

## Final PRD (Product Requirements Document) for AI News Summary MVP

I've written the **PRD with the updated cheapest MVP plan** and included a **downloadable version** at the end.

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## PRD: AI News Summary Platform (MVP)

### Overview

#### ◆ Goal:

Build a web platform that provides **AI-generated tweet-style summaries** for selected topics & lets users try their own topics.

#### ◆ Value Proposition:

- **Saves time** by summarizing **high-impact news** every 6 hours.
- Ideal for **decision-makers, investors, entrepreneurs, and traders** who need **quick insights**.
- Allows users to **experiment** with AI-generated summaries for custom topics.

#### ◆ Target Audience:

- **Busy professionals** who need **fast, digestible news**.
  - **Investors, traders, & entrepreneurs** who capitalize on **information delta**.
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## MVP Features

### A) Automated Tweet Summaries (Every 6 Hours)

- ✓ Tracks **3-4 pre-selected topics** (expandable later).
- ✓ **Displayed on the site** (tweet-like format, no Twitter posting yet).
- ✓ **No quote/reply threading for now**.
- ✓ **Formats images like Twitter/X does**.
- ✓ Includes source links, usernames, and topic-relevant hashtags.

### B) “Try It Yourself” - Custom User Queries

- ✓ Users can enter **any topic** to generate a one-time AI summary.
  - ✓ **Logs user queries for analytics & trend discovery.**
  - ✓ **Does not store historical results for custom queries.**
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## → 2 Future Features

- 🚀 **Post summaries to Twitter** under topic-based accounts.
  - 🚀 **Detect “high-intensity” news periods** → Auto-switch to **thread format**.
  - 🚀 **User subscriptions** → Follow specific topics for real-time updates.
  - 🚀 **Users can comment/interact on the website.**
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## ◆ 3 Cheapest MVP Tech Stack

Component	Best Free Option	Why?
Frontend (UI)	Next.js (Vercel) ✓	Free hosting, auto-deployment, real-time updates
Backend (AI Processing & API)	FastAPI (Render OR Replit) ✓	Free-tier, runs CrewAI, scalable
Database (User logs & historical data)	Supabase (PostgreSQL Free Tier) ✓	Better than Firebase for structured data
Task Scheduling (AI automation)	GitHub Actions (Free CRON) ✓	Free job scheduling, auto-runs every 6 hours
Logging & Metrics	Supabase logs OR PostHog (Free student plan) ✓	Light monitoring, no cost

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## 🔧 4 Backend Features & Setup Plan

- ✓ **Stores historical summaries** (for selected topics).
- ✓ **No storage for custom user queries (only logs topics searched).**
- ✓ **Automated CrewAI workflow:**

1. **News Scraper Agent** → Gathers articles every 6 hours.
2. **Content Analyzer Agent** → Extracts key insights.

3. **Tweet Formatter Agent** → Generates a structured, skimmable summary.

✓ **Scheduling (Runs every 6 hours):**

◆ **Option 1 (Best for MVP): GitHub Actions (Free CRON job)**

◆ **Option 2 (More control, later):** Render Scheduled Jobs or Celery + Redis

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## ◆ 5 **Deployment Plan**

✓ **Frontend** → Next.js on Vercel (easy, free).

✓ **Backend** → FastAPI on Render OR Replit (both free, scalable later).

✓ **Database** → Supabase (Free PostgreSQL) to store summaries & logs.

✓ **Logging & Analytics** → PostHog or basic Supabase logging (free for students).