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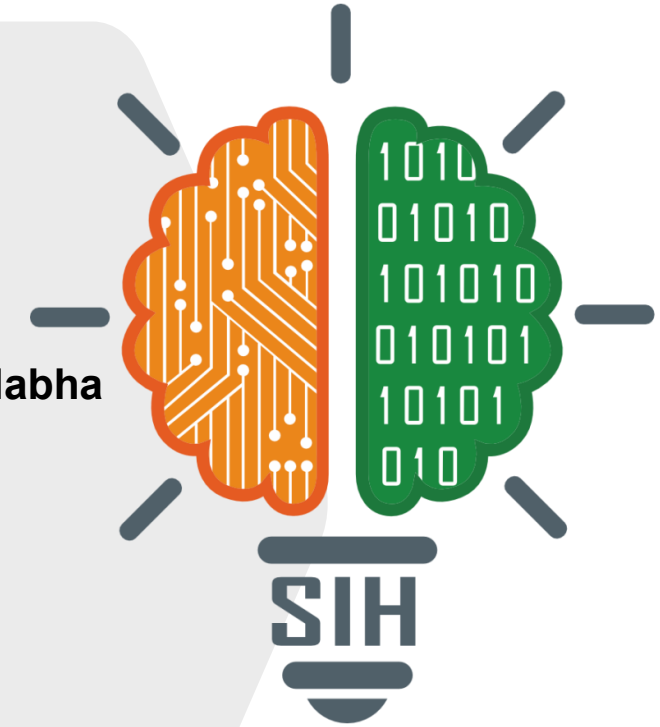
TITLE PAGE



- **Problem Statement ID – SIH25019**
- **Problem Statement Title- Digital Learning Platforms For Rural School Students In Nabha**
- **Theme- Smart Education**
- **PS Category- Software**
- **Team ID-**
- **Team Name (Registered on portal) – Void Walkers**
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- **C.Uday Eswara Reddy**
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Digital Learning Platforms For Rural School Students In Nabha

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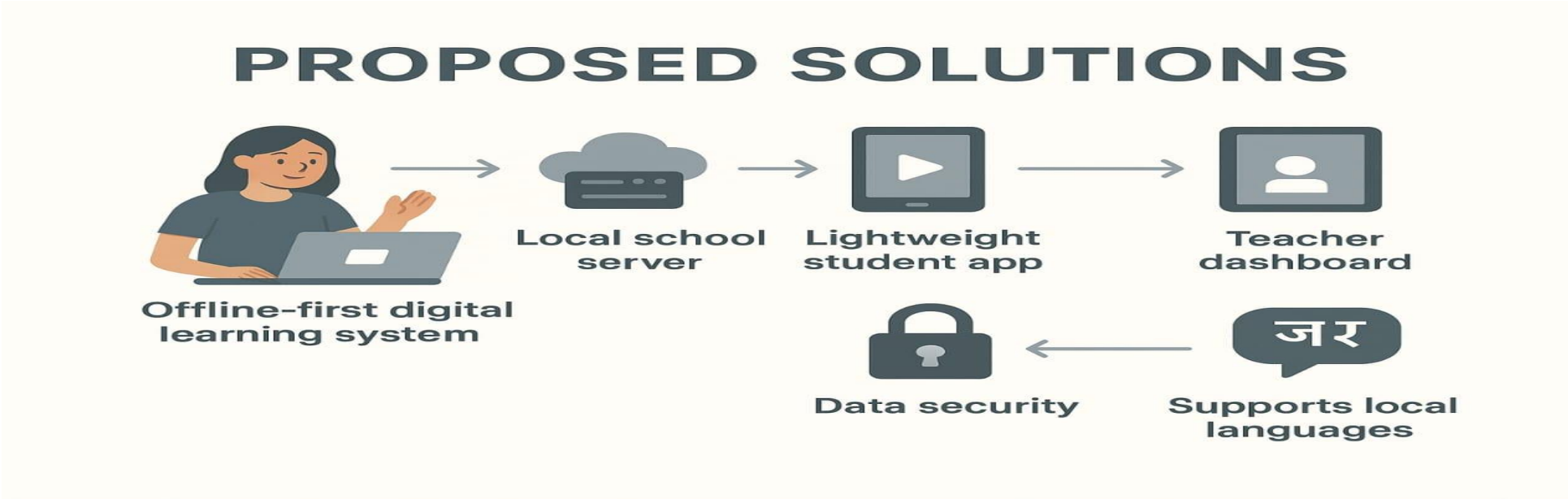
❖Proposed Solution :

- Offline first digital learning platform , simple for student and teachers dashboard.
- Local servers to connect all the contents and syllabus of local school.
- Work with low internet or no-internet.



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TECHNICAL APPROACH

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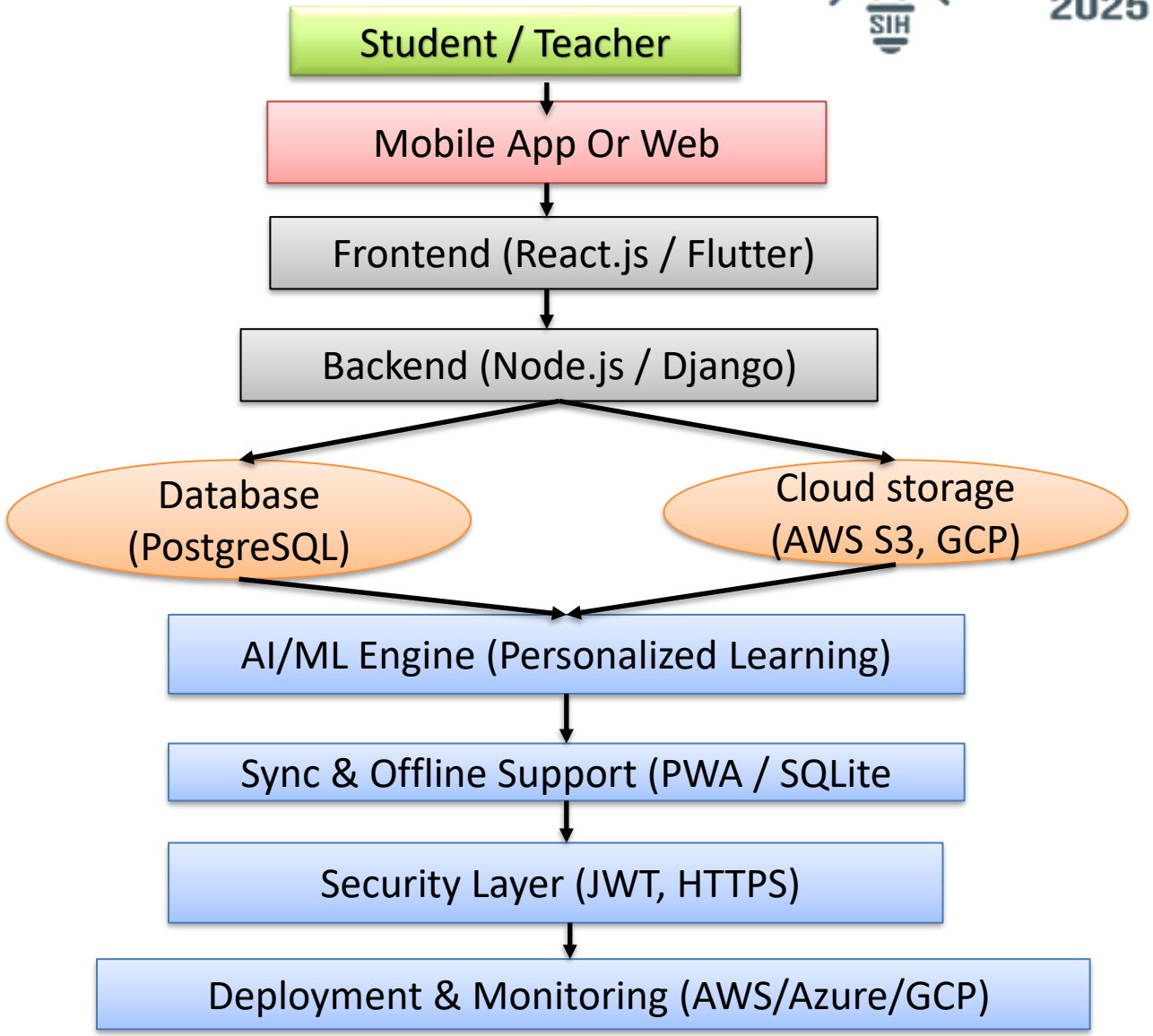
- **Frontend** (React.js / Flutter): Builds responsive web & mobile apps with multilingual and offline support.
- **Backend** (Node.js / Django):Handles server-side logic, authentication, and secure API communication.
- **Database & Cloud** (PostgreSQL / MySQL, MongoDB, AWS/GCP/Azure) Stores student data, multimedia content, and ensures scalable deployment.



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FEASIBILITY AND VIABILITY

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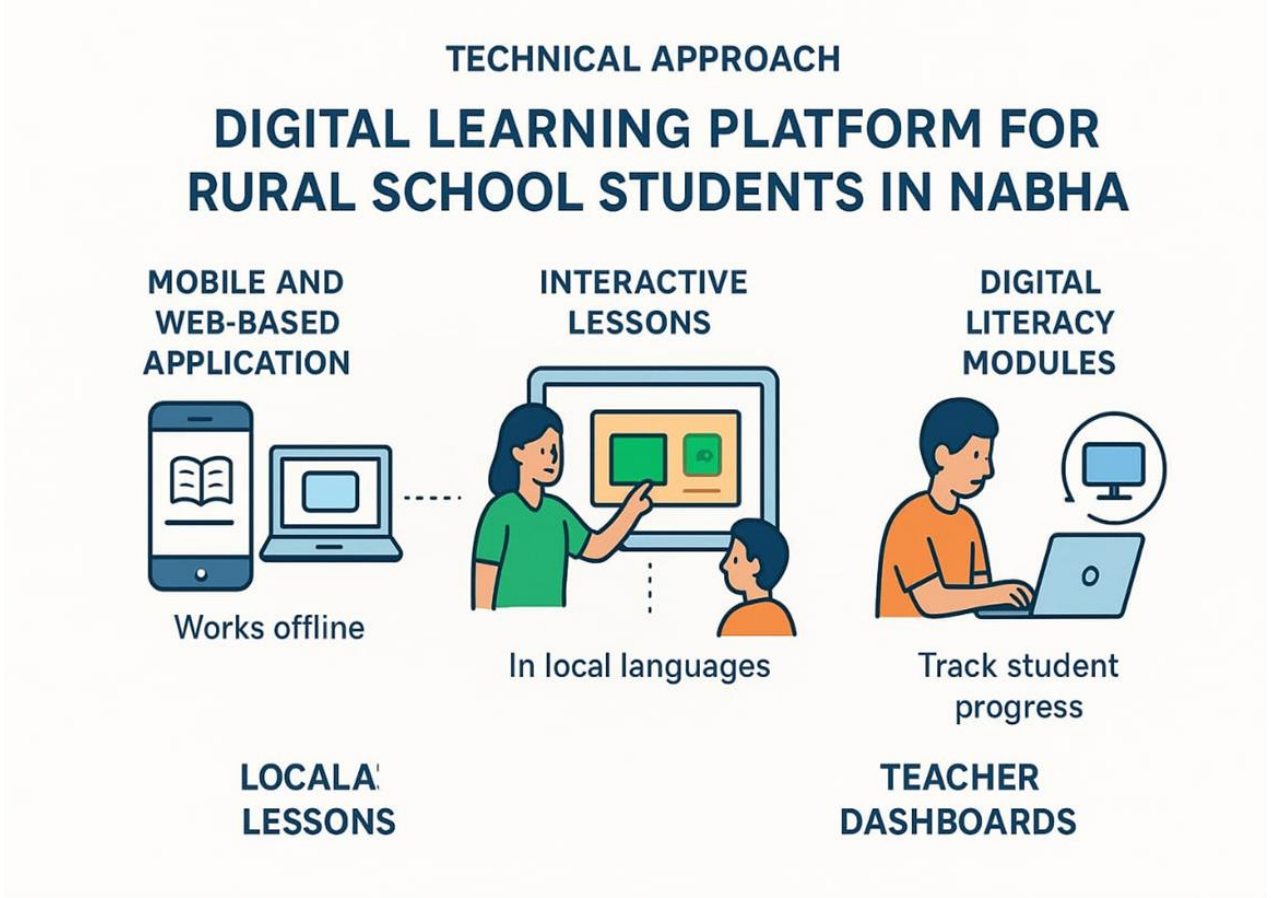
- The solution is technically feasible with low-cost hardware (Raspberry Pi, tablets) and open-source tools.
- Financially viable as setup cost is minimal and scalable across schools .
- Main risks: poor internet, teacher resistance, and device damage.
- Mitigation: offline-first design, teacher training, and low-cost replacements.



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IMPACT AND BENEFITS

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- **Bridges the Digital Gap** – Rural students gain equal access to modern learning tools like city schools.
- **Empowers Teachers** – Saves time with ready digital content, making teaching more effective
- **Sustainable & Scalable** – Works offline, low-cost, and can expand across schools and districts.

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RESEARCH AND REFERENCES

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