

An illustration of a desk setup on a dark blue background. It includes a laptop with a teal screen and keyboard, a stack of three books in teal, orange, and white, a potted plant with green leaves in a pink pot, and a teal pencil holder with three pencils. A teal and orange patterned paper is also visible.

AI - HOMEWORK ASSISTANT

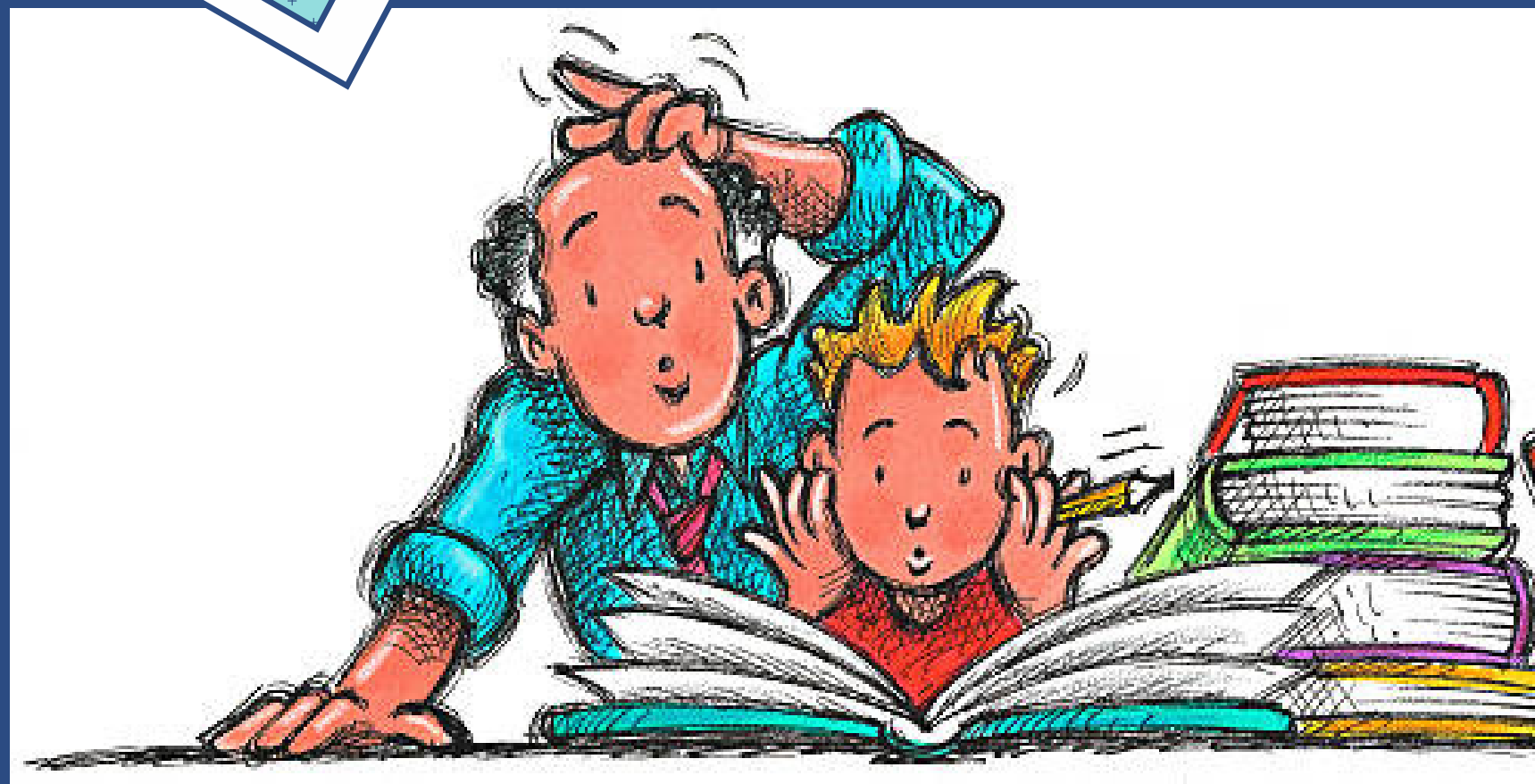
Homework Helper for Busy Parents

An AI-powered assistant helping Kenyan parents support CBC homework

Hackathon Project | July 2025 | Code intellects

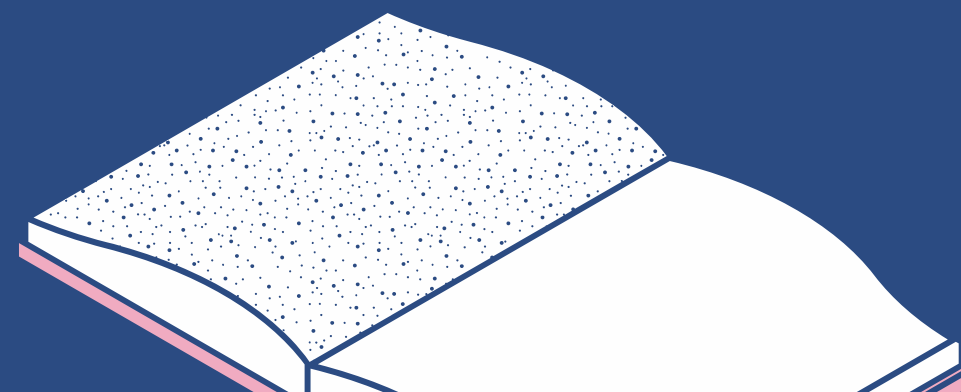
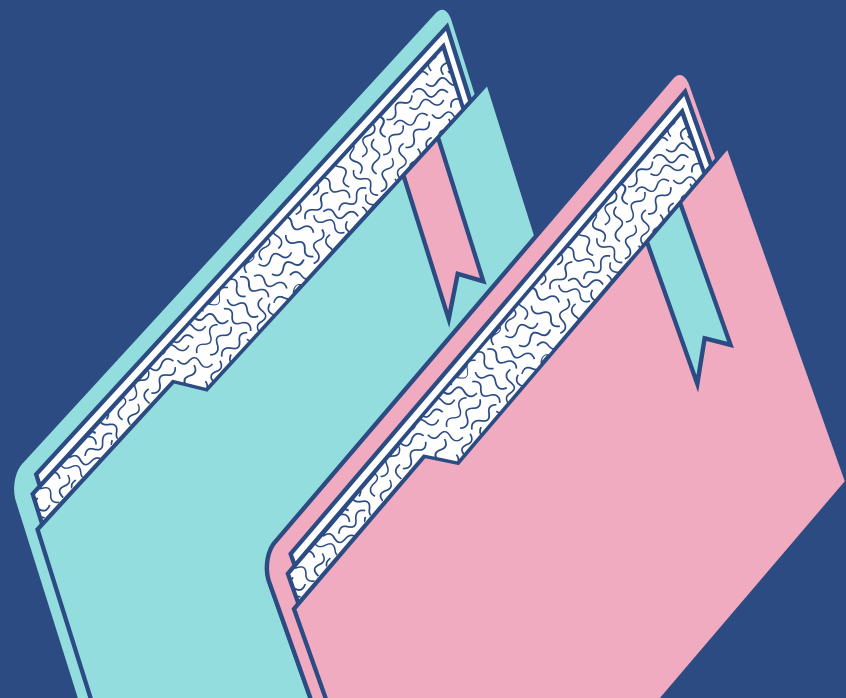
- Betty Nuguna
- Edwin Maina
- Nthabeleng Mochaoa
- Wandile Ndlovu
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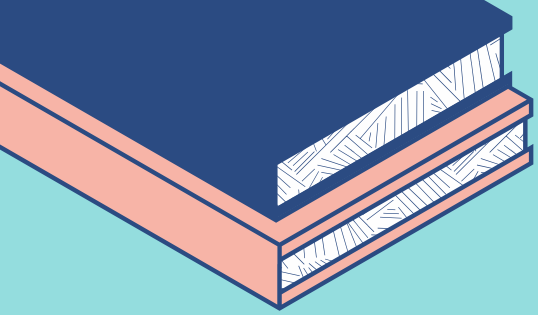
WWW.AI-Homework-Assistant.com



The Challenge

- Kenyan parents struggle with CBC homework due to time, understanding gaps, and tech barriers.
- Children need age-appropriate help—especially when learning from home.

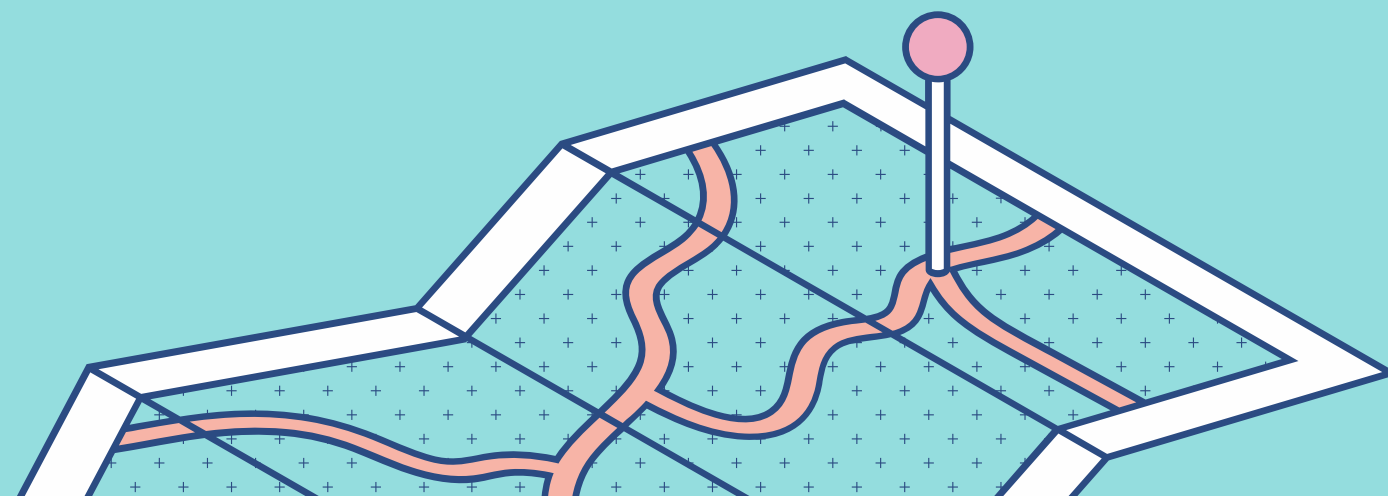
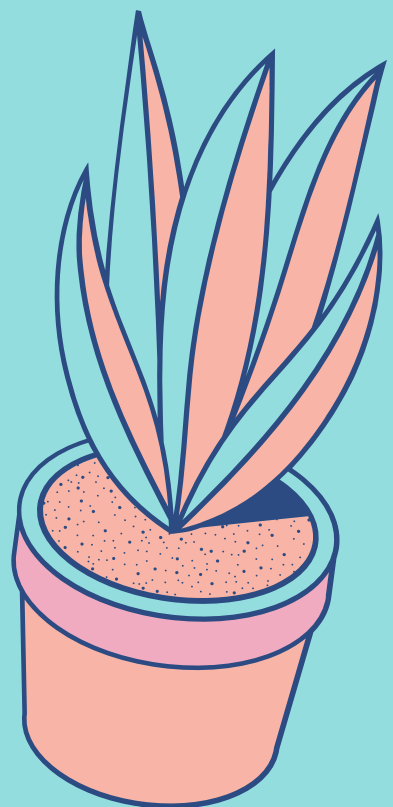
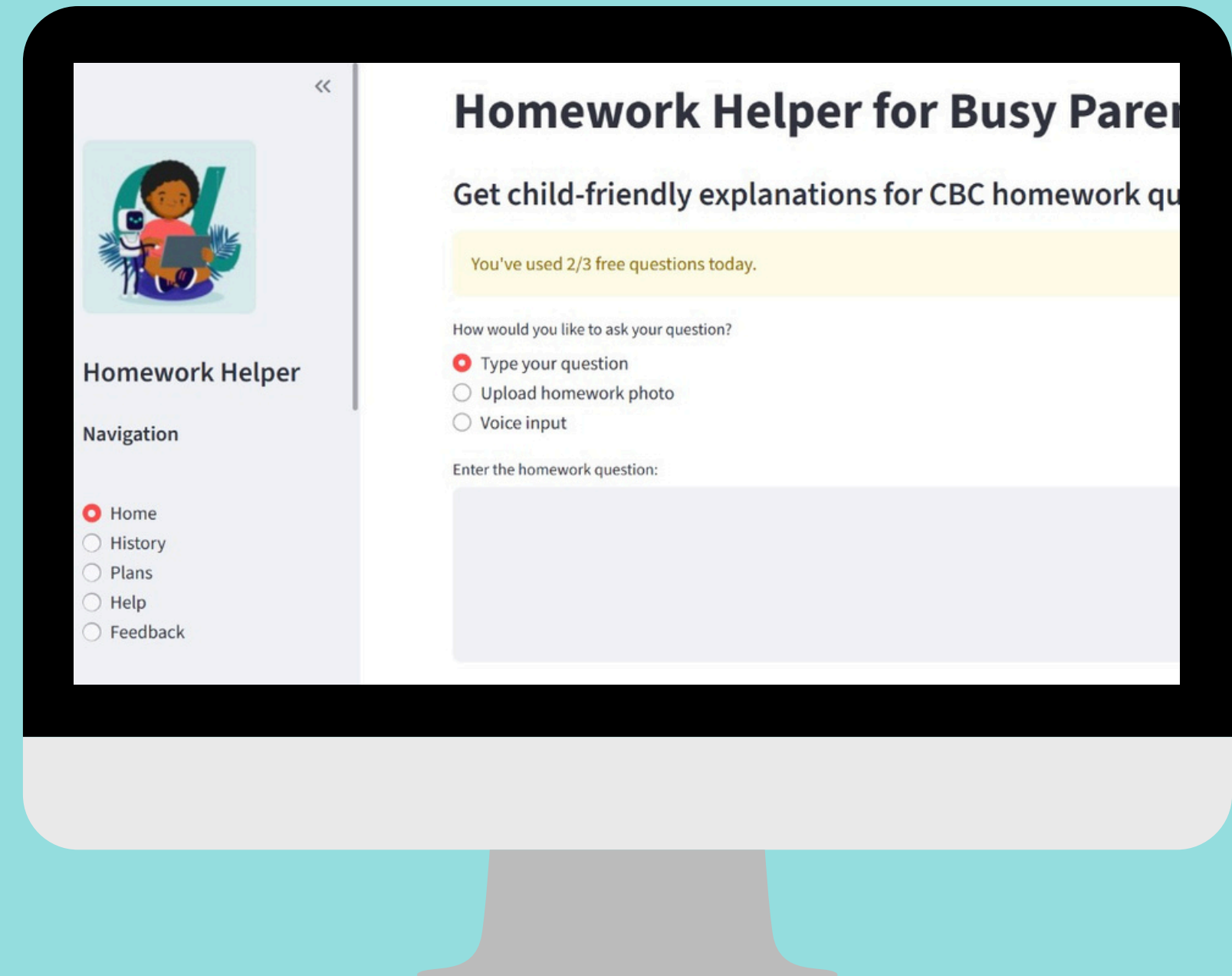


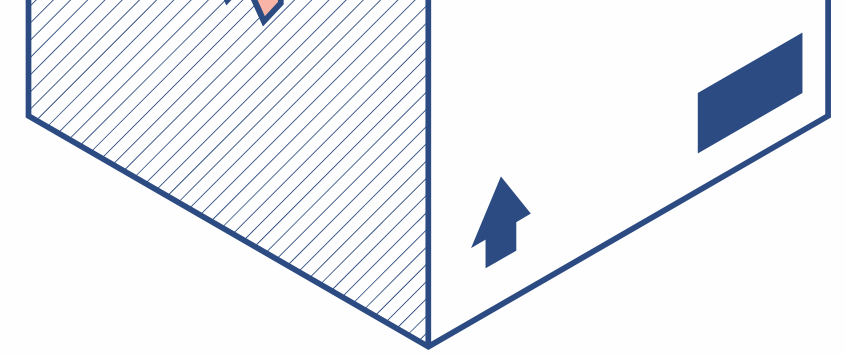
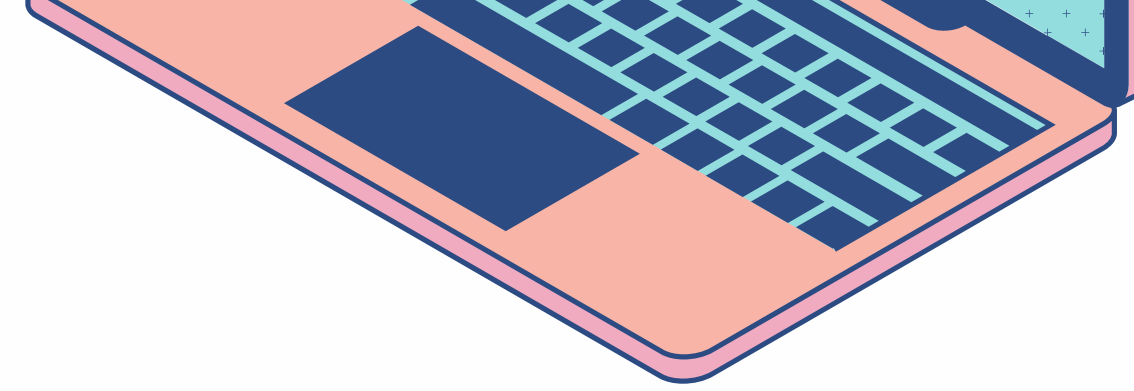
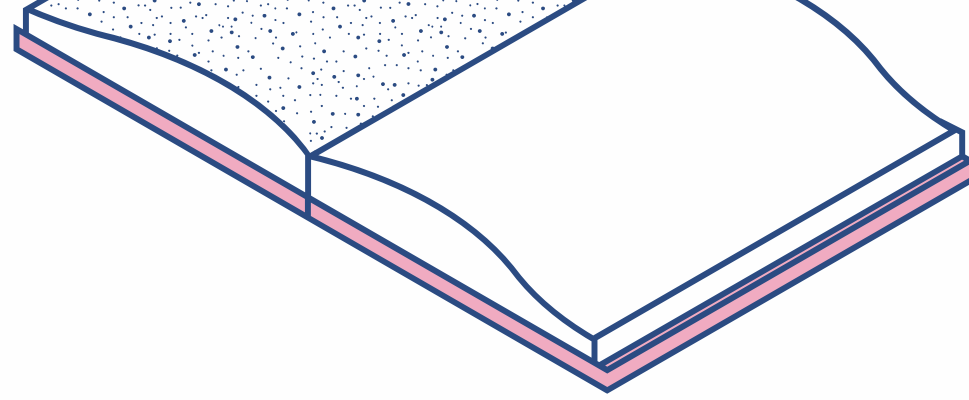


Our Solution

Homework Helper for Busy Parents

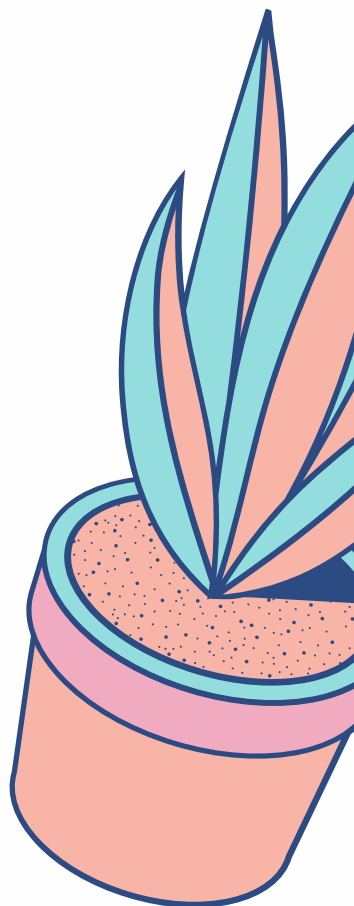
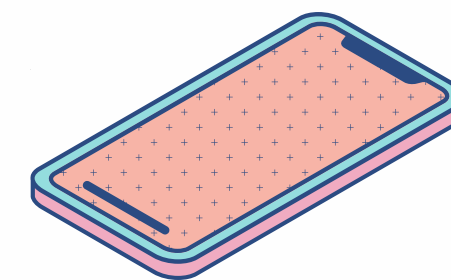
An AI-powered web app that explains CBC homework in simple, child-friendly ways—accessible via text, image, or voice.



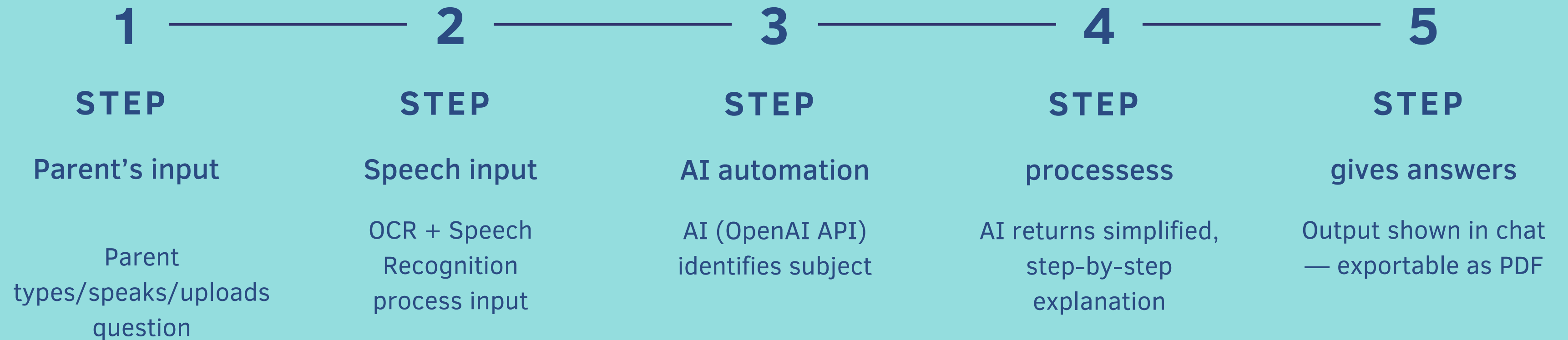


Features

- Type, image, or voice input
- Child-friendly AI explanations
- Automatic subject detection
- “Simplified” mode for 10-year-olds
- Conversation history & PDF export
- Dark mode + responsive UI
- 🇰🇪 Aligned to Kenyan CBC (Grades 4–9)



How It Works





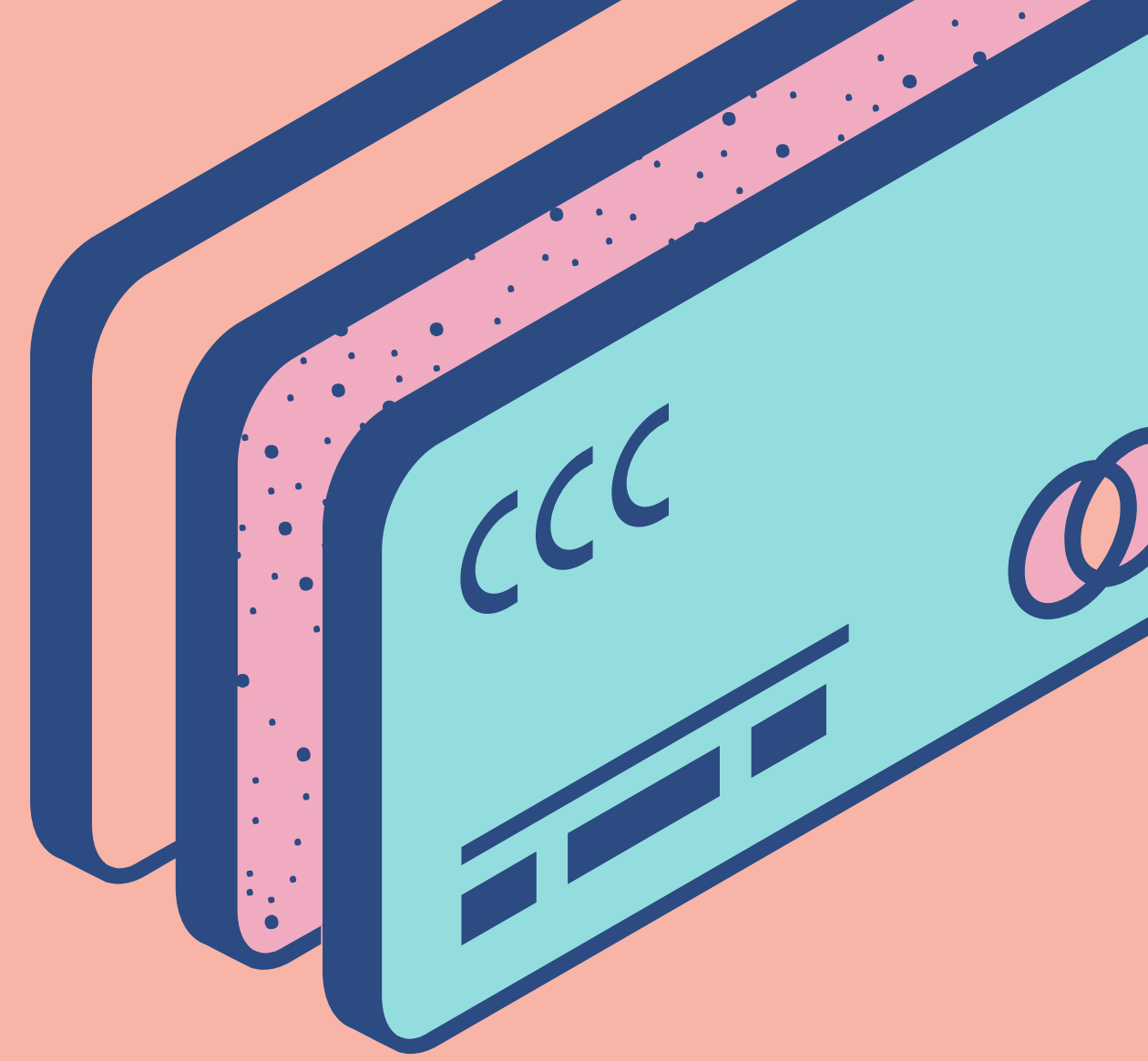
Under the Hood

- Python 3.8+ (Backend logic)
- Tesseract OCR (Image-to-text)
- Web Speech API (Voice input)
- OpenAI API (LLM explanation engine)
- wkhtmltopdf (Export conversations)
- M-Pesa API (optional monetization)

Benefits to Parents

DESIGNED FOR REAL FAMILIES

- Clean, mobile-first design
- One-click help for stuck parents
- Feedback loop for continual improvement
- Dark/light mode toggle for comfort



Impact & Alignment

CBC ALIGNMENT &
SOCIAL IMPACT



Supports Grades 4–9 CBC subjects

Covers core CBC subjects with age-appropriate, curriculum-aligned responses.

Provides daily educational tips

Gives helpful study and parenting tips to guide daily learning at home.

Empowers working-class parents

Bridges the knowledge gap for busy or less tech-savvy guardians.

Bridges the gap between home and classroom

Keeps parents actively involved in their child's learning journey.



What's Next in Digital Learning

- Pilot testing in 3 Kenyan schools
- Add Kiswahili language support
- Explore offline mobile app version
- Monetization via M-Pesa subscription

Thank you

We hope you we inspired you

Get us at : WWW.AI-homework-helper.com

