

# **Problem Statements**

\*\*Note:\*\* The ideas provided are just for reference. Feel free to refine, reimagine, or develop entirely new concepts using your own creativity and insights.

# 1. Roadside Assistance & Emergency Support

**Problem:** Vehicle breakdowns in remote areas can leave individuals stranded without easy access to mechanics or roadside assistance. Finding help in such situations is often difficult, leading to inconvenience, delays, and safety concerns.

Idea:

- Develop a web application that connects users with nearby mechanics and roadside assistance services using GPS-based location tracking.
- Enable real-time tracking of assistance vehicles, ensuring users stay informed about estimated arrival times.
- Allow users to review and rate service providers, ensuring reliability and trustworthiness.
- Integrate secure digital payment options for a seamless and hassle-free transaction experience.
- Implement robust data privacy protections to safeguard user information and enhance trust.

# 2. Interactive map web application for real time crime reporting

**Problem:** Traditional crime reporting systems often lack interactivity and accessibility, limiting the public's ability to report incidents in real-time. This delays law enforcement response and hinders proactive crime prevention efforts.



Idea:

- Develop an interactive map-based application that enables citizens to report crimes and incidents in real-time.
- Allow users to view crime data on an interactive map, helping communities stay informed about local safety concerns.
- Provide law enforcement agencies with valuable data to enhance proactive crime prevention measures.
- Implement real-time notifications to update users on ongoing investigations and crime trends.
- Foster seamless communication between citizens and law enforcement to improve public safety and community engagement.

# 3. Education & Skill Development

**Problem:** Access to quality education and skill development opportunities remains a challenge for many individuals due to financial constraints, lack of resources, or outdated learning methods. Traditional education systems often fail to provide personalized learning experiences, making it difficult for students to acquire relevant skills efficiently.

#### Idea:

- **AR/VR Learning Platform:** Build an immersive AR/VR application that enables experiential learning in subjects like physics, history, and engineering, making complex concepts more interactive and engaging.
- Al Teaching Assistant: Develop an Al-powered assistant that analyzes a student's progress and provides personalized learning recommendations based on strengths and weaknesses.
- **Skill Barter Marketplace:** Create a peer-to-peer platform where users can exchange skills, such as learning photography in exchange for coding lessons, fostering a collaborative learning ecosystem.

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# **Guidelines for preparing 'Idea Document'**

The purpose of this documentation is to evaluate your thinking ability, creativity, and understanding of the real-world problem you have chosen. Please ensure that your submission is clear, concise, and well-structured.

Use the following points as a guide:

#### 1) Team Name and Member Details

- Team Name: A creative and unique name representing your team.

- Member Details: List the name, role, and skills of each team member (e.g., developer, designer, project manager).

#### 2) Problem Statement

- Chosen Problem: Clearly state the problem statement you are addressing.
- Problem Analysis: Briefly describe the real-world context and its significance.
- Target Audience: Identify the primary users or beneficiaries of your solution.

#### 3) Solution Overview

- Brief Explanation: Summarize your solution and how it addresses the problem.
- Approach: Describe your methodology and how it solves specific pain points.
- Uniqueness: Explain what makes your solution distinct from existing approaches.

#### 4) Frameworks/Technologies

- Tech Stack: List the frameworks, libraries, and technologies you plan to use.
- Reasoning: Explain your choices (e.g., scalability, ease of use, cost-effectiveness).
- Assumptions & Constraints: Highlight key assumptions and anticipated challenges.

#### 5) Feasibility and Implementation

- Implementation Ease: Discuss development and deployment feasibility.
- Effectiveness: Describe how well your solution addresses the problem.



#### 6) UI/UX Mockup

- Screens Overview: Include wireframes or mockups showcasing the interface.
- User Flow: Explain the user journey and key interactions.
- Accessibility Considerations: Highlight design decisions for broader accessibility.

#### 7) Business Scope and Use Case

- Use Case Scenarios: Provide real-world examples of your solution in action.
- Market Need: Explain the demand for your solution.
- Revenue Model (Optional): Suggest monetization strategies if applicable.

8) System Design and Architecture (Optional)

- Technologies Overview: Describe key technologies and tools.
- Design Patterns: Mention design patterns used (e.g., MVC, microservices).
- Functional Flow: Include diagrams like flowcharts or system architecture.

#### 9) Coding Approach

- Development Strategy: Outline your coding methodology (e.g., Agile, modular design).
- Coding Standards: Specify best practices like code reviews or testing.

#### 10) Additional Supporting Documents (Optional)

- Market Research: Provide supporting data or research.
- Competitor Analysis: Compare your solution with existing ones.
- References: Include links or references used.

#### **11) Presentation (Optional)**

- Summary Slides: Prepare 5–7 slides covering the problem, solution, tech stack, UI/UX, and implementation strategy.

- Pitch Focus: Ensure your presentation highlights key aspects effectively.

#### **General Tips:**

- - Clarity & Precision: Use concise language and visuals for clear communication.
- - Proofread: Avoid spelling and grammar errors.
- - Originality: Focus on unique, impactful ideas that address real-world challenges.