

# Hackathon Project Phases Template

## Project Title:

**Smart Resume Generator: Customized Resumes for Every Opportunity**

## Team Name:

RapidSabers

## Team Members:

- RITVIK RAYADURGAM
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## Phase-1: Brainstorming & Ideation

### Objective:

Create an **AI-powered Smart Resume Generator** that helps users build personalized, compelling resumes. The tool will analyze job descriptions and individual experiences to highlight relevant skills and achievements.

### Key Points:

#### 1. Problem Statement:

- Many job seekers struggle to create tailored resumes that stand out to employers.
- Users need guidance on how to optimize their resumes for different job applications, including ATS compatibility.

## 2. Proposed Solution:

- An AI-powered **Smart Resume Generator** that offers personalized resume building by analyzing job descriptions and user experiences.
- The app provides tips on industry-specific keywords, formatting, and content customization.

## 3. Target Users:

- **Job seekers** looking to create effective resumes for specific positions.
- **Individuals wanting** to improve their resumes using industry insights and ATS advice.
- **Recent graduates** and professionals re-entering the job market.

## 4. Expected Outcome:

A user-friendly **AI application** that helps individuals generate **high-quality, tailored resumes** that increase their chances of **securing interviews**.

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# Phase-2: Requirement Analysis

## Objective:

Define the technical and functional requirements for the **Smart Resume Generator**

## Key Points:

### 1. Technical Requirements:

- Programming Language: **javascript**
- Backend: **javascript**
- Frontend: **HTML,CSS,JS**
- Database: **Not required initially (API-based queries)**

### 2. Functional Requirements:

- Ability to fetch **resume templates** and relevant job description data using an AI integration.
- Display customizable **resume formats, relevant skills**, in a user-friendly interface.
- Provide **real-time tips** on improving resume content based on current job market trends
- Allow users to explore eco-conscious career paths and industries focused on sustainability

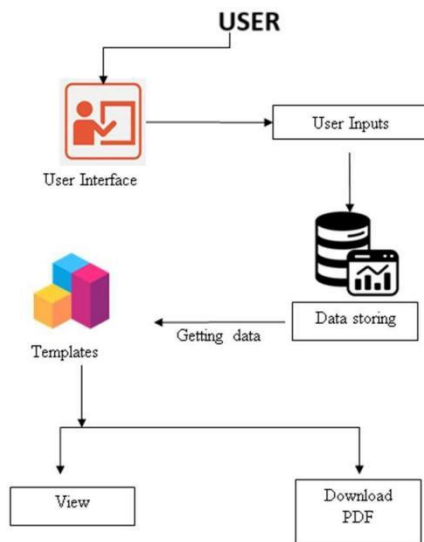
### 3. Constraints & Challenges:

- Providing a seamless particularly with **larger datasets** or complex results
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## Phase-3: Project Design

### Objective:

Develop the architecture and user flow of the application.



### Key Points:

#### 1. System Architecture:

- User inputs a resume-related query via the UI.
- Query is processed using the Smart Resume **Generator's backend algorithms**.
- The AI model analyzes the **query and extracts** relevant resume content.

- The frontend displays tailored resume options, formatting suggestions, and tips for improvement.

## 2. User Flow:

- Step 1: User enters a query (e.g., "Resume template for marketing manager").
- Step 2: The backend processes **the input and retrieves suitable resume templates** and content suggestions.
- Step 3: The app organizes the data and **presents results in a clean, editable format** for user refinement.

## 3. UI/UX Considerations:







- **Intuitive, user-friendly interface** designed for effortless navigation.
- **Filters for experience level, job role, and industry to tailor content recommendations.**
- **Default light mode** for better user experience.

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# Phase-4: Project Planning (Agile Methodologies)

## Objective:

Break down development tasks for efficient completion.

Sprint	Task	Priority	Duration	Deadline	Assigned To	Dependencies	Expected Outcome
Sprint 1	Environment Setup & API Integration	 High	6 hours (Day 1)	End of Day 1	RITVIK	Google API Key, JS	API connection established & working
Sprint 1	Frontend UI Development	 Medium	2 hours (Day 1)	End of Day 1	SREESHANTH	Basic UI with input fields	API response format finalized
Sprint 2	Resume Generation Logic Implementation	 High	3 hours (Day 2)	Mid-Day 2	RITVIK	API response, UI elements ready	API response, UI elements ready
Sprint 2	Error Handling & Debugging	 High	1.5 hours (Day 2)	Mid-Day 2	RITVIK	API logs, UI inputs	Improved API stability
Sprint 3	Testing & UI Enhancements	 Medium	1.5 hours (Day 2)	Mid-Day 2	SREESHANTH	API response, UI layout completed	API response, UI layout completed
Sprint 3	Final Presentation & Deployment	 Low	1 hour (Day 2)	End of Day 2	Entire Team	Working prototype	Demo-ready project

## Sprint Planning with Priorities

### Sprint 1 – Setup & Integration (Day 1)

- (● High Priority) Set up the **environment** & install dependencies.
- (● High Priority) Integrate **Google Gemini API**.
- (● Medium Priority) Build a **basic UI** with input fields.

### Sprint 2 – Core Features & Debugging (Day 2)

- (● High Priority) Implement **search & comparison functionalities**.
- (● High Priority) Debug API issues & handle **errors in queries**.

### Sprint 3 – Testing, Enhancements & Submission (Day 2)

- (● Medium Priority) Test API responses, refine UI, & fix UI bugs.
  - (● Low Priority) Final **demo preparation & deployment**.
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## Phase-5: Project Development

### Objective:

Implement core features of the **Smart Resume Generator**

### Key Points:

#### 1. Technology Stack Used:

- **Frontend:** HTML,CSS,JS
- **Backend:** Google Gemini
- **Programming Language:** Python

#### 2. Development Process:

- Implement **API key authentication** for user data security
- Develop **logic for generating personalised resume content**.
- **Optimize content** retrieval and formatting **suggestions based on user inputs**

### 3. Challenges & Fixes:

- **Challenge:** Inconsistent formatted outputs for different job roles.  
**Fix:** Create **standardized** templates and guidelines to ensure uniformity across resumes.
- **Challenge:** User difficulty in navigating the resume customization options  
**Fix:** Optimize queries to fetch **only necessary data**.

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## Phase-6: Functional & Performance Testing

### Objective:

Ensure that the **Smart Resume Generator** works as expected.

Test Case ID	Category	Test Scenario	Expected Outcome	Status	Tester
TC-001	Functional Testing	Query " Resume template for software developer"	Suitable resume templates should be displayed	■ Passed	Tester 1
TC-002	Functional Testing	Query " Tips for writing a standout resume"	Practical tips should be provided.	■ Passed	Tester 2
TC-003	Performance Testing	API response time under 300ms	API should return results quickly.	⚠ Needs Optimization	Tester 3
TC-004	Bug Fixes & Improvements	Fixed incorrect API responses.	Resume formatting should be accurate.	■ Fixed	Developer
TC-005	Final Validation	Ensure UI is user-friendly and intuitive	UI should be easy to navigate on all devices.	+ Failed - UI Issues	Tester 2
TC-006	Deployment Testing	Host the app using a Cloud service	App should be accessible online.	🚀 Deployed	DevOps

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## Final Submission

1. **Project Report Based on the templates**
2. **Demo Video (3-5 Minutes)**
3. **GitHub/Code Repository Link**
4. **Presentation**

