EduConnect AI – Product Requirements Document (PRD)

Founder: Ruba Ahmed Khan

1. Problem Statement

Teachers spend hours writing personalized feedback for students and often struggle to consistently communicate academic progress to parents. Most schools lack tools to simplify this task, especially in under-resourced environments.

2. Solution Overview

EduConnect AI enables teachers to upload a student result sheet and receive AI-generated feedback + recommendations for each student. It also sends these messages directly to parents via email — making communication faster and easier.

3. Target Users

- Primary & secondary school teachers
- Academic coordinators
- School administrators
- Parents (recipients of the messages)

4. MVP – Top 5 Features

- Upload Excel result sheet
- AI generates personalized feedback for each student
- Class-wise tone customization (e.g., Class 1 vs Class 5)
- Preview + manual editing of feedback
- One-click email delivery to parents

5. Future Roadmap

- **OCR-Based Marks Detection:** Teacher uploads scanned images of test papers, system auto-detects marks and auto-creates result sheet.
- **AI Voice Agent Follow-Ups:** Calls parents if emails are unopened
- **WhatsApp Notification System:** Alerts and follow-ups via WhatsApp
- **Parent Dashboard:** View history, download feedback
- **Multilingual Feedback:** English and Urdu
- **Analytics for Admins:** Progress charts, response logs

6. Tech Stack

- **UI:** Streamlit / Figma/ Nextjs
- **Backend:** Python + FastAPI
- **AI:** OpenAI Agent SDK
- **Excel + Logic:** Pandas
- **OCR (Future):** Tesseract / EasyOCR
- **Email:**   SMTP / SendGrid
- **Communication (Future):**   Twilio Voice, WhatsApp Cloud API

7. Example Flow

- Teacher uploads Excel file
- System processes student data
- AI generates feedback + recommendation
- Preview screen for teacher
- Messages sent to parents via email

8. Future Flow (Vision)

- Teacher uploads paper photo
- OCR reads marks → Excel auto-created
- Same feedback + communication flow runs automatically

9. Sample Feedback Output

"Ali scored 22/30 in Math. Feedback: Doing well with concepts, but needs to improve speed. Recommendation: Practice with timed worksheets."

10. Current Status

MVP backend logic and AI tool are ready

Feedback generation + email system functional

UI design started in Figma

Preparing for development with team

11. Team Members

Founder: Ruba Ahmed Khan

Contributing AI Engineer: Sadaf Fawad– assisting with OpenAI Agent SDK integration