



HACKFEST – 2024

Team Name: [Resilience]

College Name: [NMAMIT], [Karnataka]

Track: [Healthcare]

Problem Statement: [Though more people are surviving health challenges like cancer,STDs and mental disorders,many patients are feeling less hopeful and emotionally unstable during treatment. This lack of optimism is making it harder for them to stick to their protocols. Recent data shows that more patients are struggling with lack of reassurance . This tells us we need to do more to help. We want to give personalized help to boost hope and mental strength for the patients. We also want to make it easier for them to get in touch with medical contacts.We strive to support fighters emotionally and provide accessible medical resources to boost engagement with treatment and improve survival rates.Ultimately,our aim is to foster positivity and continuous improvement in the lives of the people fighting their own battles.]

Approach:

- The solution approach involves developing personalized interventions like a collaboration space to support individuals in reigniting hope and mental strength among the fighters.
- The website will feature easy access to medical contacts for guidance and support, along with educational materials.
- Patients will also have a community space to connect and share experiences.
- This approach aims to address emotional challenges, improve engagement with treatment, and enhance survival rates for patients.

Technology Stack:

- HTML
- CSS
- JavaScript
- MySQL
- Figma
- DGIM
- Bootstrap
- Version control: Git
- Web Server: Apache
- IDEs: Visual Studio Code
- AI tools

Use Cases:

- Personalized interventions
- Supporting individuals
- Educational resource
- Integration for emotional support
- Motivational messages
- Feedback sessions

Architecture:

FRONTEND

- **Clean and minimalistic design:** Employs clean and minimistically soothing view page where you can view fellow users post / quires and resomp to them including a chatting option
- **User anomaly:** Enables users to be anonymous or non anonymous according to thier choice providing end to end encryption and a full data privacy
- **Healthy reminders:** Uses daily reminders to encourage fighters to keep going and small notes to always prioritize self love and trust

DATABASE

- **MySQL:** to store the structured data
- **Data Modeling:** reflects relationships between different aspects of data entities
- **Back up and recovery:** to set up regular backups and disaster recovery mechanisms to ensure data intergrity

BACKEND

- **User Management:** Create, authenticate, and manage user accounts for personalized experiences and resource access.
- **Content Management:** Organize health-related content, including challenges, treatments, support resources, and user-generated content.
- **Personalization:** Use algorithms to personalize based on demographics, health history, and preferences.
- **Data Analytics:** Collect, analyze, and interpret user interaction data for insights and improvement.
- **Integration with Medical Resources:** Connect with healthcare providers, databases, telemedicine, and support organizations.
- **Communication and Collaboration:** Support user, provider, and staff communication and collaboration.
- **Security and Compliance:** Ensure data security and healthcare regulation compliance.