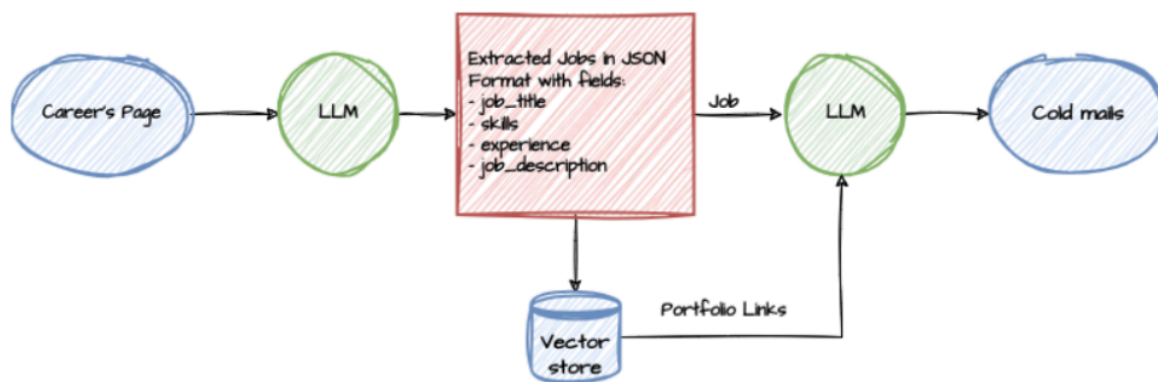Create a tool for service companies using **Groq**, **LangChain**, and **Streamlit** that helps generate personalized cold emails. The tool allows users to input a company's career page URL, extracts job listings, and crafts tailored emails. These emails highlight relevant portfolio links from a vector database, aligning with specific job descriptions.

Example Scenario:
Nike is searching for a *Principal Software Engineer*, investing significant time and resources in hiring, onboarding, and training. Meanwhile, Atliq, a software development company, can provide Nike with a dedicated software engineer to meet their needs efficiently. Mohan, a business development executive at Atliq, plans to approach Nike using this tool to draft an effective cold email.

Week 1: Project Setup and Basic Image Processing

Virtual meeting for week1: [Meeting Link for Week1](#)

Goals:

- Set up the project environment.
- Understand the basics of web scraping and extracting job listings.
- Implement basic operations like fetching and parsing HTML content.

Tasks:

1. **Project Setup:**
   - Create a new Python project directory.
   - Install required libraries:
     - `LangChain`
     - `Streamlit`

- - - **BeautifulSoup**
    - **Groq**
    - Llama
  - How to set up Python in Visual Studio Code:
    - [Watch Video](#)
2. **Basic Functionalities:**
   - **Web Scraping:**
     - Fetch and parse HTML content from a company's career page.
     - Extract job listings using libraries like **BeautifulSoup** or **Requests**.
     - [Learn Web Scraping Basics](#)
   - **Input Handling:**
     - Allow users to input a URL through **Streamlit**.
     - Validate the URL before processing.
   - **Data Output:**
     - Display extracted job listings in a user-friendly format using **Streamlit**.

Expected Outcome:

- Interns should understand how to set up the environment and tools.
- Interns should be able to extract and display job listings from a career page.

Week 2: Personalized Email Generation

Virtual Meeting for Week 2: [Meeting Link week-2](#)

Goals:

- Understand the structure and tone of cold emails.
- Use **LangChain** to generate personalized emails.
- Incorporate extracted job data into the emails.

Tasks:

1. **Email Template Creation:**
   - Define an email template with placeholders for job-specific details (e.g., job title, company name).

📧 Cold Mail Generator 🔗

Enter a URL:

https://jobs.nike.com/job/R-33460

[Submit]

```
Subject: Expert Software Engineering Services for Nike's AIML Platforms

Dear Hiring Manager,

I came across the job description for a Software Engineer II - AIML Platforms at Nike, and I'm excited to introduce AtliQ, an AI

With our expertise in computer systems and machine learning, we can help you scale your platform to serve Nike globally. Our tea

At AtliQ, we've empowered numerous enterprises with tailored solutions, fostering scalability, process optimization, cost reduct

* https://example.com/ml-python-portfolio
* https://example.com/devops-portfolio

We'd love the opportunity to discuss how our expertise can help Nike achieve its goals. Please let me know if you'd like to sche

Best regards,

Mohan
Business Development Executive
AtliQ
```

Example:

- Copy code

```
Hi [Recruiter Name],

I noticed that [Company Name] is looking for a [Job Title]. We
specialize in providing dedicated software developers who can
seamlessly integrate with your team.

Here's a portfolio of our work: [Portfolio Links].

Looking forward to discussing how we can help streamline your hiring
process.

Best regards,
```

    ○

2. **Text Generation Using LangChain:**
   ○ Use LangChain's LLM (Language Model) capabilities to dynamically fill in placeholders.
   ○ Pass job titles, company names, and other relevant data extracted in Week 1.
   ○ [Learn LangChain Basics](#)
3. **Portfolio Link Integration:**
   ○ Integrate with a vector database (e.g., Pinecone, Weaviate) to fetch relevant portfolio links.
   ○ Use embeddings to match job descriptions to similar projects in the database.
4. **Streamlit Integration:**
   ○ Add a form in Streamlit for users to input their name, company name, and additional details.
   ○ Display the generated email in a copyable or downloadable format.

Expected Outcome:

● Interns should be able to generate personalized cold emails using job listing
● The emails should include portfolio links relevant to the job description.