DEVRIM-24

IIT - University of Dhaka

OUR TEAM

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The Problem

Typing in Banglish

Converted to Bangla

Share stories as PDF

Tool

Read & Learn

Analyze & Response

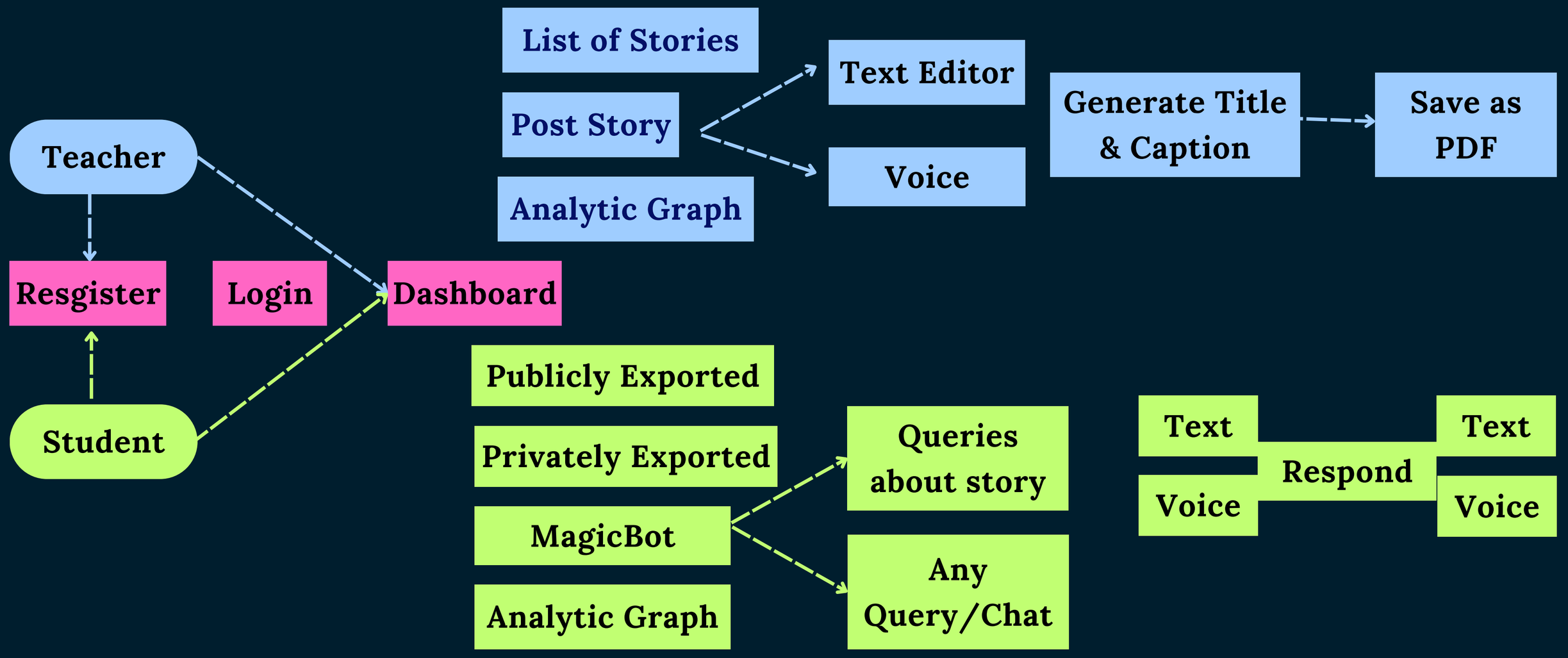
Queries in Banglish

LinguaMagic

Rina's StoryCraft App

“Transforming Banglish into Bangla with a Touch of Magic”

Proposed Scenario



Technology

Frontend

React.js

Backend

Node.js & Express

Database

MongoDB, Cloudinary

Workflow Management

LangChain OpenAPI

Inference Optimization

OpenAI

AI Models

- Hugging Face MarianMT (Translation)
- Hugging Face Conversational Models (Chatbot)

Containerization

Docker

CORE FEATURES

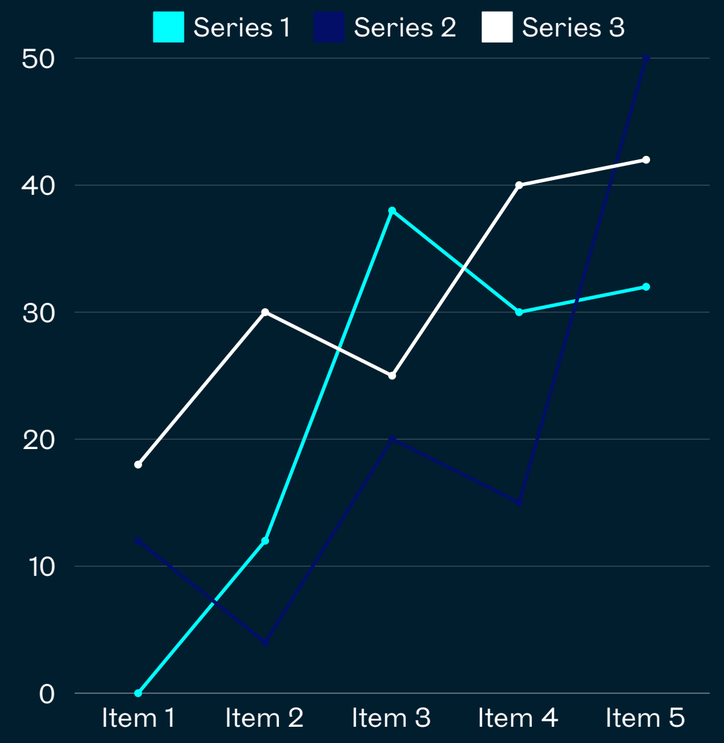
1. Authentication (Teacher or Student)
2. Banglish to Bangla Conversion (Both text & Voice)
3. Content Management (User Friendly text editor, Caption Generation, Pdf making)
4. Search Functionality
5. Chatbot Integration (Banglish Chatbot, Pdf based query
6. Training with Continuous Learning
7. Export history (Public/Private)
8. Comprehensive UI/UX
9. Scalable backend system

ADVANCED FEATURES

1. Voice Interaction (Text to Voice, Voice to Text
2. Banglish to Bangla Conversion (Both text & Voice)
3. Smart Editor (Text Formatting, Coloring, Alignment, Link/Image add, Auto Correction)
4. Analytic Dashboard
5. Graph Generation
6. Customizable Bangla Fonts for PDFs
7. Analytical Dashboard
8. Dockerization

Why US

- End-to-End Bangla Ecosystem
- User-Friendly & Inclusive
- Offers real-time voice/text interaction and formatting tools that are tailored for Bangla users.
- AI-Powered Insights & Tools
- Comprehensive analytics dashboard enhances decision-making.
- Scalable & Modern (Accuracy Rate 90%)



Write a Story

Sans Serif Normal

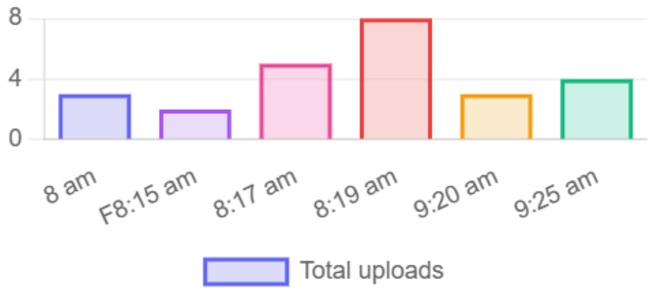
Submit Story

Start Recording

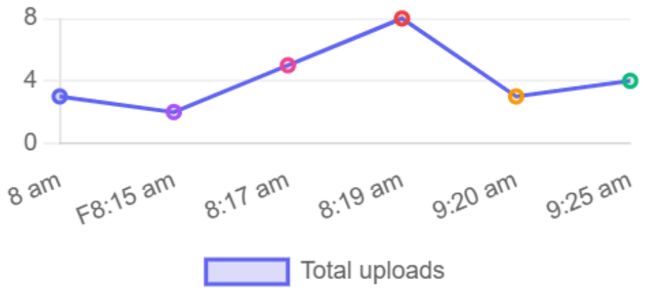
Analytics

All Charts | Bar Chart | Line Chart | Pie Chart

Bar Chart



Line Chart



THANK YOU