MerdiAI

Project Proposal

Text to Diagram Maker

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Table of Contents

1.0 Executive Summary

Merdial is an AI powered, web-based platform. Its main purpose is to automatically turn text descriptions (scenarios) into visual diagrams and flowcharts. The project aims to reduce the time and effort needed to create diagrams, which will help improve efficiency for users.

2.0 Problem Statement

In business, tech, and education, flowcharts and diagrams are essential for explaining ideas and processes. However, creating these diagrams is often a challenge because:

- **It is time consuming:** Drawing diagrams manually or using special software takes a lot of time.
- **It requires special knowledge:** People who are not from a technical background may need training to use software like Visio or Lucidchart.
- **It slows down creativity:** The difficulty in quickly diagramming an idea can interrupt the creative process.

3.0 Proposed Solution

Merdial offers a direct solution to these problems. Users only need to type their idea or process into a simple text box. Our AI system will analyze the text and instantly generate a logical flowchart based on the description.

4.0 Project Scope

4.1 In-Scope

- **Landing Page:** An attractive welcome page that introduces the platform.
- **AI Graph Creation Interface:** The main page where a user can enter their scenario and view the resulting diagram.
- **Contact Page:** A page with contact information and a form for user feedback and questions
- **Frontend Development:** Building the user interface using React.
- **AI Integration:** Connecting the Mistral AI model through OpenRouter

4.2 Out-of-Scope

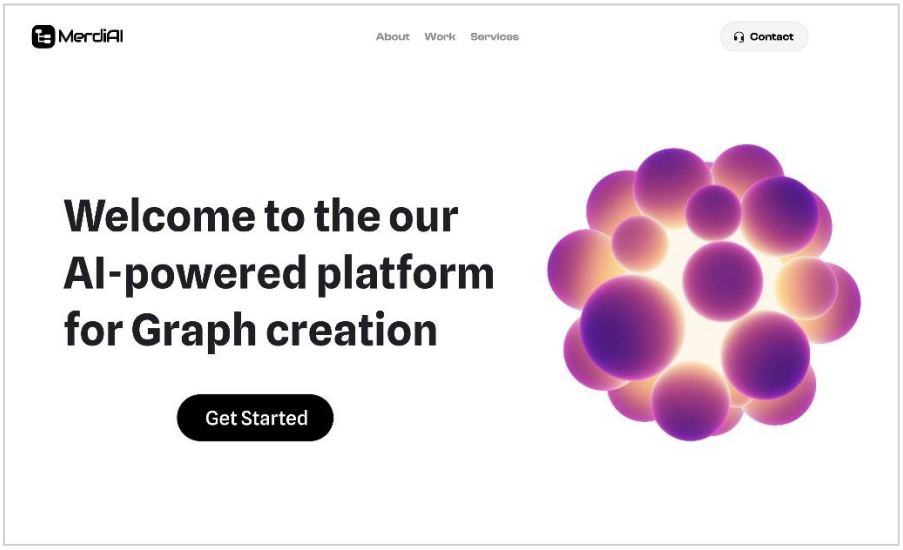
- User accounts and login systems.
- Features to save, export, or share the created diagrams.
- Support for multiple languages.
- Real-time collaboration features for teams.

5.0 Visual Design & UX (Wireframes)

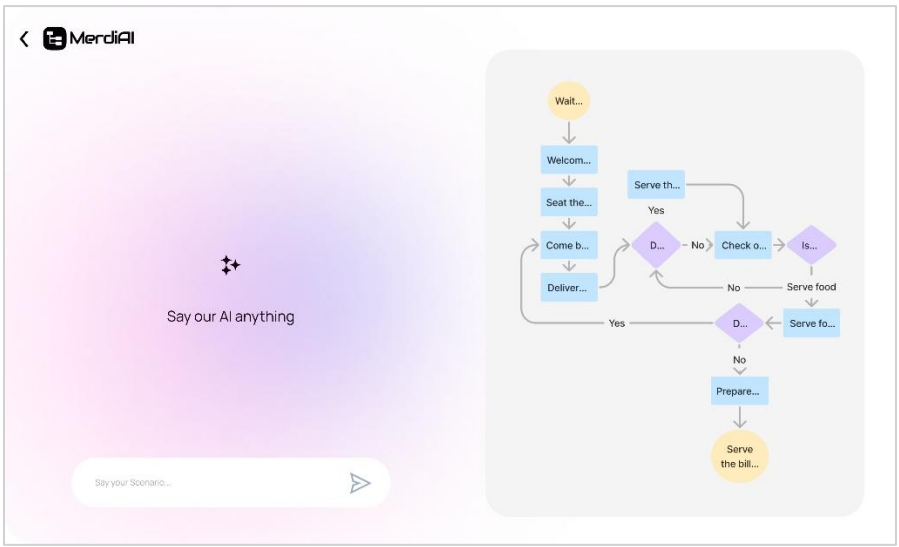
The project's user experience (UX) will be based on the provided Figma designs.

https://www.figma.com/proto/GBDzF8s6KNcSOPjTy5F16D/MerdiAI?node-id=0-1&t=4FjnyD6fs2gW60qG-1

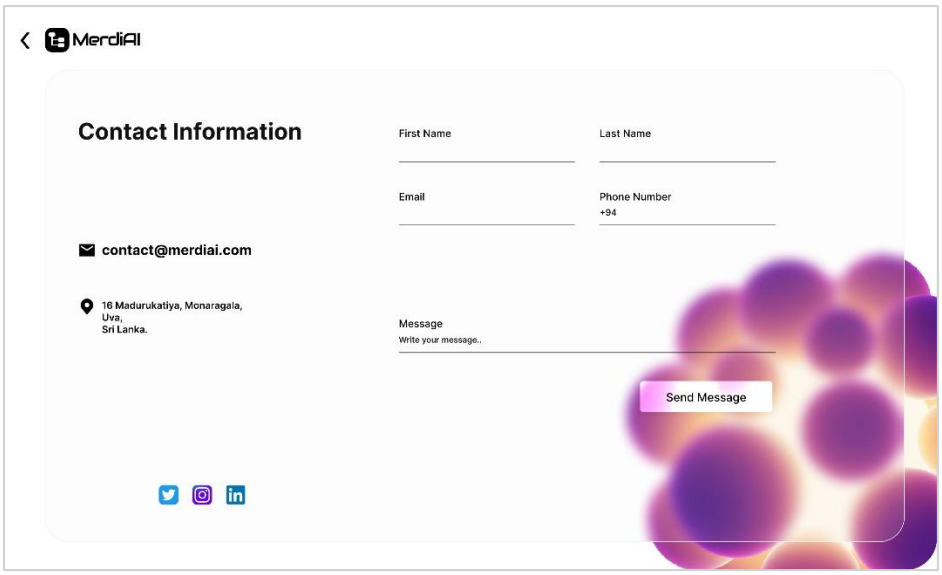
- **Page 1: Landing Page:** This page welcomes the user and clearly explains the platform's purpose as an "AI-powered platform for Graph creation". A "Get Started" button directs the user to the main tool.



- **Page 2: Core Functionality:** This is the main part of the app. On the left, there is a simple input area that prompts the user to "Say your Scenario...". On the right, the AI generated flowchart is displayed.



- **Page 3: Contact Page:** This page includes a complete contact form with fields for First Name, Last Name, Email, Phone Number, and a Message. It also provides a direct email address and a physical address



6.0 Technical Methodology

- **Frontend:** React.js (For a component based and interactive UI)
- **AI Model:** Mistral (Accessed via OpenRouter for flexibility and cost management)
- **Diagram Rendering:** Mermaid.js (To turn AI generated text code into visual graphs)
- **Source Control & Collaboration:** Git and GitHub

7.0 Deliverables

1. A fully working web application that includes all features listed in the "In-Scope" section (4.1).
2. A GitHub repository containing the complete source code for the project

8.0 Conclusion

Merdial is not just a tool it is a platform designed to revolutionize how ideas are turned into visual plans. By following the plan laid out in this proposal, we are confident that we can build a successful and valuable product for our users.