

Hackathon Project Phases Template

Project Title:

AI Personalized Email Generator

Team Name:

AI WIZARDS

Team Members:

- Nagarjuna Raju
- Ram Manikanta
- Ganesh Pasupuleti

Phase-1: Brainstorming & Ideation

Objective: Develop an AI-powered tool that automates the creation of personalized emails using AI.

Problem Statement:

- Manual email drafting is time-consuming.
- Need for efficient, professional communication.

Proposed Solution:

- AI-powered web application for quick email generation.
- Uses Google Gemini AI for high-quality outputs.

Target Users:

- Business professionals, HR, sales teams.

Expected Outcome:

- A functional AI email generator for personalized, efficient communication.

Phase-2: Requirement Analysis

Technical Requirements:

- Python, Streamlit, Google Gemini AI API.

Functional Requirements:

- Accepts user inputs and generates professional emails.

Constraints & Challenges:

- Ensuring AI-generated emails are contextually appropriate.
- API rate limits and UI optimization.

Phase-3: Project Design

System Architecture:

1. User enters email details.
2. AI processes input and generates email.
3. Email preview is displayed.

User Flow:

1. Input email details.
2. AI generates content.
3. Display preview.
4. Reset if needed.

UI/UX Considerations:

- Clean, structured interface.
- Professional email preview.
- Light & dark modes.

Phase-4: Project Planning (Agile Methodologies)

Sprint Planning:

Sprint 1: Setup & API Integration.

Sprint 2: Email Generation & Debugging.

Sprint 3: UI Enhancements & Testing.

Phase-5: Project Development

Technology Stack:

- Python, Streamlit, Google Gemini AI API.

Challenges & Fixes:

- Optimizing API response time.
- Enhancing UI responsiveness.

Phase-6: Functional & Performance Testing

Test Cases:

- Generate an email with valid inputs (Passed).
- Handle missing fields correctly (Passed).
- Ensure API response is fast (Needs Optimization).

Final Submission

1. Project Report.
2. Demo Video (3-5 Minutes).
3. GitHub Repository.
4. Final Presentation.