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Digital Learning Platform for Rural Schools in Nabha

- **Problem Statement ID** – ***25091***
- **Problem Statement Title**- ***Digital Learning Platform for Rural School Students in Nabha***
- **Theme**- ***Smart Education***
- **PS Category**- ***Software***
- **Team ID**- ***SIH2509***
- **Team Name**- ***Syntax Slayers***

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Hybrid Learning platform

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❖Proposed Solution: Hybrid Learning Platform

- A comprehensive digital learning ecosystem will be established, prioritizing an android-first mobile app to ensure accessibility for students while also providing a robust web portal for teachers.

- It offers e-learning solutions with NCERT/state syllabus aligned content, offline accessibility, multilingual support, etc.

- Its uniqueness lies in its inclusive approach combining a mobile app for widespread use in rural areas with a web portal for those which computer access in schools ensuring broad reach.

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TECHNICAL APPROACH

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- Frontend: JSS, HTML5, CSS3, React.js, Bootstrap
- Backend: Node.js, Python (Django/Flask), PHP+Laravel
- Database: SQL, NoSQL

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FEASIBILITY AND VIABILITY

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- The platform described is highly feasible for rural areas due to its mobile app approach, leveraging the most accessible device for students complemented by a web portal for schools with computer access.

- Potential challenges include limited internet connectivity and need for engaging content.

- These challenges are addressed by offline mode and USB/SD card based resource kits, syllabus aligned multimedia, interactive quizzes and multilingual support alongside a dedicated dashboard for students and teachers.

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IMPACT AND BENEFITS

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- The hybrid learning platform benefits the rural population by enhancing accessibility to quality education through mobile app and offline content, bridging the digital gap and fostering social equity.

- It will lead to reduced educational disparities between urban and rural areas by improving skill development and employability.

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RESEARCH AND REFERENCES

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- https://papers.ssrn.com
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- https://www.geeksforgeeks.org