

Team Name/Number:

Team 8

***Team Members:***

1. Razin Moyi A N K (ER, First Year A)
2. Arun M (CSE, Third Year B)

**Abstract:**

Christmas is a time for joy and togetherness, yet many experience loneliness due to work or studies, making the season stressful and isolating. Santa's Workshop addresses this issue with an innovative app to bring Christmas magic to everyone. The app features:

1. **Santa AI Chat:** A conversational Santa powered by generative AI offers empathetic interactions to relieve stress and loneliness.
2. **Santa's To-Do List:** A task organizer to help manage and complete activities.
3. **Delivery Tracker:** A tool for monitoring gift deliveries with clear statuses.
4. **Santa Surprise Game:** A two-player game to uncover hidden Santa cards for a fun festive experience.

This app integrates cutting-edge technology with holiday cheer, ensuring no one feels left out during Christmas.

Implementation Details:

**1. Overview:**

Santa's Workshop is a web application built using HTML, CSS, and JavaScript. The AI chatbot integrates APIs, while persistent data storage supports the delivery tracker. The project brings together a festive theme with practical tools for task management and entertainment.

**2. Steps Taken:**

- Planned the application's core features and design.
- Developed the chatbot using generative AI APIs.
- Built a to-do list with dynamic task tracking.
- Implemented the delivery tracker with persistent storage.
- Designed the Santa Surprise Game with interactive gameplay.
- Integrated all features into a cohesive and user-friendly interface.

**Project Completion Status:**

The project is fully implemented with all planned features operational.

**Challenges Faced:**

- API Integration: Setting up the AI chatbot API and ensuring smooth communication required debugging.
- Data Persistence: Ensuring delivery tracker data remained intact after page reloads involved local storage optimization.
- Game Logic: Implementing interactive gameplay with real-time updates required testing and adjustments.

**Team Contribution:**

Member 1 (Razin Moyi A N K):

- Designed the website layout using HTML/CSS.
- Implemented the to-do list and delivery tracker functionalities.

Member 2 (Arun M):

- Developed the AI chatbot feature and integrated APIs.
- Designed and implemented the Santa Surprise Game.

**Additional Comments (Optional):**

Santa's Workshop combines festive joy with practical tools to make Christmas special for everyone. Future enhancements include user authentication, additional games, and notification systems for task and delivery reminders.