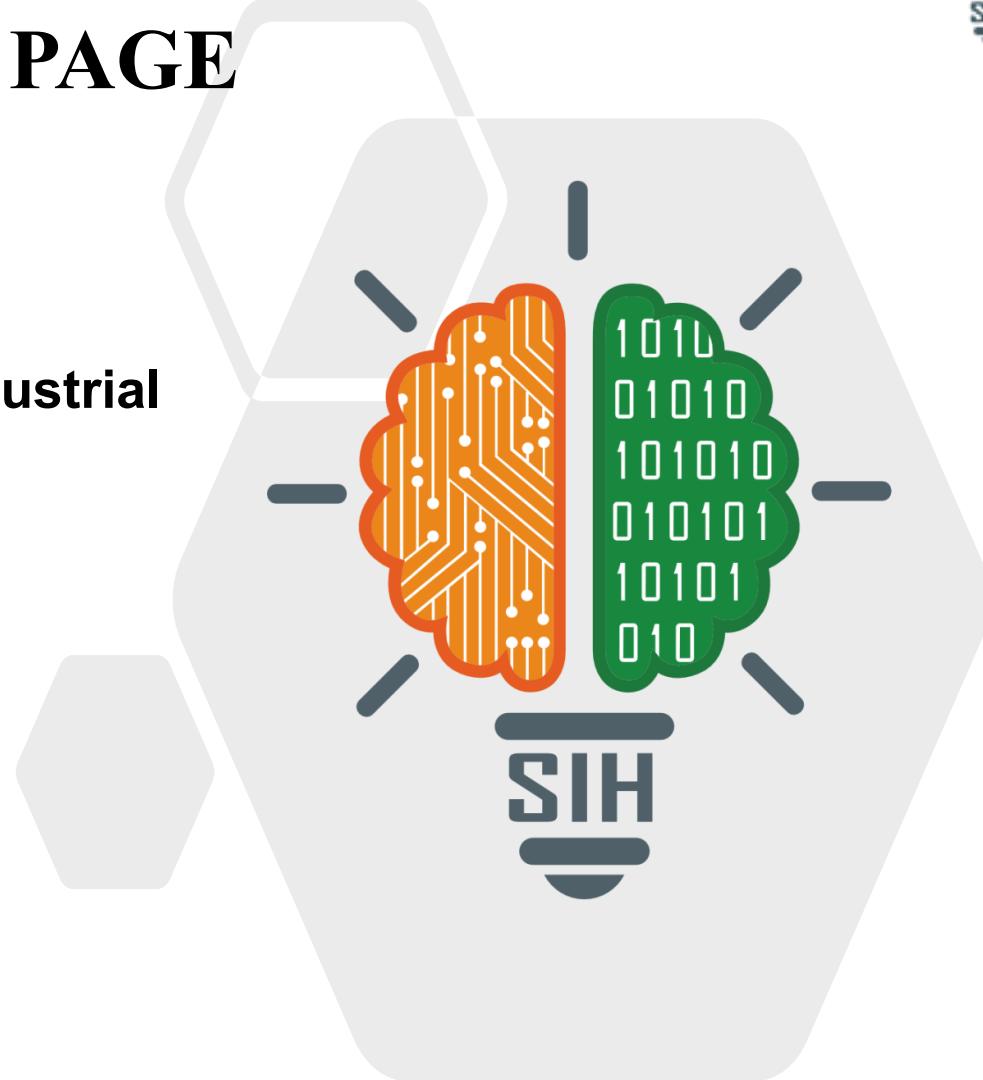


# SMART INDIA HACKATHON 2025



## TITLE PAGE

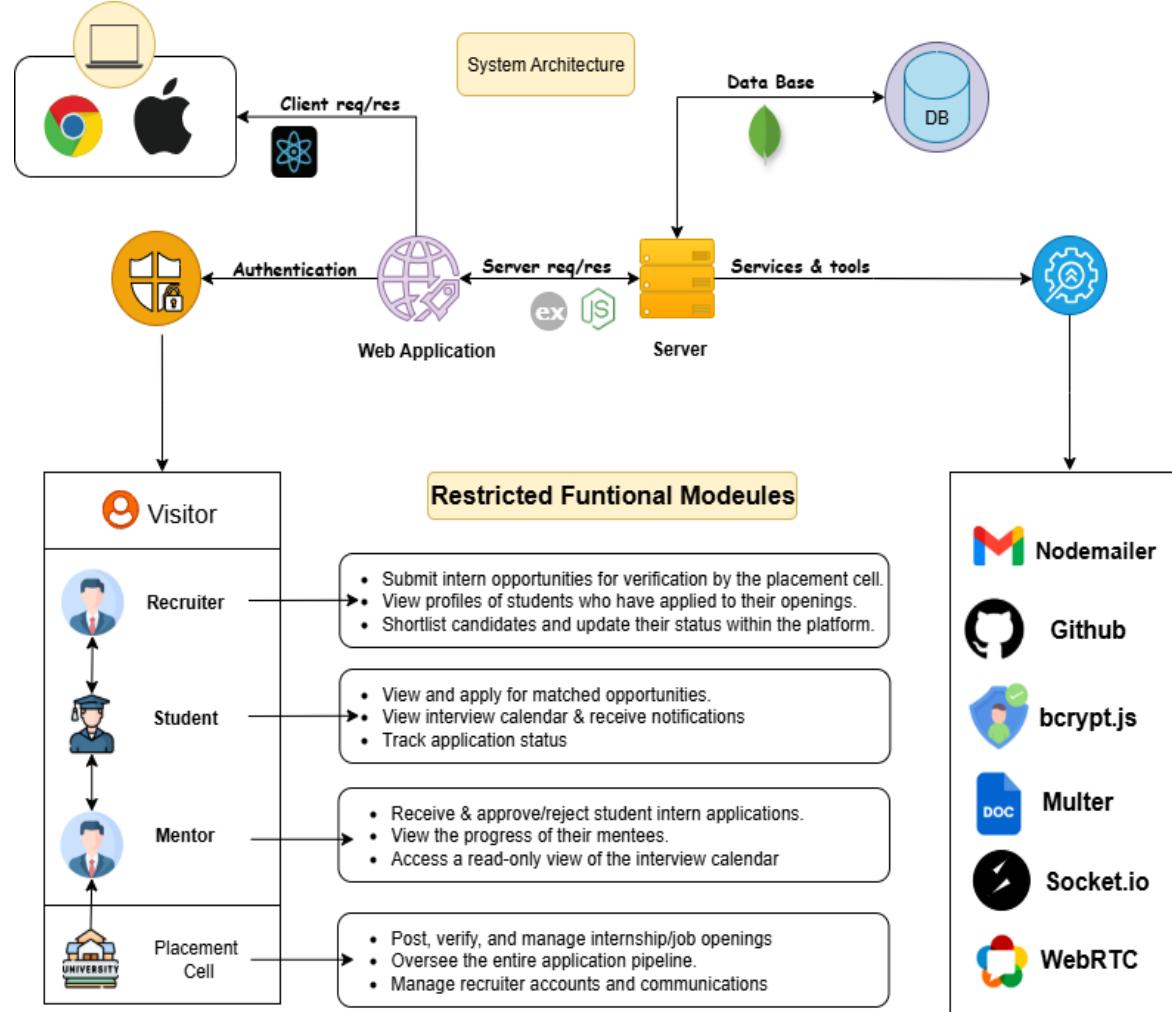
- Problem Statement ID – **SIH25106**
- Problem Statement Title- Internship/Industrial Training With Placement Opportunity
- Theme- Smart Education
- PS Category- Software
- Team ID- **101857**
- Team Name - **CodeNova**



# InternConnect

## ❖ Proposed Solution:

- **InternConnect Platform** – Centralizes all internship & placement opportunities, eliminating dependency on scattered WhatsApp groups and emails.
- **Smart Skill-Based Matching** – Matches student skills with recruiter requirements, ensuring relevant opportunities.
- **Transparent Tracking & Equal Access** – Real-time application status with faculty monitoring, ensuring fairness and equal visibility for all students.
- **Automated Alerts & Communication Bridge** – Sends reminders for deadlines/interviews and connects students, faculty, and recruiters seamlessly.
- **Data Insights & Reports** – Provides placement statistics, success rates, and skill-gap analysis, *improving institutional reputation*.
- **Innovation & Uniqueness** – A *college-centric, role-based system* with integrated faculty approval, real-time notifications, and smart analytics—unlike generic job portals.



# TECHNICAL APPROACH



## Technology Stack:

**Frontend:** React.js ,Tailwind CSS ,Framer-Motion, Chart.js, Redux

## Toolkit , Recoil

**Backend :** Node JS, Express JS, REST API , Socket.io

**Database:** MongoDB , Cloud Storage (AWS) , Redis

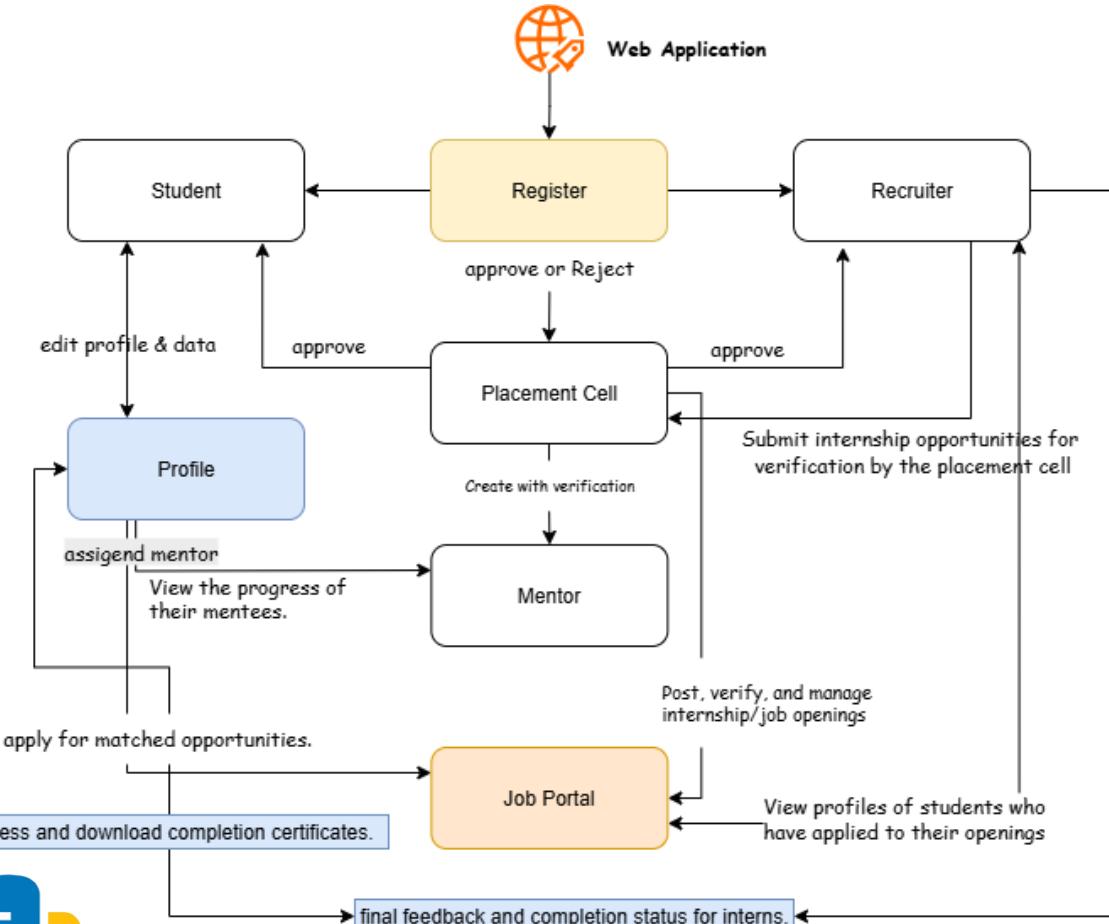
**API Services :** Nodemailer / SendGrid, Google Calendar API,

WebRTC API, Cloudinary

AI & ML : Python (FastAPI), OpenAI API / LangChain

**Cloud and Deployment : AWS , GitHub , Cloudflare, Docker**

**Add-Ons :** Postman ,GraphQL , Jest , Sentry



# Flow Diagram

# FEASIBILITY AND VIABILITY



## Feasibility

- Operational:** Streamlines and automates placement workflows, making adoption simple and efficient for students, faculty, and recruiters.
- Technical:** Leverages proven technologies like React.js, AI-based recommendations, JWT authentication, and modern web frameworks for reliability and scalability.
- Market:** Meets high demand in colleges by replacing slow, manual processes with a fast and centralized digital system.
- Institutional:** Integrates seamlessly with existing placement processes, improves operational efficiency, and enhances the institution's reputation.



## Viability

- Scalable:** Can be easily extended to multiple colleges, recruiters, and student batches without major changes.
- Sustainable:** Requires minimal maintenance while providing long-term institutional benefits and operational efficiency.
- Implementation:** Supports phased rollout, ensuring smooth adoption without disrupting ongoing placement activities.
- Cost-Effective:** Reduces administrative workload and resource usage, providing measurable ROI for institutions.



## Challenges

- Data Security:** Protecting sensitive student and recruiter information.
- User Resistance:** Encouraging adoption by students, faculty, and recruiters.
- Scalability:** Ensuring system performance as users and data grow.



## Strategies

- Security Measures:** Implement JWT authentication, encryption, and role-based access.
- User Adoption:** Conduct training, awareness sessions, and provide easy-to-use interfaces.
- Scalable Architecture:** Build modular, cloud-ready systems to handle growing users and data.

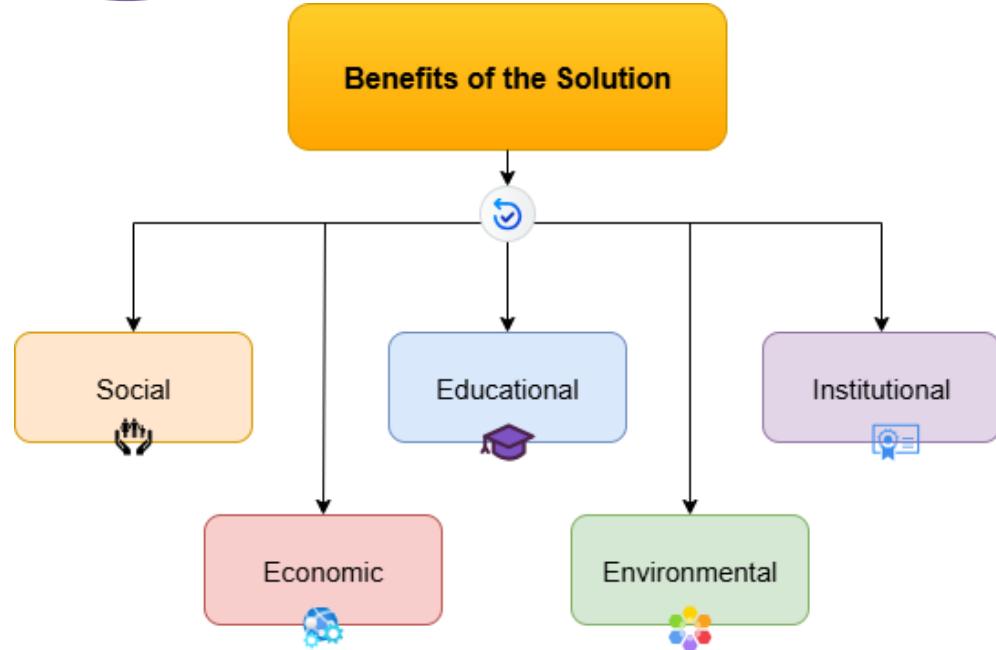
## Supporting Facts for Feasibility & Viability

→ According to a 2022 survey by *Edu Tech Insights*, 78% of colleges reported faster placement processes after adopting digital internship platforms.

→ A 2023 study by *LinkedIn Education* found that AI-driven job matching increases placement success by 40% compared to manual selection.

→ Research by *Salesforce.org* showed that institutions using cloud-based placement systems reduced administrative workload by 50%, improving operational efficiency.

# IMPACT AND BENEFITS



## ❖ Benefits of the Solution:

### Social :

- Equal access to internship & job opportunities for all students
- Promotes transparency & fairness in the selection process
- Bridges gap between students, colleges & industry

### Economic :

- Reduces administrative costs for colleges
- Faster hiring process saves recruiter resources
- Improves student employability → boosts household income

### Educational :

- Provides real-time learning through industry exposure
- Personalized job recommendations → skill-based growth
- Encourages students to build career-ready profiles
- Faculty can focus on mentoring instead of manual approvals

### Environmental :

- Eliminates paper-based manual records
- Energy-efficient cloud systems reduce on-campus infra needs
- Supports sustainable digital transformation

### Institutional :

- Enhances college reputation with modern placement process
- Builds stronger recruiter partnerships
- Competitive advantage in attracting students

## ❖ Potential Impact on Target Audience:

**Increased engagement :** 95% Faster Applications, smarter Job Matching, AI-powered role recommendations.

**Enhancing outcomes :** 80% Time Reduction, Automated approvals & notifications data-Driven Decisions, real-time analytics dashboard ,reduced admin work automated reminder system

**Improve transparency & fairness :** Quality Candidates , Pre-verified, skill-matched students , efficient hiring ,Integrated scheduling & feedback tools ,direct engagement real-time communication channel.

# RESEARCH AND REFERENCES



## ❖ References

### Placement Platforms:

- Superset: <https://joinsuperset.com/>
- Camu: <https://camudigitalcampus.com/>
- unstopp : <https://unstop.com/>

### Research & Best Practices:

- [College Placement Portals](#)
- [Research on College Placement Portal System](#)

### AI & Job Matching:

- [AI-Based Career Matching – ResearchGate](#)

### Feasibility Facts:

- [LinkedIn Survey on AI in Hiring.](#)

**AICTE/PRACTICE (2025):** 50% youth employability gap; only 20-25% of engineering colleges have industry tie-ups

**Mercer-Mettl (2025):** Only 42.6% of Indian graduates are employable

**Medhavi Skills Univ (2024):** 67% rural population with 31% skill shortage

## ❖ Comparison with Existing Systems

Feature	Our Platform	Traditional Platforms
<b>Application Process</b>	95% faster, one-click apply	Manual forms, repetitive data entry
<b>Job Matching</b>	AI-powered smart recommendations	Basic filters, no intelligence
<b>Communication</b>	Real-time alerts & notifications	Email-based, delayed responses
<b>Workflow Automation</b>	Auto-approvals, reminders, scheduling	Manual coordination, follow-ups
<b>Data Analytics</b>	Centralized, real-time dashboards	Decentralized, limited reporting
<b>Recruiter Tools</b>	Integrated scheduling & feedback	Basic job posting only
<b>User Experience</b>	Modern UI, intuitive dashboard	Outdated, complex interfaces
<b>Integrations</b>	Google Calendar, video interviews	Limited or no integrations