MXB2026-Sylhet-Fakibazz-Master-Moshai

Final Submission

1. Basic Project Information

Field	Entry
Project Name	Master-Moshai
Team Name	Fakibazz
Submission ID	MXB2026-Sylhet-Fakibazz-Master-Moshai
Domain	EdTech
Challenge Selected	Adaptive AI Tutor
Location	Sylhet
Submission Type	Final

2. Team Information

Team Leader
Nahid Hasan
Email: nahid1719abd@gmail.com
Phone: 01755373931

Team Members

- Nahid Hasan — Full-Stack Developer & Team Lead
- Rayed Bin Razzak — UI Architect & API Developer
- Saleh Sabit — Education Domain Expert
- Fatiha Tasnim Upoma — Script Writer
- Ankit Chowdhury — Video Editor

Institution(s)
Shahjalal University of Science and Technology (SUST)
Department of Software Engineering (SWE)

Links

- GitHub: https://github.com/nahid383/master-moshai
- LinkedIn: https://www.linkedin.com/in/nahid-hasan-swe-23-sust/

3. One-Line Pitch

Master-Moshai is a free AI teacher that personalizes learning for Bangladeshi students, overcoming inequality in access to quality education.

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4. Problem Statement (Design Thinking)

Problem

Bangladesh has millions of students, yet access to quality secondary education remains deeply unequal due to financial hardship and a shortage of effective teachers, especially outside urban areas. Many students fail not because of lack of talent, but because they lack guidance, practice resources, and personalized support. This leads to poor academic outcomes, loss of confidence, and severe mental stress.

Why Existing Solutions Fall Short

Existing solutions such as coaching centers and online video platforms focus on content delivery rather than understanding. They are often expensive, one-size-fits-all, and fail to help students identify weaknesses, track progress, or receive emotional and motivational support—making them ineffective for long-term learning.

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5. Solution Overview

What We Built

Master-Moshai is an AI-based smart teacher that adapts to each student's learning style and academic needs. The system analyzes study behavior, identifies weak and strong areas, and generates a personalized learning path. An interactive dashboard tracks progress, while an AI tutor provides instant explanations and guidance.

Beyond academics, Master-Moshai also supports students' mental well-being by offering motivation and emotional reassurance, helping learners regain confidence and purpose.

Key Features

- Personalized AI study routine
- Weak-topic detection and strength analysis
- Targeted question generation
- AI tutor for instant explanations
- Progress tracking dashboard
- Multiple exam modes (online & offline)
- Motivation and mental well-being support

6. AI & System Architecture

System Overview

Input: Student performance data, study behavior, curriculum topics
AI Logic: Adaptive learning analysis, question generation, AI tutoring
Output: Personalized study plan, practice questions, explanations, progress insights

AI Components Used

- ☑ LLMs
- ☑ ML-based adaptive logic
- ☑ Automation

Tech Stack

Layer	Tools
Frontend	TypeScript, Tailwind CSS
Backend	Lovable AI backend services
AI / ML	Lovable AI, Gemini, OpenAI (ChatGPT)
Data	MongoDB, Lovable Cloud
Automation	Built-in Lovable workflows

7. Data Strategy

Data Sources

- Public academic curriculum
- Student interaction and performance data
- AI-generated practice questions

Ethics & Privacy

Student data is securely stored, never sold, and used only to improve learning outcomes. The platform follows responsible AI practices, prioritizing privacy, transparency, and student safety.

8. Demo & Proof of Work

Item	Link
Google Drive Folder	https://drive.google.com/drive/folders/1rOvFjg4f8vu3duHmCwbyxXbLBkNKNp2v
Live Demo App	https://mastermoshai-millionxbangladesh-fakibazz.lovable.app
YouTube Channel	https://www.youtube.com/@teamfakibazzofsust
GitHub	https://github.com/nahid383/master-moshai
Figma Prototype	https://www.figma.com/design/l0Ko6lcFvI32KXOfkxzD8x/millionX

9. Impact & Value

Who Benefits

Primary: School and college students (SSC & HSC), especially from rural and underprivileged backgrounds
Secondary: Teachers, parents, and educational institutions

Expected Impact

- Significant time savings through focused learning
- Reduced education costs by replacing paid coaching
- Improved understanding and confidence
- Increased access to quality education nationwide

10. Scalability & Feasibility

How This Scales

- **Technical:** Cloud-based AI infrastructure
- **Geographic:** School, college, nationwide—rural-first
- **Cost:** Free access ensures mass adoption

Next 6–12 Months

- Full user-friendly production version
- Improved UI/UX
- Advanced personalization and analytics
- Institution-level deployment

11. Sustainability Model

Area	Description
Value Proposition	Free, personalized AI education for all
Target Users	Students, institutions
Adoption Model	Freemium + institutional adoption
Sustainability	Premium features and partnerships

12. Innovation Edge (10× Thinking)

Unlike existing EdTech apps that deliver static content, Master-Moshai acts as a living AI teacher—continuously adapting, understanding student psychology, and guiding learners step by step. Its combination of academic intelligence and emotional support makes it exponentially more impactful.

13. Ethics, Safety & Responsibility

- Bias-aware AI responses
- Mental health–sensitive communication
- Transparent explanations
- No exploitative monetization

14. Roadmap

Now: MVP with core adaptive learning features
Next: Full-featured, user-friendly release
Future: Nationwide deployment with government and NGO partnerships

15. Open Source Declaration

Item	Response
Open Source?	Yes
License	MIT

16. Final Checklist

☑ Naming convention correct
☑ Drive public
☑ Demo accessible
☑ AI logic explained