# Hackathon Project Phases Template

## Project Title:

AI Powered Ethical decision Tool.

## Team Name:

SCARFACES

## Team Members:

S .Vivek Royal  
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## Phase-1: Brainstorming & Ideation

Objective: To develop an AI-powered ethical decision assistant that empowers policymakers, business leaders, and educators to explore complex ethical scenarios, analyze potential consequences, and make more informed and responsible decisions.

Problem Statement: Rapid technological advancements are creating complex ethical dilemmas with far-reaching consequences. Traditional ethical analysis methods are slow, subjective, and limited. There's a need for a tool to efficiently generate and analyze diverse ethical scenarios, aiding informed decision-making.

### Proposed Solution:

### "Minister AI” will be a web-based application leveraging the advanced reasoning capabilities of Mistral AI to:

### Allow users to input policy or business questions related to ethical challenges.

### Generate detailed, context-rich ethical scenarios based on user input.

### Analyze and present a range of potential consequences (positive and negative) for each scenario.

### Summarize relevant ethical principles and frameworks that apply to the scenarios.

### Target Users:

- Business Leaders.  
- Educators.  
- Policymakers.

### Expected Outcome:

## Better, safer decisions: Informed choices with less risk.

## Increased ethical understanding: Improved awareness and application.

## Greater trust and responsibility: Promotes transparency and ethical tech.

## Phase-2: Requirement Analysis

Objective: Define the technical and functional requirements of the AI Powered Ethical decision Tool.

### Technical Requirements:

- AI model integration  
- Front-End Development  
- Back-End Develepmont  
- Database: Not required initially

### Functional Requirements:

- User input  
- Scenario Generation  
- consequence analysis  
- Ethical Framework integration

-Feedback and Learning

## Phase-3: Project Design

Objective: Design the architecture and user experience for AI Powered Ethical decision Tool.

### System Architecture:

1.Modular Design (front-end, back-end, AI engine).  
2. Cloud deployment (need to be done).  
3. Scalable and reliable infrastructure.

### UI/UX Considerations:

- Simple and clean interface.  
- Interactivity (exploring scenarios , user choices ).  
- user feedback mechanism and Accessibility.

## Phase-4: Project Planning (Agile Methodologies)

### Sprint Planning:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint | Task | Priority | Duration | Deadline | Assigned To |
| Sprint 1 | Environment Setup & API Integration | High | 6 hours | Day 1 | Vivek |
| Sprint 2 | Front-end development | High | 4 hours | Day 2 | Sathya |
| Sprint 3 | Database- management | Medium | 3 hours | Day 2 | Sathwiikk and Ravindra |
| Sprint 3 | Testing & Deployment | Medium | 3 hours | Day 2 | Entire Team |

## Phase-5: Project Development

**Objective:**

Implement core features of AI powered ethical decision making tool.

**Key Points:**

**Problem:** Complex ethical dilemmas in a rapidly evolving tech landscape.

**Solution:** AI-powered ethical decision assistant using Mistral AI.

**Users:** Policymakers, business leaders, educators.

**Outcomes:** Better decisions, ethical understanding, responsible tech use.

**Architecture:** Modular design, cloud deployment.

**UX/UI:** Clarity, visualizations, interactivity, accessibility

**Development Process:**

1. **Requirements:** Define scope, gather needs, research ethics.
2. **Design:** System architecture, UI/UX, security.
3. **Development:** Front-end, back-end, AI integration, database, testing.
4. **Testing:** Unit, integration, user acceptance, performance, security.
5. **Deployment:** Cloud platform, CI/CD.
6. **Monitoring:** Performance, user feedback, continuous improvement

**Challenges & Fixes:**

* **AI Bias:** Carefully curate data, use bias detection, allow user feedback.
* **Ethical Nuance:** Advanced AI, refined prompts, diverse frameworks, user customization.
* **Over-Reliance:** Encourage critical thinking, provide resources, emphasize human judgment.
* **Data Privacy:** Strong security, comply with regulations, transparency, user control.
* **Development Speed:** Prioritize MVP, iterative approach, testing, ethical experts.
* **Evolving Ethics:** Stay informed, update AI, engage community, flexible system.

## Phase-6: Functional & Performance Testing

### Test Cases:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case ID | Test Scenario | Expected Outcome | Status | Tester |
| TC-001 | Response Generation(Mistral AI) | Relevant output to the given prompt | ✅ Passed | Vivek |
| TC-002 | Front-end development | Desired interface developed | ✅ Passed | Entire team |
| TC-003 | Database management | Desired schema for the database . | ✅ Passed | Sathwikk and ravindra |
| TC-004 | Integration of API code with front-end code | Working of the model | ✅ Passed | Entire team |
| TC-005 | Integration of Database | Users login credentials to be stored | ❌ Failed - Needs Fix | Entire team |
| TC-006 | Deployment Testing | Local host | 🚀 Deployed | Terminal (local device) |
| TC-007 | Deployment into web | Global Host | Not deployed | ----------------- |

## Final Submission:

- Project Report  
- Demo Video  
- GitHub Repository Link  
- Final Presentation