

UPI OF Ed-Tech

PROBLEM STATEMENT ID – 1586

PROBLEM STATEMENT TITLE- STUDENT INNOVATION

PROBLEM STATEMENT – SMART EDUCATION, A CONCEPT THAT

DESCRIBES LEARNING IN DIGITAL AGE. IT ENABLES LEARNER TO LEARN

MORE EFFECTIVELY, EFFICIENTLY, FLEXIBLY AND COMFORTABLY.

THEME- SMART EDUCATION

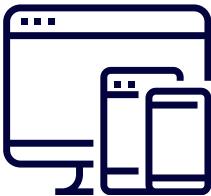
PS CATEGORY- SOFTWARE

TEAM ID- N/A

TEAM NAME – AWADH



UPI OF Ed-Tech



Digital Library

- Comprehensive Access:** All educational content sorted into categories and sub-categories including official test series.
- Multi-Platform Availability:** Accessible on web, mobile, and tablets.



Credible Information

- Effective Study Tools:** Promote effective study habits.
- Fact-Checking:** Ensure all information is accurate and reliable.



AI Integration

- AI Summaries, Quizzes, and Daily Problems:** Enhance learning with AI-generated content from PDFs and PPTs.
- Gesture Writing:** Enable interactive learning through gesture-based writing.
- AI Authentication:** Secure video authentication with AI for authorized access.



Quality Content Visibility

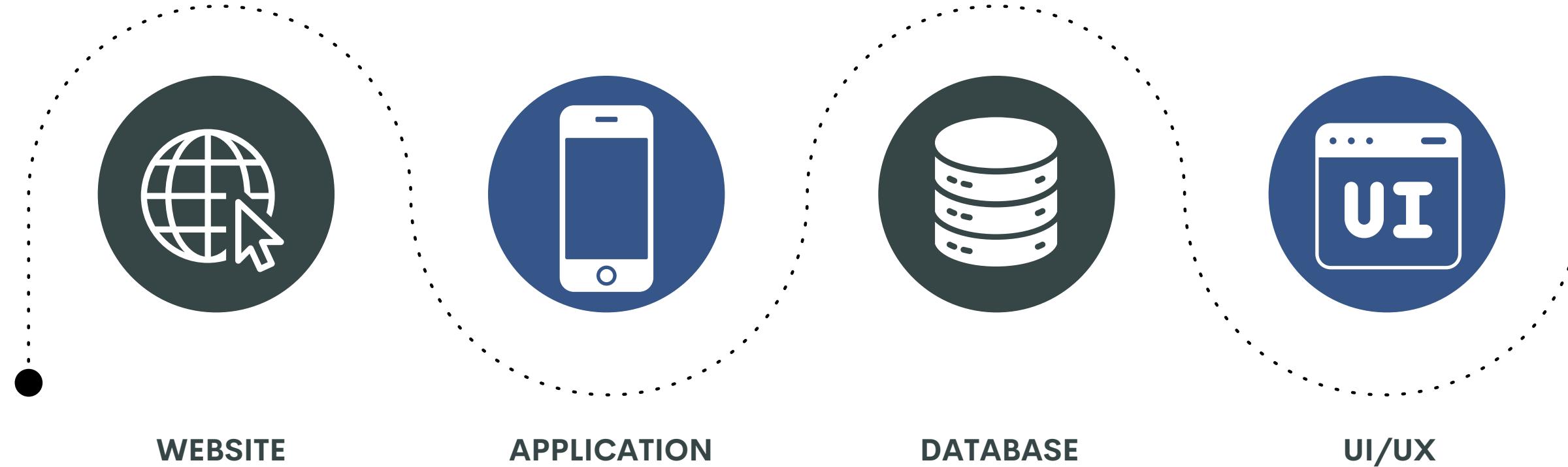
- Discovery Algorithms:** Highlights high-quality educational content.
- User Reviews:** Ratings and reviews to guide content selection.



Smart Classrooms

- Personalised Learning:** Ed-Tech level personalisation without any costs.
- Interactive Tools:** Use of digital tools for engaging lessons.

TECHNICAL APPROACH

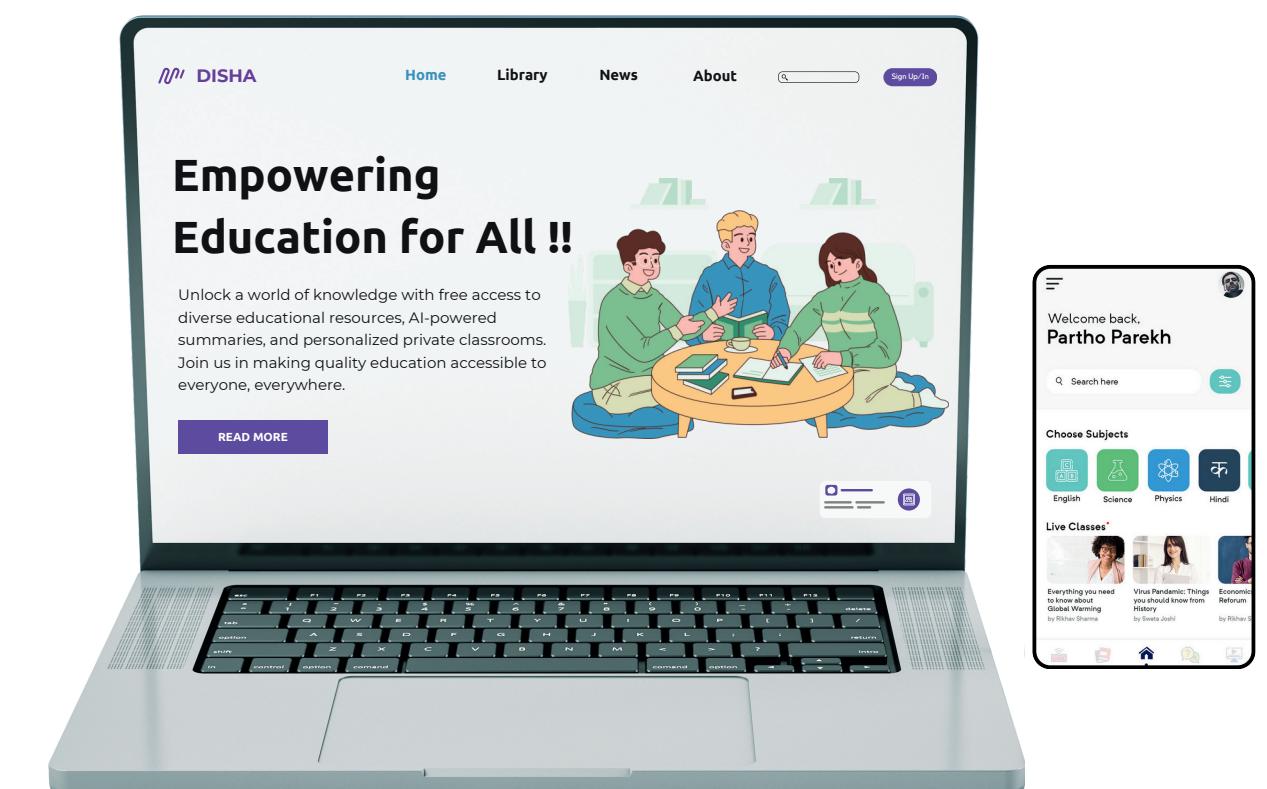
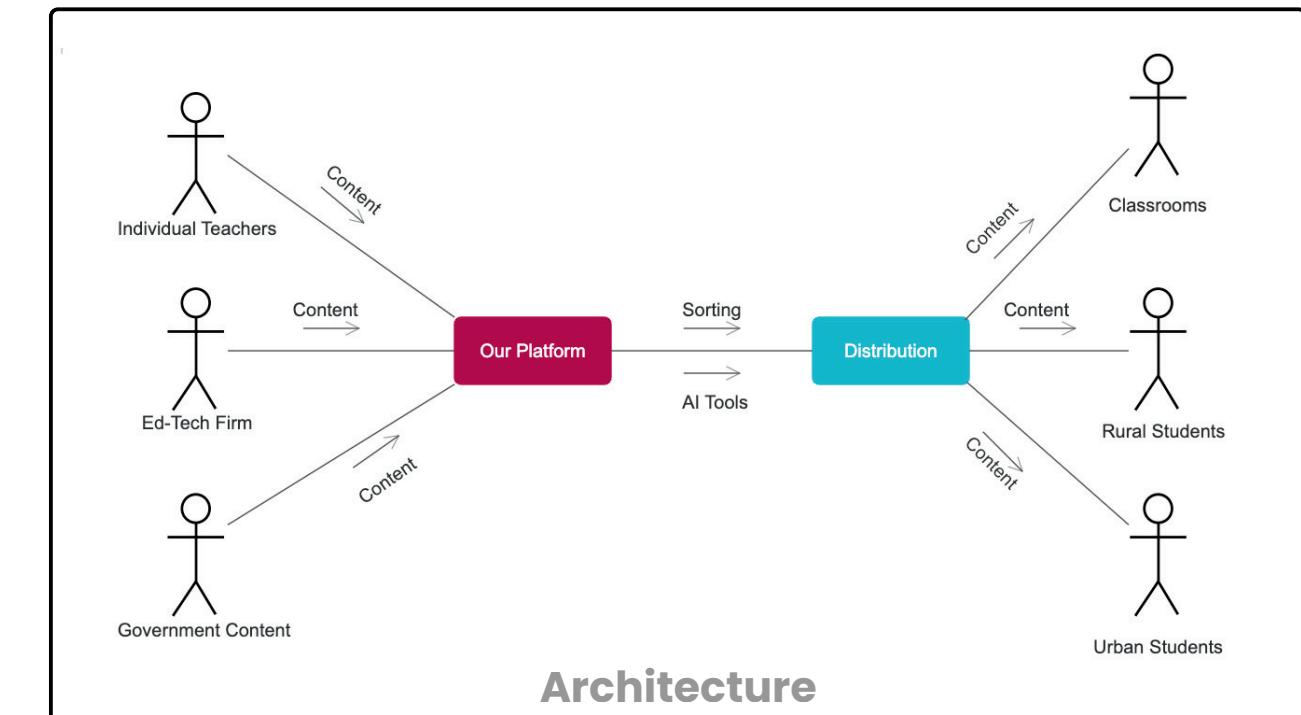


TYPESCRIPT
REACT
AWS (Host)
EXPRESS

KOTLIN
GRADLE
FIREBASE (Host)

POSTGRE-SQL
MongoDB
ROOM LIBRARY

MATERIAL UI
SHADCN
JETPACK COMPOSE
FLOWBITE

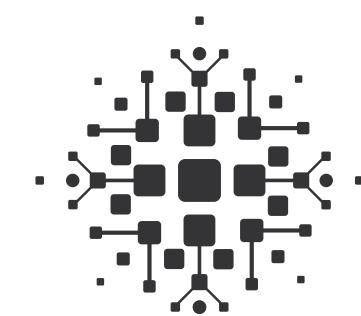
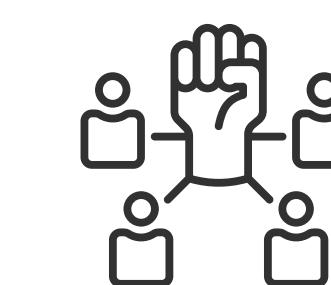
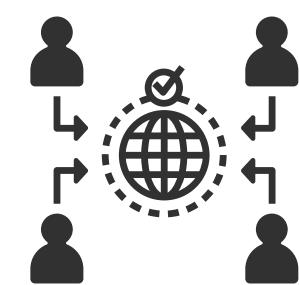


FEASIBILITY AND VIABILITY

FEASIBILITY ANALYSIS	Technically Feasible	Operationally Feasible	Economically Feasible	Scalable
CHALLENGES AND RISKS	Initial Content	Resistance to Change	Data Privacy and Security	Technical Issues
STRATEGIES TO OVERCOME CHALLENGES	Government Content & Awareness Events	Value Recognition	Robust Security Measures	Technical Support

IMPACT AND BENEFITS

IMPACTS				BENEFITS			
ENHANCED LEARNING	ACCESSIBILITY	BETTER OUTCOMES	TEACHER EMPOWERMENT	SOCIAL	ECONOMIC	ENVIRONMENTAL	TECHNOLOGICAL
<ul style="list-style-type: none"> • Personalised • Interactive • Effective 	<ul style="list-style-type: none"> • AI Generated narration for Specially Abled 	<ul style="list-style-type: none"> • Quality Content • Discoverable • High Efficiency 	<ul style="list-style-type: none"> • AI Empowered • Ed-Tech Tools 	<ul style="list-style-type: none"> • Inclusive • Ed-Tech for All 	<ul style="list-style-type: none"> • Free Tools • Free Content 	<ul style="list-style-type: none"> • Available Online • Less reliance on Physical Material 	<ul style="list-style-type: none"> • Online Records • Sorted Content • Quality Learning



RESEARCH AND REFERENCES

RESEARCH

Ansh Rai (Class 10)

It is hard to find good lectures online.

Prateek (B.Sc. Agri.)

Short summary and concise notes are hard to find.

Abhijeet (B Tech CE)

कई जगह गलत पढ़ाया गया है।

Raj Verma (Pri. Teacher)

How can new educators establish themselves?

Divya Singh (10+2)

Youtube is filled with ads.

AND MANY MORE

TIE HINDU

ONLY 8% OF CHILDREN IN RURAL AREAS STUDIED ONLINE REGULARLY IN AUGUST

In August 2021, only 8% of children in rural areas and 25% of children in urban areas studied online regularly. Even those who were online found it difficult to follow the curriculum and had connectivity issues.

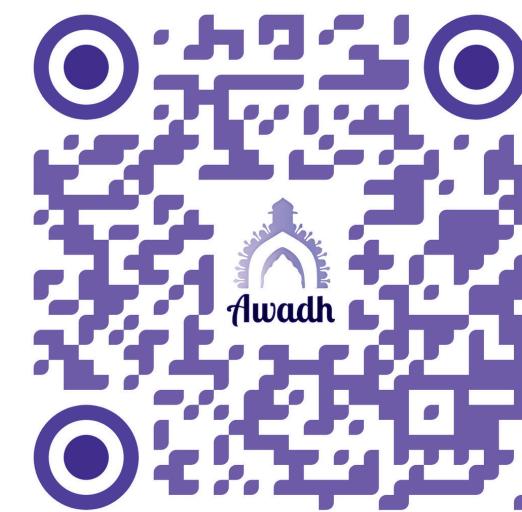
The SCHOOL survey covered nearly 1,400 underprivileged children in August this year across 15 States and UTs. The survey focused on children in rural hamlets and urban 'bastis' who generally attend govt. schools. About 60% of the sample resided in rural areas and close to 60% belonged to Dalit and Adivasi communities.

Medium

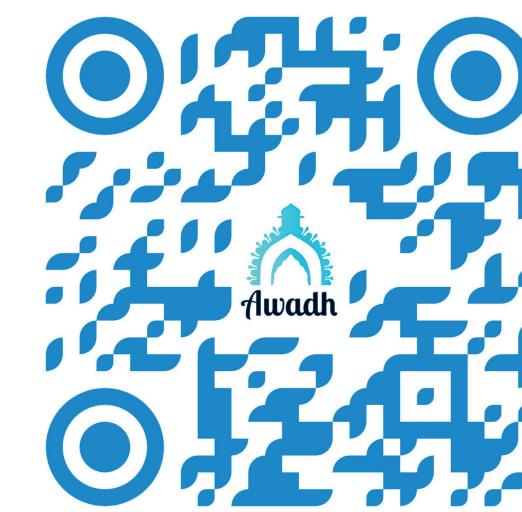
Most of the apps do not even exploit the full power of technology. Most do not feature adaptive learning — where the app figures out the skill level of the student continuously and serves problems of appropriate difficulty. Most of the math apps have pre-fed, limited number of sums, rather than exploiting the ability of technology to generate unlimited sums algorithmically.

shiksha

Factors like lack of structure, isolation, and distractions can significantly impact a student's drive and focus. By addressing these issues, you can create a more effective and motivating learning environment.



REPOSITORY



WEBSITE