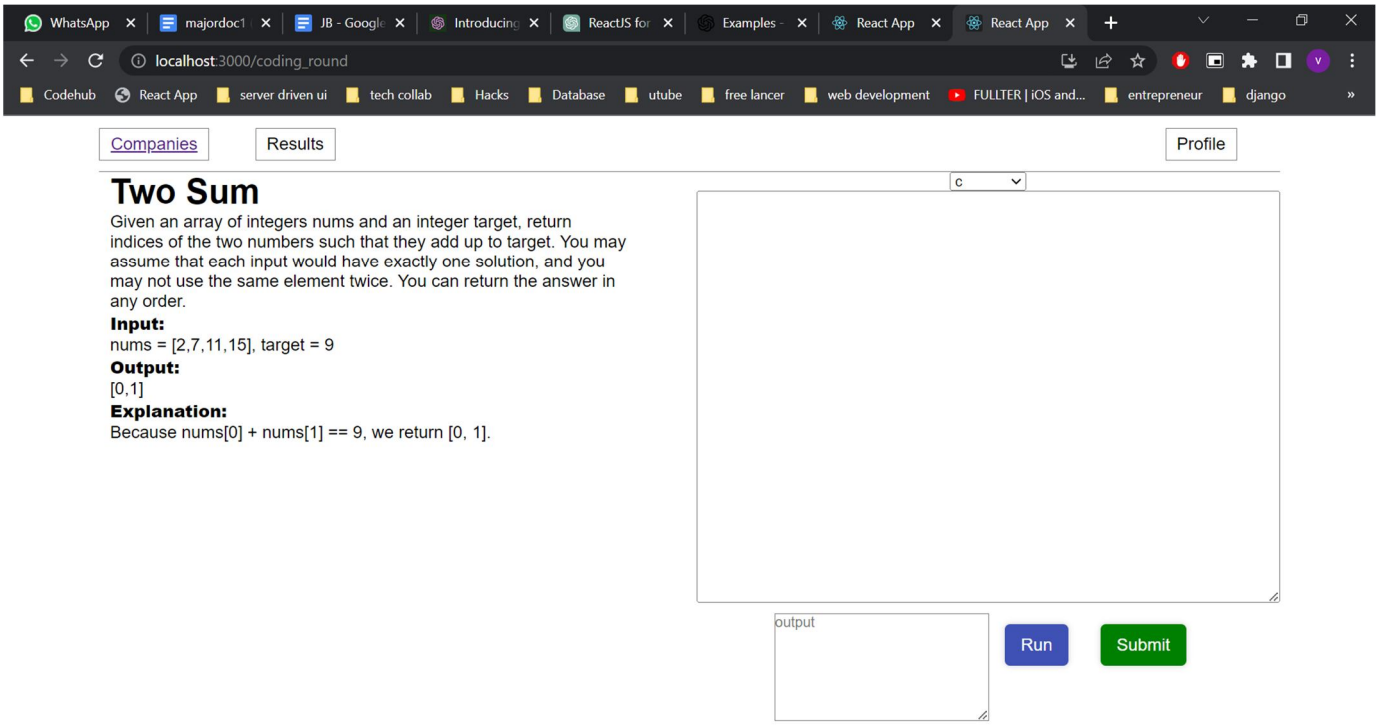
E. Aptitude Exam Screen



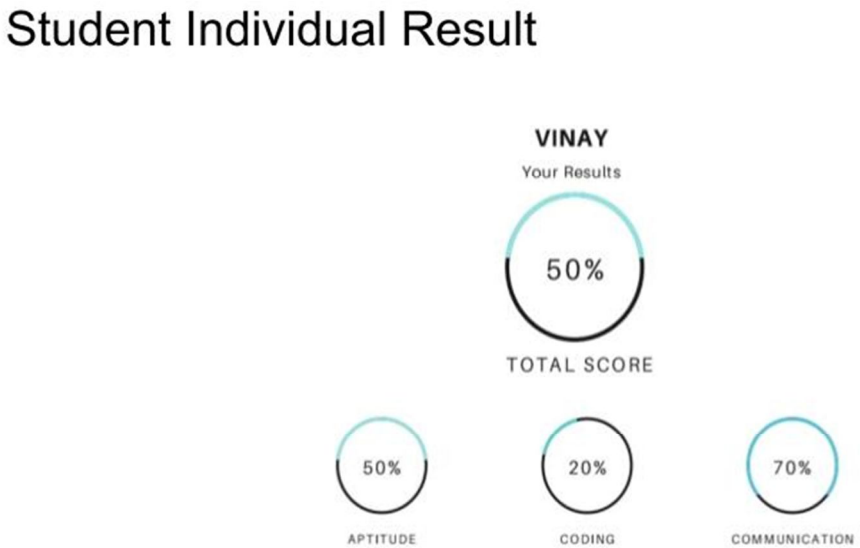
F. Communication Exam Screen



G. Code Editor



H. Student Individual Result Screen



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I. All Students Results

CoCubesId	Name	RollNumbe	Branch	Degree	Batch	Score/800	Aptitude	English	Quantitativ	Analytical	Domain	ıter Fundar	Coding	ritten Engl	Personality	Analyst	r Service E	te Enginee	te Enginee	work Engi	rations Exe	les Executi	ware Devel	ware Engir	ftware Test
3795681	Mylavarapu V G Satwik	19671A02	Electrical a	B. Tech.	2023	662	80 %	80 %	87 %	73 %	40 %	60 %	90 %	74 %	OCEAT	Good to go	Good to go	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go
3795560	Renukuntla Tejaswaroop	19671A04	Electronics	B. Tech.	2023	649	80 %	67 %	100 %	73 %	60 %	80 %	82 %	57 %	ocEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go
3795613	Boora Karthik	19671A19	Electrical &	B. Tech.	2023	641	67 %	47 %	80 %	73 %	75 %	87 %	100 %	84 %	odEAT	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go
3795468	Vaishnavi Loya	19671A05	Computer	B. Tech.	2023	629	64 %	60 %	73 %	60 %	70 %	60 %	93 %	83 %	oCEAT	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go
3795455	Kodam Varshitha	19671A05	Computer	B. Tech.	2023	602	62 %	60 %	60 %	67 %	65 %	53 %	97 %	56 %	ocEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go
3795505	Rangisetty Vishnu Sai	19671A05	Computer	B. Tech.	2023	598	62 %	33 %	67 %	87 %	55 %	67 %	61 %	79 %	UdEST	eed trainir	eed trainir	eed trainir	eed trainir	Good to go	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3795458	Mylavarapu Sai Sri	19671A05	Computer	B. Tech.	2023	596	60 %	73 %	53 %	53 %	65 %	53 %	83 %	73 %	oDEAT	eed practi	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go	eed practi	Good to go	Good to go
3795628	Madugula Vinay	19671A19	Electronics	B. Tech.	2023	596	60 %	60 %	47 %	73 %	45 %	80 %	81 %	63 %	UcEAN	eed practi	Good to go	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go
3795488	Kasoji. Brahmam	19671A05	Computer	B. Tech.	2023	592	62 %	67 %	47 %	73 %	50 %	67 %	38 %	69 %	UdEaT	eed practi	Good to go	eed practi	eed practi	Good to go	Good to go	eed practi	eed trainir	Good to go	Good to go
3795459	Nallabolu Venkata Sai	19671A05	Computer	B. Tech.	2023	589	60 %	60 %	73 %	47 %	45 %	60 %	100 %	61 %	UcEAT	eed trainir	Good to go	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3663030	Sai Lokesh	19671A19	Electrical &	B. Tech.	2023	589	60 %	47 %	80 %	53 %	15 %	67 %	97 %	77 %	ucEAT	eed practi	Good to go	eed trainir	eed trainir	Good to go	eed practi	eed practi	eed practi	eed practi	Good to go
3795593	Yella Kavya	19671A04	Electronics	B. Tech.	2023	583	67 %	60 %	87 %	53 %	75 %	67 %	00 %	75 %	oDEsT	eed practi	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go	eed trainir	Good to go	Good to go
3795485	Gunisetti Ankith	19671A05	Computer	B. Tech.	2023	583	71 %	87 %	53 %	73 %	65 %	67 %	00 %	55 %	uDEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795501	Nadem Krishna Teja	19671A05	Computer	B. Tech.	2023	579	58 %	93 %	53 %	27 %	80 %	60 %	42 %	68 %	OCEAT	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3795453	Jukanti Shivani	19671A05	Computer	B. Tech.	2023	578	58 %	47 %	73 %	53 %	75 %	53 %	43 %	86 %	uCEAT	eed practi	Good to go	Good to go	eed practi	Good to go	eed practi	eed practi	eed trainir	eed practi	Good to go
3795498	Marishetty Abhiram	19671A05	Computer	B. Tech.	2023	577	67 %	73 %	67 %	60 %	60 %	87 %	00 %	59 %	UcEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795726	Battu Ganga Santhoshini	19671A12	Informatio	B. Tech.	2023	577	64 %	53 %	60 %	80 %	70 %	60 %	00 %	66 %	UdEsT	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3673410	Barla Pavan Kumar	19671A02	Electrical a	B. Tech.	2023	577	58 %	33 %	47 %	93 %	35 %	73 %	42 %	86 %	OCEAT	eed trainir	eed trainir	eed trainir	eed trainir	Good to go	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3795508	Shabad Susheel	19671A05	Computer	B. Tech.	2023	576	62 %	60 %	73 %	53 %	35 %	73 %	42 %	67 %	ucEAT	eed practi	Good to go	eed practi	eed trainir	Good to go	Good to go	Good to go	eed practi	Good to go	Good to go
3795752	V. Akhila Sai	19671A12	Informatio	B. Tech.	2023	575	62 %	80 %	40 %	67 %	25 %	73 %	42 %	62 %	UdEST	eed practi	Good to go	Good to go	eed trainir	eed trainir	Good to go	Good to go	Good to go	eed practi	Good to go
3795623	Koppolu Sai Teja	19671A19	Electrical &	B. Tech.	2023	575	67 %	73 %	67 %	60 %	55 %	73 %	10 %	58 %	oCEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795670	Bavoji Sai Sampath Reddy	19671A02	Electrical a	B. Tech.	2023	574	69 %	60 %	80 %	67 %	55 %	60 %	10 %	61 %	OCEAT	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	Good to go	Good to go
3795564	Sanka Sathvik	19671A04	Electronics	B. Tech.	2023	573	58 %	53 %	53 %	67 %	40 %	73 %	57 %	65 %	UCEST	eed practi	Good to go	eed practi	eed practi	eed practi	Good to go	eed practi	eed trainir	eed practi	Good to go
3795549	Lokam Akhilesh	19671A04	Electronics	B. Tech.	2023	572	56 %	53 %	53 %	60 %	50 %	87 %	38 %	88 %	oCEAT	eed practi	Good to go	eed practi	eed practi	eed practi	Good to go	eed practi	eed trainir	eed practi	Good to go
3795492	Kontham Srija	19671A05	Computer	B. Tech.	2023	572	64 %	73 %	60 %	60 %	60 %	40 %	10 %	64 %	UDESt	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	Good to go	eed trainir	Good to go	Good to go
3795435	Boppana Adithya Chowdary	19671A05	Computer	B. Tech.	2023	569	64 %	60 %	73 %	60 %	60 %	60 %	10 %	56 %	UdEAT	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795787	Ganapuram Vinith Reddy	20675A03	Mechanica	B. Tech.	2023	568	64 %	60 %	60 %	73 %	75 %	80 %	00 %	46 %	UdiSN	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795615	Gaddam Varsha	19671A19	Electrical &	B. Tech.	2023	567	60 %	53 %	60 %	67 %	60 %	67 %	43 %	47 %	udEST	eed practi	eed practi	Good to go	Good to go	Good to go	Good to go	eed practi	eed trainir	eed practi	Good to go
3795597	Ravikumar Radhika	20675A04	Electronics	B. Tech.	2023	564	64 %	67 %	67 %	60 %	45 %	40 %	00 %	68 %	UCEST	Good to go	Good to go	eed practi	eed practi	eed practi	Good to go	Good to go	Good to go	eed trainir	Good to go	Good to go
3795684	Punna Ushaswini	19671A02	Electrical a	B. Tech.	2023	564	60 %	73 %	53 %	53 %	50 %	73 %	55 %	29 %	UdeST	eed trainir	eed trainir	eed practi	eed practi	eed practi	Good to go	eed practi	eed trainir	eed practi	Good to go
3795673	C Jahnavi	19671A02	Electrical a	B. Tech.	2023	561	56 %	67 %	33 %	67 %	45 %	27 %	55 %	77 %	uDISN	eed trainir	Good to go	eed practi	eed practi	eed trainir	eed practi	Good to go	Good to go	eed practi	eed practice
3795480	C Bheemesh	19671A05	Computer	B. Tech.	2023	561	60 %	47 %	73 %	60 %	00 %	40 %	94 %	54 %	UdESt	eed practi	eed practi	eed trainir	eed trainir	Good to go	eed practi	Good to go	eed practi	Good to go	Good to go
3795476	Bandari Akhil	19671A05	Computer	B. Tech.	2023	560	33 %	13 %	47 %	40 %	50 %	87 %	10 %	56 %	OcEaT	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3795598	Rizwana	20675A04	Electronics	B. Tech.	2023	560	58 %	60 %	33 %	80 %	50 %	47 %	35 %	75 %	UcEST	eed trainir	Good to go	eed practi	eed practi	Good to go	Good to go	Good to go	eed practi	Good to go	Good to go
3795720	A Bhavani	19671A12	Informatio	B. Tech.	2023	559	58 %	73 %	47 %	53 %	55 %	53 %	10 %	67 %	OCEAT	eed practi	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go	eed trainir	Good to go	Good to go
3795596	Bhukya Vijay Kumar	19671A04	Electronics	B. Tech.	2023	559	60 %	53 %	53 %	73 %	50 %	40 %	43 %	60 %	OdEaT	eed practi	Good to go	eed practi	eed practi	eed practi	Good to go	eed practi	eed practi	eed practi	Good to go
3795705	Bhanuprakash Kummari	20675A02	Electrical a	B. Tech.	2023	557	58 %	60 %	60 %	53 %	50 %	67 %	10 %	88 %	UceAT	eed practi	Good to go	eed practi	eed practi	eed practi	Good to go	eed practi	Good to go	eed trainir	Good to go
3795491	Kondra Prem Kumar	19671A05	Computer	B. Tech.	2023	556	51 %	47 %	47 %	60 %	55 %	60 %	75 %	78 %	oCEST	eed practi	Good to go	Good to go	eed practi	Good to go	eed practi	Good to go	eed practi	Good to go	Good to go
3795592	Yanna Mamatha	19671A04	Electronics	B. Tech.	2023	556	62 %	33 %	80 %	73 %	60 %	60 %	00 %	58 %	UdEst	eed trainir	eed trainir	eed trainir	eed trainir	Good to go	eed trainir	eed trainir	eed trainir	eed trainir	eed training
3795770	Varshit K	19671A03	Mechanica	B. Tech.	2023	554	58 %	80 %	27 %	67 %	00 %	80 %	45 %	63 %	OCEAT	eed trainir	Good to go	eed trainir	eed trainir	Good to go	eed trainir	eed trainir	eed trainir	eed trainir	eed training

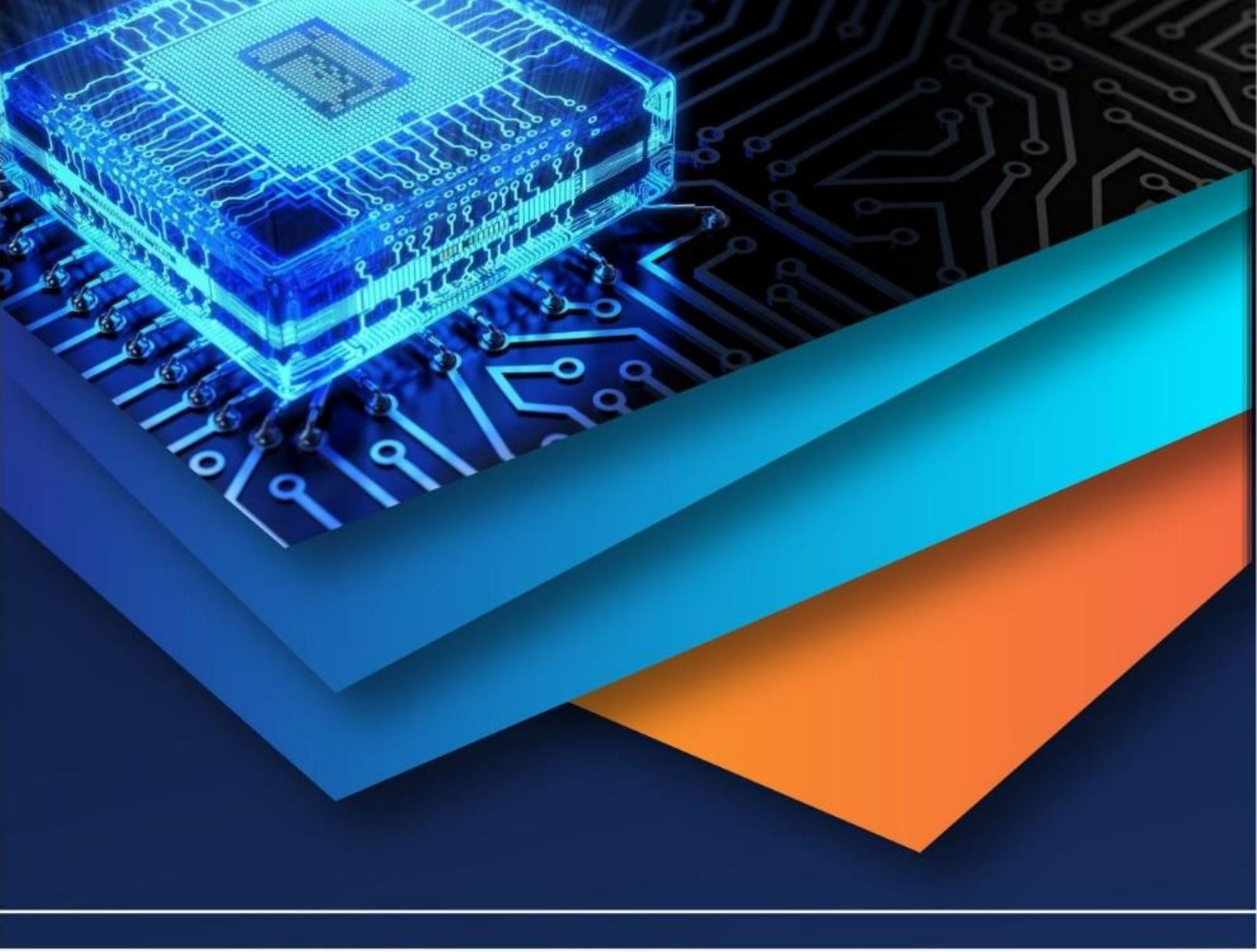
V. CONCLUSIONS

The placement assessment platform is a powerful tool for organizations looking to improve their hiring processes and make more informed, data-driven hiring decisions. By providing standardized and objective assessments of candidate skills and capabilities, the platform helps to reduce biases and increase the accuracy of hiring decisions.

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