

Project Report

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Program Name	Full Stack Web Development (Mentor Led)

Project - 1

Name of the Project: Tribute page on APJ Abdul Kalam

Tools Used: *(Mention the tools used in this project)*

- HTML, CSS, JAVASCRIPT

Working Procedure: *(Answer in 200 words with bullet points)*

- Gather information on APJ Abdul Kalam life, achievements and covering important milestones in Kalam's life.
- Select the main key point (biography, achievements, quotes, photo gallery) for the tribute page.
- Gathered information on biography Listed some major achievements and contributions to science and society.
- Collected high-quality images for image gallery.
- Chosen suitable colour scheme and font style for the tribute page.
- Used HTML, CSS, and JavaScript to build the front end of the page.
- Tested the page on different browsers to ensure compatibility and responsiveness.
- Fixed the bugs and issues that arise during testing. The Tribute page is working all ok.

Learning Outcomes: *(Answer in 100 words with bullet points)*

- Enhanced skills in HTML and CSS by designing and structuring the tribute page.
- Used basic design concepts to produce a layout that is visually aesthetic.
- learned how to make the page responsive so that it can be seen on a variety of devices.
- Gained ability in properly presenting biographical material by emphasizing significant accomplishments and turning points
- Enhanced problem-solving abilities through the diagnosis and debugging of code problems

- finished tribute page on APJ Abdul Kalam from beginning to end, which gave me more confidence in front-end web programming.
- Given my best effort to ensure that the design is accurate and consistent.

Project - 2

Name of the Project: Developing Result Management System

Tools Used: *(Mention the tools used in this project)*

- **Front-end - HTML, CSS, JavaScript, React**
- **Back-end - Node Js**
- **Database Management - MongoDB**

Working Procedure: *(Answer in 200 words with bullet points)*

- Developed sign-in and sign-up features for administrators and students. implemented safe password validation and storage.
- The administrator can manage and update all data since they have complete access to the system. Admin has the ability to add, amend, and remove marks, attendance records, fees, notifications, and other relevant student data.
- Students are able to check their grades by semester. Each student's results for both internal and external examinations are visible.
- Students can review the admin's posted notices.
- Students can see their attendance records.
- Students get access to fee data and payment status.
- All data was stored in MongoDB, allowing for effective data storage and retrieval.
- Node.js manages server-side functionality, facilitating efficient front-end and database connectivity.
- Using React, I designed user interface that gives administrators and students a smooth experience.
- Design was responsive so that it could be used on a range of devices.
- Performed many testing to identify and fix bugs.
- Put security measures in place to guard user information and stop illegal access.

Learning Outcomes: *(Answer in 100 words with bullet points)*

- My skill improved by developing sign-up and sign-in features for administrators and students.
- Features that provide administrators access to all functions while limited access to student only student access to marks, notices, attendance, fees, and internal/external marks have been implemented.
- Improved experience in JavaScript, HTML, CSS, and React to create interactive and responsive user interfaces.
- Gained experience managing databases and server-side operations using Node.js and MongoDB.
- Completed a complicated system with several user roles and features, which improved project planning and execution skills.
- Enhanced problem-solving abilities through the diagnosis and debugging of code problems.
- Given my best effort to ensure that the design is accurate and consistent.
- Front-end and back-end elements were successfully merged to create a best result management system.

Project - 3

Name of the Project: Developing Performance Management System using MERN Stack

Tools Used: (*Mention the tools used in this project*)

- **Front-end - HTML, CSS, JavaScript, React**
- **Back-end - Node Js, Express.js**
- **Database Management - MongoDB**

Working Procedure: (*Answer in 200 words with bullet points*)

- Developed sign-in and sign-up features for administrators, students and parents. (JSON) was used to implement secure login and registration.
- All system features are fully accessible to administrators.
- Students have access to notifications, attendance, fee information, internal and external grades, and marks for each semester.
- Exam results, payments, notifications, and student attendance may all be viewed by parents.
- Developed separate sections for admin, students, and parents with specific access rights.
- The administrator can amend class schedules, add new teachers, and oversee student admittance. In the class announcement area, the administrator can upload details.
- Integrated a payment section for students to pay university fees online.
- Students have access to view their grades for both internal and external exams. Students get access to announcements about their coursework and attendance data.
- In addition to seeing alerts, parents may keep an eye on their child's attendance, fee status, and exam results. made it easy for parents to obtain relevant information using a user-friendly interface
- A bus transport area has been added to manage and see travel details. The administrator may now handle issues with library books and bus transportation information. Created a library section to handle the library's offline book loans.
- Front-end and back-end components integrated to provide smooth communication
- Performed extensive testing to find and address issues and guarantee a seamless user experience.
- Continuous maintenance and monitoring were put in place for maximum security and performance. Install security measures to protect user data and prevent unauthorized access.

Learning Outcomes: *(Answer in 100 words with bullet points)*

- Enhanced skills in HTML, CSS, JavaScript, and React for building user interfaces.
 - Gained skills using Node.js, Express.js, and MongoDB for server-side and database management.
 - Created safe sign-up and sign-in options for administrators and students.
 - Access restrictions were put in place so that the administrator could oversee everything and students could check grades, notifications, attendance, fees, and test results.
 - Admin is now able to submit class announcements and schedules, add new instructors, and manage student admissions.
 - Included an area where students may pay their university tuition online.
 - Gave parents access to a part where they could verify test results, fees, notifications, and student attendance.
 - Included sections for libraries and bus transportation to handle book loans and transportation information.
 - Front-end and back-end elements were successfully merged to create a best result
- Developing Performance Management System.