VIDYA JUNCTION

A project submitted in partial fulfilment of the requirements for the degree of
Bachelor of technology in computer science
As a part of "web programming" course by

AYUSH SENGAR (220486)

ADITYA AGARWAL (220480)

YOGESH SHARMA (220465)

HARDIK PANDEY (220458)

UNDER THE SUPERVISION OF

DR. P PRASANT

SCHOOL OF ENGINEERING AND TECHNOLOGY

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CANDIDATE' S DECLARATION

We, as a group hereby declare that the project entitled Vidya Junction in fulfilment of completion of the 3rd - Semester Course – Web Programming as part of the Bachelor of Technology (B. Tech) program at the School of Engineering and Technology, BML Munjal University is an authentic record of our work carried out under the supervision of Dr. P Prasant. Due acknowledgments have been made in the text of the project to all other materials used. This project was done in full compliance with the requirements and constraints of the prescribed curriculum.

Yogesh Sharma – 220465
Ayush Sengar – 220486
Aditya Agarwal – 220480
Hardik Pandey – 220458
Place: BML Munjal University
Date: 3rd December 2023

SUPERVISOR' S DECLARATION

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Faculty Supervisor Name: Dr. P Prasant
Signature:

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INTRODUCTION

The purpose of this report is to advocate for a transparent and collaborative approach to enhancing the education system in India, under the initiative named 'Vidya Junction.' The goal is to contribute to the improvement of government schools by addressing the current challenges they face. In an era where education stands as a powerful tool for transformation, 'Vidya Junction' seeks to play a pivotal role in fostering positive change. This report sheds light on the existing educational system in government schools, emphasizing the need for improvement and the challenges faced by educators. The initiative aims to provide support rather than revolutionize, working collaboratively to bring about positive shifts in the education system.

In the rapidly evolving landscape of education, the integration of technology has become crucial in allowing efficient communication and improving the learning experience. Vidya Junction's mission is to simplify daily classroom activities, promote interactive learning, and provide a platform of valuable feedback. The report goes into the portal's conception, design, and implementation, showcasing essential features such as user identification, attendance management, daily class engagement, and a robust feedback system. Through the development of this portal, we aspire to contribute to the digitalization of education, fostering a dynamic and engaging environment for both educators and students alike.

What truly sets Vidya Junction apart is its commitment to fostering an interactive learning experience. Beyond traditional attendance tracking, our platform enables teachers to document daily topics and share resources, creating a dynamic digital environment that facilitates active participation from both educators and students.
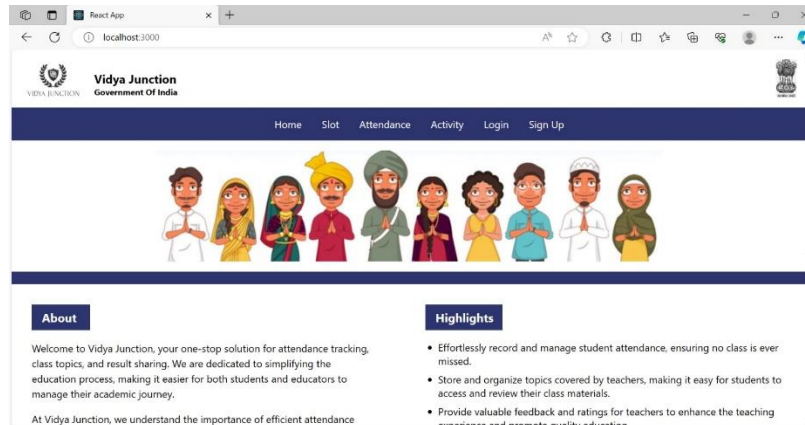
Furthermore, Vidya Junction is not merely a solution for the present; it is a platform geared towards the future. Vidya Junction serves as a catalyst for transformation in government schools, ushering in a new era of collaborative and engaging learning experiences.

TOOLS USED:

- <u>Designing:</u> Figma

- <u>Layout:</u> HTML, CSS

- <u>Frontend Libraries:</u> React

- <u>Backend Libraries</u>: Mongo dB

- <u>Framework:</u> JavaScript

ABOUT THE WEBPAGES

Home page

The webpage is for an educational app called Vidya Junction. The website appears to be a comprehensive solution for managing various aspects of the educational process. It offers features for attendance tracking, class topics, and result sharing, aiming to simplify the education process for both students and educators.
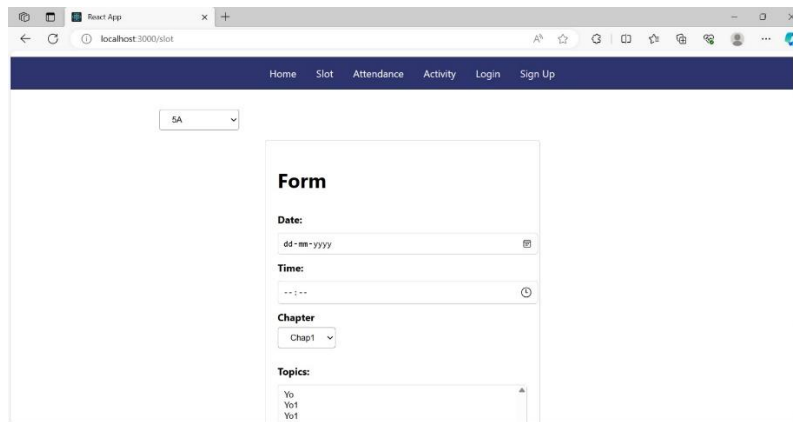
The website design is clean and user-friendly, with a blue header featuring the app's logo and a search bar. The main banner showcases illustrations of diverse students and teachers, reflecting the inclusivity of the platform. The website also includes an "About" section that provides a brief description of the app and its features, and a "Highlights" section that lists the key features of the app.

On the center of the navigation bar, a series of neatly aligned options are listed, each denoted with a corresponding label, each option redirects to their respective webpages. The options are listed below:
1. Home
2. Slot
3. Attendance
4.Activity
5. Login
6. Signup

Overall, Vidya Junction seems to be a dedicated platform that makes it easier for students and educators to access and review their class materials. It could be a valuable tool for educational institutions looking to streamline their processes and enhance the learning experience.
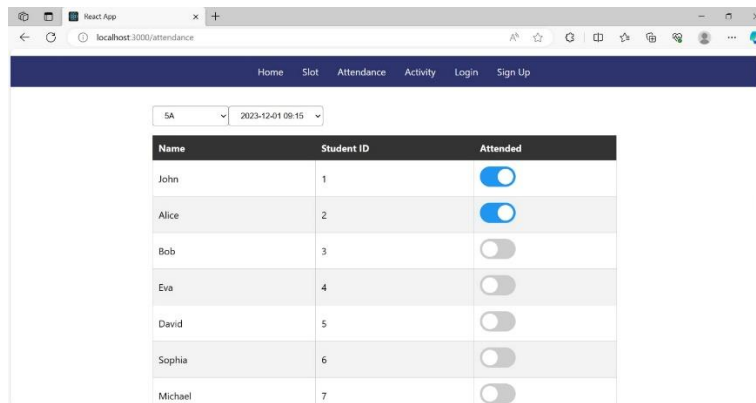
Slot

The webpage appears to be a form on an educational platform. The form is neatly laid out in the center of the page with a clean white background, providing a user-friendly experience. It contains fields for date, time, chapter, and topics, which suggests that it could be used for scheduling classes or planning lessons.

The date field is a text input with a placeholder of "dd-mm-yyyy", indicating the expected format for the date. Similarly, the time field is a dropdown with a placeholder of "hh:mm", showing the expected format for the time. The chapter and topics fields are text inputs with placeholders of "Chapter 1" and "Topic 1" respectively, suggesting that users can input the chapter and topics to be covered in a particular class or lesson.

The website itself has a blue header with a search bar and a menu, providing easy navigation for users. The footer contains social media icons, indicating that the platform has a presence on social media platforms. Overall, the webpage seems to be well-designed and functional, catering to the needs of educators and students alike.

Attendance

The webpage appears to be a school attendance system built with React. The page is titled "React App" and features a blue header with the title "Attendance" and a search bar, suggesting that it's designed for tracking and searching student attendance records.
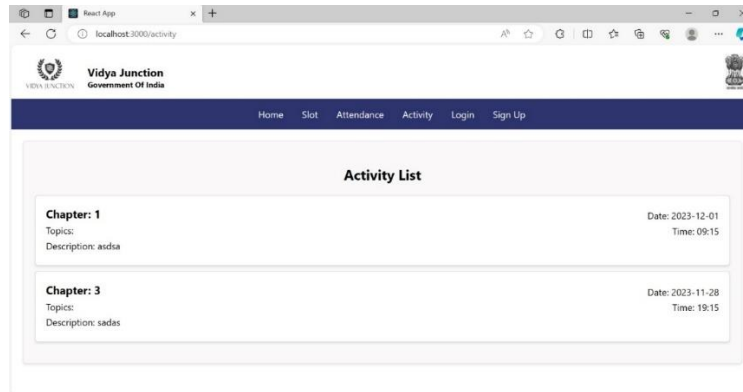
The main feature of the page is a table with columns for "Name", "Student ID", and "Attended". The table lists six students: John, Alice, Bob, Eva, Sophia, and Michael, each with a unique student ID. The "Attended" column has toggle switches, which likely allow the user to indicate whether each student has attended class.

At the bottom of the page, there are "Clear" and "Submit" buttons, presumably for resetting the form and submitting the attendance data, respectively.

Overall, this webpage seems to provide a straightforward and efficient way for educators to track student attendance. Its clean design and intuitive interface likely make it easy to use, while the use of React suggests it could offer a responsive and dynamic user experience.

Activity

The page is designed with a clean and straightforward layout, featuring a blue
header that prominently displays the title "Activity List". This suggests that the
page provides a list of activities related to a course or class.

The page also includes a navigation bar with links to various sections such as
home, attendance, activity, login, and sign up, indicating that it's a comprehensive
platform catering to various needs of the users.

The main content of the page consists of two chapters, each accompanied by a
date, time, and description. For instance, Chapter 1, dated 2021-12-01 and timed at
09:15, has a brief description. This structured presentation of information makes it
easy for users to track their progress and stay updated with their course activities.
Overall, the webpage appears to be a user-friendly and efficient tool for
educational purposes.

PURPOSE OF VIDYA JUNCTION

The purpose of the "Vidya Junction" project is to revolutionize the education system in government schools in India. The project aims to address current challenges faced by these schools, including resource disparities, inadequate teacher training, and instances of malpractice. By introducing a multifaceted initiative, "Vidya Junction" seeks to:

Enhance Educational Quality: By providing essential resources like textbooks, teaching aids, and digital materials, "Vidya Junction" aims to elevate the quality of education in government schools.

Empower Teachers: Through targeted training programs, the project intends to equip teachers with modern pedagogical techniques, subject-specific proficiency, and classroom management skills. This empowers educators to deliver high-quality instruction.

Establish Accountability Measures: The project will implement transparent monitoring systems, leveraging technology to track attendance, evaluate teaching performance, and detect instances of malpractice. This fosters a culture of accountability and integrity among educators.

FEATURES AND BENEFITS OF VIDYA JUNCTION

1. ## Resource Allocation:
   - "Vidya Junction" allocates funds for the procurement of essential educational resources, including textbooks, teaching aids, and digital materials.
   - This ensures that each government school has access to standardized materials.

2. ## Transparent Monitoring System:
   - Vidya Junction implements a transparent monitoring system, leveraging technology to track attendance, evaluate teaching performance, and detect instances of malpractice.

3. ## Elevated Education Quality:
   - By providing essential resources and training to teachers, Vidya Junction significantly improves the quality of education delivered in government schools.

4. ## Improved Student Outcomes:
   - With enhanced educational quality, teacher empowerment, and increased accountability, students in government schools under Vidya Junction are likely to experience improved learning outcomes and academic performance.

5. ## Increased Accountability:
   - The transparent monitoring system holds educators accountable for attendance, performance, and integrity. This leads to a more responsible and dedicated teaching workforce.

IMPACT AND FUTURE PLANS

IMPACT: "Vidya Junction" is poised to bring about positive transformations, encompassing improved infrastructure, enhanced resources, and elevated teacher quality. These collective enhancements will contribute to raising the standard of education in government schools, guaranteeing that students benefit from a more comprehensive and enriching learning experience.

FUTURE GOALS: As "Vidya Junction" evolves and matures, several future goals can be set to ensure its sustained impact:

1. **Quality Assurance:** Continuously monitor and assess the quality of education delivered, seeking ways to enhance it further.

2. **Innovation in Education:** Promote and support innovative teaching methods, curriculum design, and assessments to keep pace with global education trends.

3. **Public-Private Partnerships:** Collaborate with private sector organizations, NGOs, and philanthropic institutions to bring additional resources and expertise into the education system.

4. **Parental Engagement:** Continue to involve parents in their children's education and develop strong home-school partnerships.

<u>CONCLUSION</u>

Vidya Junction transcends the boundaries of a mere project; it embodies a progressive idea crafted to contribute to a brighter future for India. Through this initiative, our aim is to address the challenges within government schools, promote transparency, and ensure that every child in the nation has access to quality education—a potent force for societal transformation. It serves as a collective call to action, urging all stakeholders to join hands in turning this vision into a tangible reality. Together, let us pave the way for a more promising and equitable future for India.

FIGMA DESIGN

LINK:

https://www.figma.com/file/QkU1TQYmg38rxFsqoasr2c/
Website?type=design&node
id=0%3A1&mode=design&t=ZFaig1uyCM3fiD5i-1