Usecase : Generate an end to end Langgraph Application for automating the workflow of the architecture of orchestrator and synthesizer(Think of different usecase) using open source LLM models and make sure to debug with the help of Langsmith

[Input: topic] --> [Orchestrator]

|

v

[idea\_node] --> [research\_node] --> [Synthesizer]

(Ideas) (Research) |

v

[draft\_node] --> [synthesize\_node]

(Draft) (Final Post)

|

v

[Output: final\_post]

 **Orchestrator**: idea\_node + research\_node (sets up the raw materials).

 **Synthesizer**: draft\_node + synthesize\_node (builds and refines the output).

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* **How It Works**:
  + **State Management**: Uses CampaignState to pass data (topic, ideas, research, draft, final\_post) between nodes.
  + **Task Coordination**: Starts at idea\_node, moves to research\_node, then draft\_node, and finally synthesize\_node.
  + **Execution**: app.invoke(initial\_state) runs the entire sequence, orchestrating the flow from input to output.
* **Orchestrator Nodes**:
  + **generate\_ideas**: Initiates the process by generating campaign ideas.
  + **research\_audience**: Gathers external data (audience trends) to inform the content.

**2. Synthesizer**

* **Role**: Combines and refines inputs into a final, polished output.
* **Implementation**: The **later nodes** (draft\_content and synthesize\_post) serve as the Synthesizer, taking raw inputs and producing a cohesive blog post.

### How It Executes

* **User Input**: "Eco-Friendly Products" via Streamlit.
* **Orchestrator**:
  + idea\_node: Generates "1. Green Swap Event 2. Eco-Challenge 3. Sustainable Fair".
  + research\_node: Fetches "Gen Z favors eco-brands...".
* **Synthesizer**:
  + draft\_node: Writes "Eco-friendly products are hot! Host a swap event...".
  + synthesize\_node: Refines to "In 2025, eco-friendly products shine...".
* **Output**: Displayed in Streamlit, traced in LangSmith.

# Marketing Campaign Generator

Enter a topic to create a blog post with Groq.

Campaign Topic



**Generate**

### **Ideas**

Sure, I'd be happy to help brainstorm some creative marketing campaign ideas for the Vote for Vijay Party Name TVK! Here are three ideas:

1. "TVK Takes the Streets": This campaign could involve organizing a series of public events and rallies in different neighborhoods and communities throughout the city. The events could feature live music, speeches from TVK party leaders, and opportunities for attendees to register to vote and learn more about the party's platform. To make the events even more engaging, TVK could encourage attendees to share their experiences on social media using a branded hashtag, such as #TVKTakesTheStreets.
2. "TVK's Vision for the Future": This campaign could involve creating a series of short, visually striking videos that showcase TVK's vision for the city's future. The videos could highlight the party's key policy proposals, such as improving public transportation, investing in education, and promoting economic development. To make the videos more shareable, TVK could encourage supporters to share them on social media with a call to action, such as "Join us in building a better future for our city. Vote TVK!"
3. "TVK's Grassroots Movement": This campaign could involve mobilizing TVK's grassroots supporters to spread the word about the party and its platform. TVK could create a toolkit of resources, such as social media graphics, flyers, and talking points, that supporters can use to promote the party in their own networks. To incentivize supporters to get involved, TVK could offer prizes or recognition for the most effective grassroots campaigns. For example, the supporter who generates the most social media engagement could be featured on the party's website or invited to speak at a rally.

I hope these ideas are helpful in getting started on your marketing campaign for TVK! Let me know if you have any questions or need further brainstorming.

### **Research**

A week after the party's first conference in Villupuram's Vikravandi, where the popular actor addressed a crowd of lakhs—mostly young people—TVK functionaries told ThePrint that they were now working on strengthening the party's organisational structure across the state by appointing district leaders and setting up an IT wing.. The leaders said Vijay would be directly engaging with ... Mission 2026: One Year of Vijay's TVK Party - Positives & Negatives Report மு.இந்துமதி Published: 03 Feb 2025 6 AM Updated: 03 Feb 2025 6 AM If Vijay can correct the course of these early mistakes, TVK has the potential to significantly disrupt the established political order in Tamil Nadu. Parties like ADMK, NTK, PMK, and VCK are likely to lose a substantial portion of their vote share to TVK. Specifically, it's estimated that 75% of NTK's 8% vote share could shift to TVK ...

### Draft

Title: "Vote for TVK: A New Era of Politics in Tamil Nadu"

Introduction:

Are you ready for a change in Tamil Nadu's political landscape? Look no further than TVK, the new party on the block that's shaking things up and gaining momentum. Founded by beloved actor Vijay, TVK is on a mission to correct the mistakes of the past and build a brighter future for the state.

A Week of Progress:

Just one week after TVK's first conference in Villupuram's Vikravandi, where Vijay addressed a crowd of lakhs, the party is already making strides in strengthening its organizational structure across the state. With the appointment of district leaders and the creation of an IT wing, TVK is poised to make a significant impact in Tamil Nadu's political scene.

**Campaign Ideas:**

To help TVK continue its momentum, here are three creative marketing campaign ideas:

1. "TVK Takes the Streets": Let's bring TVK to the people with a series of public events and rallies in different neighborhoods and communities. These events will feature live music, speeches from TVK leaders, and opportunities for attendees to register to vote and learn more about the party's platform. Attendees can share their experiences on social media using the hashtag #TVKTakesTheStreets.
2. "TVK's Vision for the Future": Let's showcase TVK's vision for Tamil Nadu's future with a series of short, visually striking videos. These videos will highlight the party's key policy proposals, such as improving public transportation, investing in education, and promoting economic development. Supporters can share the videos on social media with a call to action to join TVK in building a better future.
3. "TVK's Grassroots Movement": Let's mobilize TVK's grassroots supporters to spread the word about the party and its platform. We'll create a toolkit of resources, such as social media graphics, flyers, and talking points, that supporters can use to promote the party in their own networks. Supporters can earn recognition and prizes for the most effective grassroots campaigns.

Conclusion:

With TVK's growing popularity and the mistakes of established parties like ADMK, NTK, PMK, and VCK, it's estimated that TVK could significantly disrupt the political order in Tamil Nadu. If Vijay can correct the course of TVK's early mistakes, the party has the potential to gain a substantial portion of these parties' vote share.

Join the movement and vote for TVK in the upcoming elections. Together, we can build a better future for Tamil Nadu.

### **Final Post**

Title: "Vote for TVK: A New Era of Politics in Tamil Nadu"

Introduction:

Are you tired of the same old political parties in Tamil Nadu? Look no further than TVK, the new party on the block that's shaking things up and gaining momentum. Founded by beloved actor Vijay, TVK is on a mission to correct the mistakes of the past and build a brighter future for the state.

A Week of Progress:

Just one week after TVK's first conference in Villupuram's Vikravandi, where Vijay addressed a crowd of lakhs, the party is already making strides in strengthening its organizational structure across the state. With the appointment of district leaders and the creation of an IT wing, TVK is poised to make a significant impact in Tamil Nadu's political scene.

**Campaign Ideas:**

To help TVK continue its momentum, here are three creative marketing campaign ideas:

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With TVK's growing popularity and the mistakes of established parties like ADMK, NTK, PMK, and VCK, it's estimated that TVK could significantly disrupt the political order in Tamil Nadu. If Vijay can correct the course of TVK's early mistakes, the party has the potential to gain a substantial portion of these parties' vote share.

Join the movement and vote for TVK in the upcoming elections. Together, we can build a better future for Tamil Nadu.

**Conclusion:**

TVK is more than just a political party; it's a movement for change in Tamil Nadu. With your support, we can make history and usher in a new era of politics in the state. Don't miss your chance to be a part of this exciting movement. Vote for TVK and help us build a better future for all.

Debug this run in LangSmith:

[View Trace](https://smith.langchain.com/projects/p/MarketingCampaign?tab=runs)