

## Project Training and Project Preparation Report on MERN Stack and Laravel

- The Project training which is a compulsory component of BCA programme has to be completed by the students in their 6<sup>th</sup> semester. So, keeping pace with the technology, the tools chosen this year was Mern and Laravel. The students are provided with hands-on experience in developing full-stack web applications using both the MERN stack and Laravel.
- **Duration:** 28 working days: 4 weeks (22 April 2024 – 30<sup>th</sup> May 2024)
- **Participants:** 51 BCA students

### About Technologies

- **MERN Stack:**
  - **MongoDB:** NoSQL database for storing application data.
  - **Express.js:** Web application framework for Node.js.
  - **React.js:** Front-end library for building user interfaces.
  - **Node.js:** JavaScript runtime for server-side programming.
- **Laravel:**
  - **PHP:** Server-side scripting language.
  - **Laravel Framework:** PHP framework for web application development.
  - **Blade:** Templating engine for Laravel.
  - **Eloquent ORM:** Object-relational mapper for database interactions.

After completing the training, a group of 5-6 students were formed and they prepared a web based application using MongoDB, Express.js, React.js, Node.js, Laravel, PHP tools. The list of the student and their project work is as such:

### Doctor Appointment System:

- Shubham Kumar Sinha
- Ritik Roshan
- Rahul Kumar
- Manikant Pandey
- Shiv Pratap Singh
- Saroj Kumar

### Gym Management System:

- Ashutosh Ranjan
- Md Raza Hussain
- Ajit Kumar
- Md Ashfaque
- Aditya Pathak

### **Hotel Management System:**

- Bhawna Pandey
- Anisha Verma
- Ishika Sharma
- Ankita Kumari
- Aakriti Burman

### **Job Portal System:**

- Bhawna Pandey
- Anisha Verma
- Ishika Sharma
- Ankita Kumari
- Aakriti Burman

### **Library Management System**

- Md Farhan Khan
- Nikhil Gupta
- Sweta Rani
- Akshay Kumar
- Neha Kumari
- Md Tahseen Khan

### **Online Learning Management System:**

- Chitranjan Kumar Gupta
- Rahul Kumar Mandal
- Bini Pandey

- Suraj Kumar Mahato
- Amit Kumar Mahto

### **Online Voting System:**

- Ankan Kumar Dey
- Shivam Rawani
- Avinandan Bhandari
- Mayank Kumar
- Abhishek Kumar
- Md Adnan Azad

### **Portfolio CMS:**

- Gautam Lohani
- Sushant Kumar Verma
- Aditya Prakash Singh
- Prakash Kumar Mahato
- Ujjwal Kumar
- Amit Kumar Jha
- Himanshu Sharma

### **Real Estate Management**

- Shilpi Kumari
- Shubham Kumar
- Subham Aditya Singh
- Honey Kumari
- Rohit Mukherjee

The training successfully equipped students with essential skills in both MERN stack and Laravel development, preparing them for future career opportunities in web development. Continuation of such practical training programs to keep students updated with the latest technologies and frameworks.