

Hackathon Project Phases Template

Project Title:

SmartResume Generator: Customized Resumes for Every Opportunity

Team Name: TECH GENIUS

(Provide your team's name)

Team Members:

Member 1:N.PUJITHA

Member 2:A.SRIVALLI

Member 3:J.JANAKI

Member 4:K.VARALAXMI

Phase-1: Brainstorming & Ideation

Objective:

Develop an advanced AI-powered resume generator that enables users to create highly customizable resumes tailored for various job opportunities.

Key Points:

1. Problem Statement:

Many job seekers struggle to create resumes that stand out and match specific job requirements.

Lack of personalization, formatting flexibility, and real-time AI assistance in most existing resume builders.

2. Proposed Solution:

SmartResume Generator will provide AI-based resume suggestions, multiple customizable templates, and interactive elements like QR codes and multilingual support.

Users can import data from LinkedIn, apply filters, drag & drop sections, and export in multiple formats (PDF, Word, PNG, JSON, HTML)

3. Target Users:

Job seekers from various industries.

Students and fresh graduates needing their first resume.

Professionals looking to optimize their resumes for career advancement.

4. Expected Outcome:

A feature-rich resume generator that allows users to create visually appealing and ATS-friendly resumes.

Phase-2: Requirement Analysis

Objective:

Define the technical and functional requirements for SmartResume Generator.

Key Points:

1. Technical Requirements:

Frontend: React.js / Vue.js

Backend: Node.js / Flask / FastAPI

Database: MongoDB / Firebase / PostgreSQL

AI Models: GPT-based AI for resume suggestions

Cloud Storage: Google Drive / AWS S3

2. Functional Requirements:

Resume Templates: Multiple formats with customization options.

Theme Customization: Fonts, colors, background textures.

AI-based Resume Suggestions: Real-time improvements and content structuring.

Live Preview: Immediate updates while editing.

QR Code Feature: Interactive, clickable links to portfolio/contact info.

Export & Print Options: PDF, Word, PNG, JSON, HTML.

Multilingual Support: Support for multiple languages.

3. Constraints & Challenges:

Implementing real-time AI-based resume improvements.

Ensuring seamless drag-and-drop functionality.

Handling large amounts of user-generated content securely.

Phase-3: Project Design

Objective:

Develop the system architecture and user flow of the SmartResume Generator.

Key Points:

1. System Architecture:

User enters resume details via an intuitive UI.

AI model analyzes and suggests resume enhancements.

Backend processes and stores resume data.

Frontend updates the resume in real time with live preview.

2. User Flow:

Step 1: User selects a template and enters personal details.

Step 2: AI provides real-time suggestions for improvements.

Step 3: Users can customize themes, colors, and layouts.

Step 4: Resume is previewed in real time and exported in the preferred format.

3. UI/UX Considerations:

Minimalist, easy-to-navigate interface.

Drag-and-drop functionality for sections.

Light & dark mode support

Phase-4: Project Planning (Agile Methodologies)

Objective:

Plan the development tasks in an agile framework.

Phase-5: Project Development

Objective:

Implement the core features of SmartResume Generator.

Key Points:

1. Technology Stack Used:

Frontend: React.js / Vue.js

Backend: Node.js / Flask

AI Integration: GPT-4 API for suggestions

Database: MongoDB / Firebase

2. Development Process:

Develop an intuitive UI with real-time preview.

Implement AI-based suggestions for resume optimization.

Build export functionalities for multiple formats.

Ensure cloud storage and auto-save features.

3. Challenges & Fixes:

Challenge: Performance issues with real-time rendering.

Fix: Optimize state management and rendering.

Challenge: Handling large amounts of user data.

Fix: Implement efficient data storage solutions.

Phase-6: Functional & Performance Testing

Objective:

Ensure that SmartResume Generator functions correctly and efficiently.

Final Submission

1. Project Report (Based on this template)
2. Demo Video (3-5 minutes showcasing key features)
3. GitHub Repository Link (Codebase with documentation)
4. Presentation (Summarizing problem, solution, features, and demo)

This structured format ensures that SmartResume Generator is well-documented, covering all aspects from ideation to final submission. Let me know if you need modifications!