# 🧠 Project Summary: DocuAI

## Overview

DocuAI is a full-stack AI-powered assistant designed to read documents (PDF, DOCX), summarize or reply to them professionally, and return formatted output.  
It includes a React Native frontend and a Flask-based backend powered by GPT-4o through OpenAI's API.

## Frontend (React Native)

- Mobile-first app built using Expo (React Native).  
- Supports uploading DOCX or PDF files.  
- Sends text or files to backend for AI summarization or formal replies.  
- Offers downloadable replies as DOCX files.  
- Dark mode and theming support.

## Backend (Python Flask)

- Flask API server using langchain-openai and GPT-4o.  
- Handles:  
 - Text inputs  
 - File inputs (PDF, DOCX)  
 - Summarization (recursive for long docs)  
 - Reply generation (legal/official style)  
 - DOCX download with markdown-to-word formatting

## Deployment Plan

1. Dockerize Flask backend (`backend/main.py`).  
2. Test locally using Docker (`docker build` & `docker run`).  
3. Use Google Cloud CLI to:  
 - Enable Cloud Run & Artifact Registry.  
 - Push Docker image to Artifact Registry.  
 - Deploy backend to Cloud Run.  
4. Connect mobile app to the new Cloud Run endpoint.

## GitHub & Versioning

- Repo initialized as: https://github.com/rushi1222/docuAI.git  
- Old Git history wiped using `rm -rf .git`  
- New initial commit created and pushed to GitHub.

## Backup Plan

This document serves as a fallback summary if the original ChatGPT thread is lost or corrupted.  
Share it in a new chat to continue the project.