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#### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

### "Report on 8-Hours Hackathon on MERN Full Stack Technologies"

**Event Type** : Hackathon

Date : 13th September 2025

**Venue** : Data Base Innovation & Computational Engineering

Labs

Chief Guest & Evalutaor : Mr. R. Abhishek,

**Executive Director at Skelo** 

&

CEO/Co-founder at Leantech Labs

Name of the Convener : Dr. S. Nagarjuna Reddy,

Professor & Head Department of CSE

Name of the Co-ordinators(s) : Dr. D. Veeraiah, Professor, Dept. of CSE

Dr. Y. Vijay Bhaskar Reddy, Professor, Dept. of CSE

Name of the Co-Coordinators(s): Dr. K. Devi Priya, Professor, Dept of CSE

**Dr. N. V. Mahalakshmi**, Assoc.Prof, Dept of CSE **Dr. B. Swanth**, Assoc.Professor, Dept of CSE

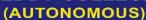
Mr. N. Srinivasa Rao, Sr.Asst.Prof, Dept of CSE Mr. N. Srikanth, Sr.Asst.Prof, Dept of CSE Ms. P. Sarala, Sr.Asst.Prof, Dept of CSE Mr. O. Venkata Siva, Sr.Asst.Prof, Dept of CSE Mr. Md. Amanatulla, Asst.Prof, Dept of CSE

**Targeted Audience** : B.Tech III Sem CSE Students

**Total No. of Students** : 31 Teams (160 Students)



### LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING



8 Hours Hackathon on

### MERN FULL STACK TECHNOLOGIES



Organized by Department of

On 13-9-2025 At 9 am to 4. pm @ DBI Lab & C<u>E Lab</u>



The Department of Computer Science & Engineering organized an 8-Hours Hackathon on MERN Full Stack Technologies to provide students with hands-on experience in real-time problem solving using MongoDB, Express.js, React.js, and Node.js. The event aimed to enhance teamwork, coding skills, and industry readiness among students.

### **Objectives of the Hackathon**

- To apply MERN stack technologies in developing full stack applications.
- To encourage team-based problem solving and collaboration.
- To provide students with **industry-oriented tasks** under expert guidance.
- To build **front-end**, **back-end**, **and integration skills** in a limited timeframe.
- To foster innovation and competitive spirit through evaluation and recognition.

#### **Event Structure**

- Students were divided into groups of minimum 5 members per team.
- The hackathon was divided into **three phases**, each lasting one hour, focusing on:
  - 1. Front-End Development (React.js)
  - 2. Back-End Development (Node.js & Express.js)
  - 3. **Integration with Database** (MongoDB)
- After each phase, the **resource person and internal evaluators** evaluated the progress of every team.
- Continuous mentoring and guidance were provided throughout the event.

#### **Evaluation Criteria**

Teams were evaluated based on:

- 1. Code Quality & Functionality
- 2. UI/UX Design and Creativity
- 3. Backend Logic & API Implementation
- 4. Database Integration & Efficiency
- 5. Team Collaboration & Presentation

#### **Outcomes & Student Impact**

- Students gained hands-on experience in MERN stack development.
- Improved skills in teamwork, time management, and problem solving.
- Confidence in handling real-world project challenges increased.
- Exposure to **industry-like evaluation methods** and coding practices.
- Winners were announced and recognized, motivating students to pursue innovative projects.

#### **Suggestions & Feedback**

- Students suggested including a **deployment session** (using platforms like Heroku, Vercel, or AWS).
- Recommended extending the hackathon to **24 hours or multiple days** for deeper project development.
- Requested more **domain-specific problem statements** (AI, IoT, Blockchain integration with MERN).



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### Department of Computer Science and Engineering

8-Hour HACKATHON on MERN Stack Technologies

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8-Hour HACKATHON on MERN Stack Technologies

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### 1. E-Commerce Website

**Problem Statement:** Many small businesses need to sell their products online but do not have a simple and efficient platform to display products, manage orders, and engage with customers. This project aims to build an easy-to-use, web-based e-commerce system for small businesses that currently lack a simple and efficient way to sell their products online. The platform will provide a comprehensive solution for showcasing products, managing orders, and interacting with customers

### **Project Summary & Features**

The application is a complete online storefront. Key features include:

- **User Management**: Users can register for an account and log in securely. The system uses JWT-based authentication.
- **Product Catalog**: Customers can browse a product catalog that includes categories and filters for easy navigation. The platform also includes product search functionality.
- **Shopping Cart**: Users have the ability to add products to their cart and remove them as needed.
- **Order Processing**: The system allows users to place orders and view their complete order history. It also includes basic order management features like order status tracking.
- **Admin Panel**: An administrator panel allows business owners to add, update, and delete products.
- **Responsive Design**: The website is designed to be fully responsive, providing an optimal viewing experience on both desktop and mobile devices.

#### **Implementation Approach:**

• **Frontend:** React + TailwindCSS.

• **Backend:** Node.js + Express.js.

• **Database:** PostgreSQL with Prisma.

• **Authentication:** JWT + bcrypt.

#### **Detailed Project Breakdown**

Module	Tasks
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UI/UX Design	The frontend will be built with React and styled using TailwindCSS. The focus is on a responsive design for the product catalog, cart, and checkout pages. Navigation will be handled by React Router.
Database Schema	A PostgreSQL database will be used, managed via the Prisma ORM. The schema will include tables for Users, Products, Orders, and CartItems, and will use enums for categories and status fields.
Backend API	The backend will be developed with Node.js and Express.js. It will provide CRUD APIs for products, orders, and users, as well as dedicated authentication APIs.
Authentication	The system uses JSON Web Tokens (JWT) for session management and bcrypt for securely hashing passwords.
Integration	The frontend communicates with the backend via API calls made with Axios.
Testing & Validation	The project plan includes implementing input validation and handling edge cases such as empty cart checkouts and invalid login attempts.

### 2. Food Ordering Application

**Problem Statement:** People often find it difficult to efficiently search for nearby restaurants and order food from various places. This project addresses the difficulty people face in efficiently searching for nearby restaurants and ordering food from multiple establishments. It provides a streamlined mobile-first application for users to browse restaurants, view menus, place orders, and track their delivery status in real-time

### **Project Summary & Features**

This application provides a streamlined food ordering experience with the following features:

- **User Management**: Users can register and log in to the application using JWT authentication.
- **Restaurant Discovery**: Users can browse restaurants, filtering them by cuisine or location.
- **Menu and Ordering**: The platform allows users to view restaurant menus, add food items to a cart, and place orders.
- **Real-Time Tracking**: A key feature is the ability to track an order's status in real-time, from "Pending" to "Preparing" to "Delivered".
- **Restaurant Panel**: A management panel is available for restaurant owners to perform CRUD operations on their menus.
- **Mobile-First Design**: The application features a responsive design optimized for a mobile-first experience.

#### **Implementation Approach:**

• **Frontend:** React + TailwindCSS.

• **Backend:** Node.js + Express.js.

• **Database:** PostgreSQL with Prisma.

• **Authentication:** JWT + bcrypt.

### **Detailed Project Breakdown**

Module	Tasks
UI/UX Design	The frontend is built with React, TailwindCSS, and React Router. The design focuses on providing a responsive interface for the menu, cart, and order tracking pages.

Database Schema	The application uses a PostgreSQL database managed with Prisma. The schema includes tables for Users, Restaurants, Menus, Orders, and CartItems.
Backend API	The backend is built on Express.js and Node.js. It provides CRUD APIs for restaurants and menus, and handles order placement and user authentication.
Authentication	User sessions are secured using JWT Authentication.
Integration	The React frontend communicates with the Express backend, which then interacts with the PostgreSQL database via Prisma.
Edge Case Handling	The project specifies handling for edge cases such as empty menus, invalid coupon codes, and order cancellations.

### 3. Online Event Booking System

**Problem Statement:** Booking tickets for events can be a confusing and slow process due to the lack of centralized platforms. This project addresses this by allowing users to easily browse events, select seats, and manage bookings online.

#### **Project Summary & Features**

This platform simplifies the event ticketing process with the following features:

- User Management: Provides secure user signup and login functionality using JWT.
- Event Browsing: Users can browse upcoming events, with the option to filter by category.
- **Booking and Ticketing**: Users can view event details and available seats, book their preferred seats, and generate tickets.
- **Booking History**: A dedicated section allows users to view their past and upcoming bookings.
- **Admin Panel**: An admin panel allows organizers to create new events and manage all bookings.
- **Responsive Layout**: The system features a responsive design that works on both mobile and desktop platforms.

#### **Implementation Approach:**

• **Frontend:** React + TailwindCSS.

• **Backend:** Node.js + Express.js.

• **Database:** PostgreSQL with Prisma.

• **Authentication:** JWT + bcrypt.

#### **Detailed Project Breakdown**

Module	Tasks
UI/UX Design	The frontend is developed with React and TailwindCSS. The design priority is a clean event listing and an intuitive seat selection UI.
Database Schema	The backend uses a PostgreSQL database with Prisma as the ORM. The database schema is composed of tables for Users, Events, Bookings, and Seats.
Backend API	The Node.js and Express.js backend provides CRUD APIs for events and bookings and manages the logic for seat availability.

Authentication	The system uses JWT for secure sessions and bcrypt for password hashing.
Integration	Axios is used for communication between the frontend and the backend API.
Validation & Edge Cases	The project plan includes critical validation to prevent the double booking of seats and to properly handle expired events.











### **Hackathon Winners**



1<sup>st</sup> Prize Rs. 10,000/-Winners Team-15 (Sk.Maheen, T.Harshitha, T.Usha Sri, Y. Keerthi, B. Prasanna)



Team-6 (Irafan Jan Khan, T. Avinash, P. Heamnth Kumar, S.Bharath)



2nd Prize Rs. 8,000/-Winners Team-14 (Md. Aqball, L. Rajesh, K. Jaya Trisha, M. V. Surya Kira, D. Lokesh)



3rd Prize Rs. 6,000/-Winners

Team-08 (A. Satya Sai Deepika, B. Sujan Priya, B. Komali, K. Akshaya, M. Snowy Binny Angelina)



3rd Prize Rs. 6,000/-Winners Team-13 (L. Prasuna Sahithi, R. Sowjanya, R. V. Pushpa Latha)



3rd Prize Rs. 6,000/-Winners

Team-31(G. Udaya Venkata Naga Sai, P. Sampath Reddy, P. Zoshi, Sd. Sameer, S. Akhilendra Reddy)



Consolation Prize Rs. 3,000/-Winners Team-18 (Ch. Hanuram Phani Prasad, M. Surendra Reddy, P. Narasimha Rao, P. Naveen, Sk. Atiq Rehaman)



Consolation Prize Rs. 3,000/-Winners Team-19 (B. Venkata Sai Sri Varun, K. Usha Sri, Sk. Afreen, Sk. Naseema, S. Nikhila Sri )

### Felicitation to Resource Person & Vote of thanks by HOD



As part of the **8-Hour Hackathon on MERN Full Stack Technologies**, a felicitation program was conducted to honor the **Resource Person & Evaluator Mr. R. Abhishek** for his valuable contribution and guidance. The felicitation was graciously done by **Dr. M. Srinivasa Rao, Dean Academics & Professor, Dept. of CSE**, and **Dr. S. Nagarjuna Reddy, Head of the Department, Dept. of CSE**. Their appreciation and encouragement highlighted the importance of expert mentorship in nurturing innovation and motivating students towards excellence.



During the 8-Hour Hackathon on MERN Full Stack Technologies, Dr. S. Nagarjuna Reddy, Head of the Department of CSE, appreciated the efforts of Dr. K. Devipriva, Professor, Dept. of CSE, and Mr. N. Srinivasa Rao, Sr. Assistant Professor, Dept. of CSE, for their active involvement as internal evaluators and for guiding the students with valuable insights and encouragement throughout the event.

Dr. S. Nagarjuna Reddy, Head of the Department of CSE, expressed his heartfelt appreciation to all the faculty coordinators, student participants, and the supporting technical & non-technical staff for their dedication and teamwork in making the 8-Hour Hackathon on MERN Full Stack Technologies a grand success. He emphasized that such collective efforts are the true driving force behind the department's achievements.

Dr. S. Nagarjuna Reddy, Head of the Department of CSE, extended a warm vote of thanks to the resource person, evaluators, faculty coordinators, student participants, and the supporting staff for their valuable contributions to the successful conduct of the 8-Hour Hackathon on MERN Full Stack Technologies. He acknowledged the collective efforts that made the event impactful and motivating for students.

Department of Computer Science & Engineering Lakireddy Balireddy College of Engineering MYLAVARAM-521 230, A.P. INDIA