# Project Title:

AI Personalized Email Generator

# Team Name:

# Hack Ver’s

# Team Members:

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# Phase 1: Brainstorming & Ideation

**Objective:**

Develop an AI-powered tool that automates personalized email drafting.

**Key Points:**

# 1.Problem Statement:

# Manually drafting personalized emails is time-consuming and inconsistent..

* Businesses and professionals need a tool to generate high-quality, customized emails quickly.

# 2.Proposed Solution:

* An AI-based email generator leveraging advanced language models to draft customized emails based on user inputs.
* The system extracts details from job postings and user portfolios to craft context-aware emails.

# 3.Target Users:

* Job seekers needing personalized cold emails.
* Sales and marketing professionals looking for optimized outreach messages.
* Businesses seeking automation in email drafting.

# 4.Expected Outcome:

* A functional AI-powered email generator that produces high-quality, tailored emails efficiently.

# Phase 2: Requirement Analysis

### **Objective:**

* Define the technical and functional requirements for the AI Personalized Email Generator.

**Key Points:**

**1.Technical Requirements:**

* **Programming Language:** Python
* **Backend:** Lang Chain for AI model processing
* **Frontend:** Stream lit Web Framework
* **Database:** Chroma DB for storing user portfolio data

# 2.Functional Requirements:

* Ability to scrape job postings and extract relevant details.
* Process user portfolio data to match skills with job requirements.
* Generate and display AI-crafted emails.

# Provide an intuitive user interface for inputting job links and retrieving emails.

# 3.Challenges:

* Ensuring accurate job data extraction from various job boards.
* Handling API rate limits and optimizing queries.
* Improving email personalization based on limited input data.

# Phase 3: Project Design

### **Objective:**

Design the architecture and user flow of the application.

**Key Points:**

**1.System Architecture:**

* User inputs a job URL.
* The system scrapes job details using Webisode.
* AI model processes the data and extracts relevant skills.
* Portfolio data is queried to find matching skills.
* AI generates a personalized email based on the extracted details.

**2.User Flow:**

* Step 1**:** User enters a job URL.
* Step 2: System extracts job details and matches them with portfolio skills.
* Step 3: AI drafts an email, which is displayed in the UI

# 3.UI/UX Considerations:

* Clean and minimalist interface.
* Simple input fields for URL submission.
* Display of AI-generated emails in a structured format.