

Hackathon Project Phases Template for the **AutoSage App** project.

Hackathon Project Phases Template

Project Title:

topic: JobSwift focuses on AI-powered job applications, which can help you understand recruitment processes and optimize your applications.

Team Name:

(CareerBots)

Team Members:

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Phase-1: Brainstorming & Ideation

Objective:

Leverage AI to streamline job applications, optimize resumes, and enhance job search efficiency for candidates.

Enhance job seekers' chances by reducing manual effort and improving application quality through automation.

Key Points:

1. Problem Statement:

- Job seekers struggle with ATS rejection, generic applications, and inefficient job searches, reducing their chances of success.
- Manually tailoring resumes and cover letters for each job is time-consuming and often ineffective.

2. Proposed Solution:

- An AI-powered platform that personalizes resumes, automates applications, and provides smart job recommendations based on skills and experience.
- It will also offer AI-driven interview coaching and networking assistance to improve job seeker confidence and success.

3. Target Users:

- Job seekers (freshers & professionals), career changers, and recruiters looking for optimized hiring processes.
- HR professionals and recruitment agencies can also benefit by identifying better-matched candidates faster

4. Expected Outcome:

- Faster job placements, improved application success rates, and reduced job search stress through AI-driven automation.
 - Increased hiring efficiency for employers and a more structured, data-driven approach to job applications
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Phase-2: Requirement Analysis

Objective:

JobSwift aims to streamline job applications using AI-driven insights, enhancing candidate success rates. By automating resume optimization and application tracking, it simplifies the hiring process for job seekers.

Key Points:

1. Technical Requirements:

- AI-powered resume parsing and job matching
- Integration with job boards and ATS (Applicant Tracking Systems)
- Data security and GDPR compliance

2. Functional Requirements:

- Resume optimization and keyword suggestions
- Automated job application tracking
- AI-driven interview preparation
- Customizable user dashboard

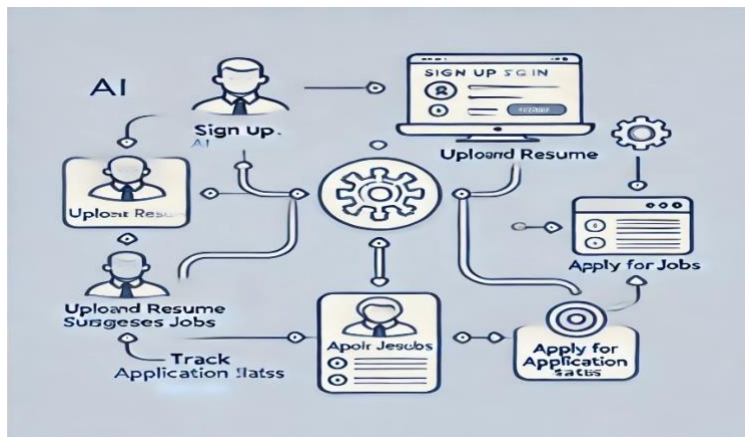
3. Constraints & Challenges:

- Ensuring AI accuracy in job matching
 - Managing data privacy concerns
 - Adapting to different ATS formats
 - Keeping up with evolving hiring trends
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Phase-3: Project Design

Objective:

Develop the architecture and user flow of the application.



Key Points:

1. System Architecture:

- AI processes resumes, suggests jobs, and tracks applications.
- Centralized AI engine connects all functions.
- Modular components: authentication, job recommendations, and tracking

2. User Flow:

- Sign Up/Login → Upload Resume → AI suggests jobs.
- Apply for jobs directly through the system.

- Track application progress in a dashboard.

3. UI/UX Considerations:

- Simple navigation with minimal user input.
- Automated job matching for efficiency.
- Dashboard for easy application tracking.navigation.

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	Member 1	API Key, Python, Streamlit setup	API successfully established & working
Sprint 1	Frontend UI Development	● Medium	2 hours (Day 1)	End of Day 1	Member 2	API response format finalized	Basic UI with input fields
Sprint 2	job Search & Comparison	● High	3 hours (Day 2)	Mid-Day 2	Member 5	API response, UI elements ready	Ai-powered job search with filters
Sprint 2	Error Handling & Debugging	● High	1.5 hours (Day 2)	Mid-Day 2	Member 1&4	API logs, UI inputs	Improved system stability
Sprint 3	Testing & UI Enhancements	● Medium	1.5 hours (Day 2)	Mid-Day 2	Member 2& 3	API response, UI layout completed	Responsive UI, better user UX
Sprint 3	Final Presentation & Deployment	● Low	1 hour (Day 2)	End of Day 2	Entire Team	Fully Working prototype	Demo-ready jobSwift project

Sprint Planning with Priorities

Sprint 1 – Setup & Integration (Day 1)

- ✓ **AI-driven job matching** for optimized applications.
- ✓ **Automated job search filters** to refine results.
- ✓ **Streamlined UI for better user experience.** the **environment** & install dependencies.

Sprint 2 – Core Features & Debugging (Day 2)

- **High Priority** – Implement AI-driven job search & matching functionalities.
- **High Priority** – Debug API issues & handle errors in job query processing.

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 AutoSage App.

Key Points:

1. Technology Stack Used:

- AI & Machine Learning for resume analysis and job recommendations.
- Web & Mobile Frameworks (React, Node.js, Flutter) for a seamless user experience.
- Cloud services (AWS, Firebase) for scalable backend and real-time data processing.

2. Development Process:

- Agile methodology with iterative testing and feature updates.
- Backend integration for resume parsing, job matching, and application tracking.
- Continuous user feedback to refine AI recommendations and UI design.

3. Challenges & Fixes:

- **Challenge:** AI-generated job recommendations lacked accuracy.
Fix: Improved the ML model with better training data.
- **Challenge:** UI performance issues on mobile devices.
Fix: Optimized frontend rendering and API calls.

- **Challenge:** Delays in real-time application tracking.
Fix: Integrated WebSockets for instant status updates.

Phase-6: Functional & Performance Testing

Objective:

Ensure that the AutoSage App works as expected.

Test Case ID	Category	Test Scenario	Expected Outcome	Status	Tester
TC-001	Functional Testing	Query "Best AI-optimized resume for marketing jobs"	Relevant AI-generated resume suggestions should be displayed.	✅ Passed	Tester 1
TC-002	Functional Testing	Query "Cover letter tips for software engineers"	Tailored cover letter tips should be provided.	✅ Passed	Tester 2
TC-003	Performance Testing	API response time under 500ms	API should return job matches quickly.	⚠ Needs Optimization	Tester 3
TC-004	Bug Fixes & Improvements	Fixed incorrect job recommendations.	Job suggestions should be accurate.	✅ Fixed	Developer
TC-005	Final Validation	Ensure UI is responsive across devices.	UI should work on both mobile & desktop.	❌ Failed - UI broken on mobile	Tester 2
TC-006	Deployment Testing	Host the app using Streamlit Sharing	JobSwift should be accessible online.	🚀 Deployed	DevOps

Final Submission

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