KKR&KSR Institute of Technology and Sciences
Vinjanampadu, Guntur, Andhra Pradesh-522017

Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada

Accredited with "A" Grade by NAAC & NBA Accreditation Status for 4 UG (CSE, ECE, EEE, ME) Programs

Conducted 24 Hours Hackathon on Full Stack Technology @ 05/08/2023 in Association with Brainovision, Hyderabad.

About the Hackathon:

in this hackathon students have learned full-stack development, technology stack, and its components.Setting up the development environment with code editors and version control.Basics of HTML and CSS for structuring and styling web pages.Introduction to JavaScript: variables, data types, functions, control structures.Introduction to a frontend framework (e.g., React) and its components.Styling web applications using CSS frameworks and responsive design principles.Basics of RESTful APIs and making API requests with JavaScript.Hands-on project: Building a simple interactive webpage with API integration.

About the Chief Guest:

Working with Brainovision Solutions India Pvt Ltdfrom4thFeb2021 10+years of training experience GiventraininginCorporates,Universities,Government Organizations.He has many Technical skills

Programming Languages	Python, Python, JS, php, The Rust
Frontend Technologies	HTML, CSS, JS, REACT, Vue.JS
Backend Technologies	NODE, php, django, laravel, Flask
Database Technologies	MySQL, Oracle, Postage SQL, mongoDB, GraphQL
Mobile Technologies	android, React, Swift

Latest Technologies	Machine Learning, Deep Learning, NLP, iOt, Data Analytics, Blockchain
Cloud Technologies	AWS, Azure, Firebase, docker
No-Code Tools	WordPress

1. Objectives of the Hackathon:

1.Understand the Full-Stack Landscape:

- Introduce participants to the concept of full-stack development and its significance in modern web applications.
- Explain the roles and responsibilities of both frontend and backend developers in a full-stack environment.

2. Learn Frontend Development:

- Teach participants the fundamentals of HTML, CSS, and JavaScript to create interactive and visually appealing web pages.
- Familiarize participants with a frontend framework (e.gReact) to efficiently build dynamic user interfaces.

3. Master Backend Development:

- Introduce participants to backend programming using Node.js and Express to handle server-side logic and data management.
- Instruct participants on implementing RESTful APIs and connecting to databases for data storage and retrieval.

4. Grasp API Integration and Data Handling:

- Show participants how to integrate external APIs into their applications to fetch and display real-time data.

- Provide hands-on experience in performing CRUD (Create, Read, Update, Delete) operations on data stored in a backend database.
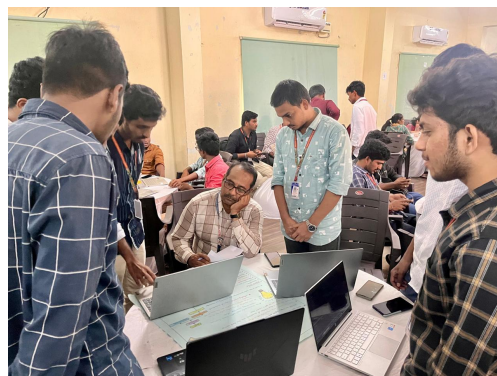
2.Venue of the Event:

The event is organized on campus and conducted by KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh in association with SPARK

3.Date & Time of the Event: The Event is organized

4.No. of students participated: 210

5.No. of faculties participated: 7

6.Event photographs.

2. **Benefits in terms of learning/Skill/Knowledge obtained.**

End-to-End Development: Full-stack developers can handle both frontend and backend development, allowing them to build complete, fully-functional web applications on their own. This end-to-end knowledge enables them to create seamless user experiences and efficiently troubleshoot issues.

Flexibility: Full-stack developers have the ability to work on various parts of a project, making them adaptable to different tasks and responsibilities. They can switch between frontend and backend tasks based on project needs, making them versatile team members.

Problem-Solving: Understanding both frontend and backend aspects equips full-stack developers with a holistic perspective on application architecture. This facilitates better problem-solving as they can identify issues at different layers and find solutions that consider the entire system.

Effective Collaboration: Full-stack developers can communicate effectively with both frontend and backend teams, enhancing collaboration between different departments. This ensures smoother project coordination and reduces misunderstandings between different technical roles.

3. **Promotion of the Event on the Social Media Website: (Link and Screenshot):**
   (6) https://www.facebook.com/profile.php?id=100087264817607

1. **Event on the University/college :(Link and Screenshot)**

   [KITS_CSD (@kits_csd) • Instagram photos and videos](https://www.instagram.com/kits_csd)

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Liked by **_madhav.0703_** and **101 others**

kits_csd Conducted 24 Hours Hackathon on Full Stack Technology @ 05/08/2023 in Association with Brainovision, Hyderabad

2. **Expenditure Amount (If any):** Nil

3. **Remarks:** The event is organized smoothly with practical orientation.

4. **Experiences and Output of the Session**

Personal Projects: Full-stack developers can independently work on personal projects from start to finish, bringing their ideas to life without relying on others. This autonomy is empowering and allows for creative exploration.

Continuous Learning: The tech industry is constantly evolving, and full-stack developers need to stay updated with the latest trends and technologies in both frontend and backend development. This encourages a culture of continuous learning and self-improvement.

Better Communication Skills: Interacting with different teams and stakeholders necessitates effective communication. Full-stack developers develop strong communication skills, which are valuable in various aspects of their professional life.In summary, learning full-stack web development empowers individuals with the skills to create complete web applications, fosters adaptability, problem-solving abilities, and communication skills, and opens up diverse career opportunities in the tech industry.