Wednesday, April 23, 2025 4/20/2025

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| TangentJay: A Beginner’s Journey into Full-Stack Development | Abstract  This document outlines the vision and development plan for TangentFlow, a personal project aimed at helping a beginner learn full-stack web development through building a content aggregator. The hub curates trending and educational content using APIs from across the internet, providing users with a centralized platform to discover memes, tech news, game guides, and more. The project not only serves as a portfolio piece but also as a learning tool for web technologies, programming, database management, and potential monetization strategies. It is designed to evolve over time as both skills and ideas grow  Jay B  **Project Name: TangentFlow** **Creator**: TangentJay **Start Date**: April 20, 2025 **Motto**: *WE DO IT LIVE! Aggregation, Amalgamation and Assimilation.* **Purpose**: Learn full-stack dev by building a personal content aggregator from scratch, one step at a time, amoung other skill sets. |

**Beginner Brainstorm Starter Plan for Automated Content Aggregator**

**Project Title:** TangentFlow

**Project Type:** Personal Learning + Portfolio Website

**Goal:** Build a website (and later an app) that curates and displays trending content from various sources using APIs. Content includes STEM subjects, memes, tech news, guides, and learning resources. This aggregator will serve as a flexible placeholder and can expand into more topics and categories over time.

**Main Features to Develop:**

1. Tech/Education News Feed
2. Learning Resources (math, programming, beginner guides)
3. Research Links
4. Interactive content
5. Genre History Sections
6. Search and Filter Options
7. User-friendly Interface (mobile responsive)
8. Expandable Sections (for future topics)

**Skills to Learn/Improve (Full Stack Journey):**

* **Frontend:** HTML, CSS, JavaScript
* **Backend:** Python (Flask or Django),
* **Database:** SQLite
* **APIs:** How to pull data using API endpoints
* **Hosting/Deployment:** GitHub Pages, DigitalOcean, or Heroku

**GitHub student developer pack tools to use that I have:**

1. **Namecheap:** Free .me domain + SSL for 1 year
2. **GitHub Pro:** Private repositories and advanced features
3. **JetBrains:** Free professional IDEs like PyCharm and WebStorm
4. **Heroku:** Free hosting for web apps
5. **DigitalOcean:** $200 free credit for advanced cloud hosting
6. **Frontend Masters:** Learn advanced HTML, CSS, JS
7. **DataCamp:** Courses on Python and data science
8. **Educative:** Learn full-stack and API concepts
9. **Notion:** Project planning and note-taking
10. **Stripe (optional):** Waived fees if adding monetization later

**First Steps:**

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1. Build your first HTML/CSS
2. Learn basic Git + GitHub (commit, push, repo)
3. Set up free hosting with GitHub Pages
4. Add a basic section using static content
5. Learn to use an API
6. Create Notion dashboard to track learning + ideas

**Stretch Goals (Later):**

* Add user accounts and preferences
* Web crawling or scraping tools
* Machine learning for content sorting or recommendation
* Monetization through ads, affiliate links, or premium features
* TBA
* TBA

**Beginner Monetization Options:**

1. **Display Ads:** Use Google AdSense or similar to show ads based on user interests.
2. **Affiliate Links:** Link to books, courses, or products and earn a commission.
3. **Donations:** Add a "Buy Me a Coffee" or Ko-fi button for supporters.
4. **Email Newsletter:** Build an audience and promote affiliate content or products.
5. **Freemium Add-Ons (Later):** Free content hub + optional paid resources/tools.
6. **TBA**

**Reminder:** **This is a beginner project. The point is to *learn by doing*. Keep it fun, keep it simple, and grow it piece by piece. Don’t worry about scaling, hosting fees, or monetization until the core is working!**

**Motto:** "WE DO IT LIVE!”; Aggregation, Amalgamation And Assimilation.

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\*\* with links to basic how to life guides for various beginner task like basic math subjects and links to them via khan academy or so

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improved my GIT skills and made some adjustments on my site.

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Got Vmworkstatioon pro setup again~