HACKX

- TEAM NAME: ELITE CODERS
- UNIQUE ID: U58K9NW4
- THEME – MEDICAL CONNECTION
- INSTITUTION NAME: PANDIT DEENDAYAL ENERGY UNIVERSITY (PDEU), GANDHINAGAR, GUJARAT.
- DEPARTMENT: INFORMATION AND COMMUNICATION TECHNOLOGY

Team member:

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PROBLEM STATMENT

People with minor health issues (like cold, cough, burns, or allergies) struggle to find trustworthy, relatable advice without formal medical consultations — leading to anxiety, delays in treatment, and unnecessary expenses.

- EXISTING GAPS:
- Information Overload: Online data is scattered and often unreliable.
- No Relatable Experiences: Medical sites lack personal recovery stories.
- Privacy Concerns: Health forums ask for personal details, discouraging sharing.
- Healthcare Burden: Minor issues unnecessarily use medical resources.
- Unstructured Discovery: No simple way to search experiences by symptoms.

- NEEDS:
- A secure, anonymous, and reliable platform where users can share and discover health experiences for common issues — promoting peer-supported solutions, reduced anxiety, and fewer unnecessary doctor visits.

PROPOSED SOLUTION

Idea:

An anonymous, community-based platform to share and find real health experiences safely.

Key Features:

- Share Experience: Structured form (Disease, Symptoms, Recovery Time, Medications, My Story).
- Find Experience: Search by disease/symptom; secure anonymous Q&A option.

Benefits:

- Centralized, reliable user experiences.
- Informed self-care and faster recovery.
- Fewer unnecessary doctor visits.
- Private, supportive community.

Tech Stack:

Frontend – React.js

Backend – Python (Django/Flask)

Database – MySQL / PostgreSQL

OBJECTIVES & EXPECTED OUTCOMES

Objectives:

- Build a secure, anonymous, user-friendly platform for sharing and exploring health experiences.
- Implement tag-based search for easy discovery by disease or symptoms.
- Ensure privacy and data security through anonymous IDs and encryption.
- Promote community health awareness and reduce minor, unnecessary doctor visits.

Expected Outcomes:

- Quick access to real, relatable health insights.
- Strong community support and shared learning.
- Fewer doctor consultations for minor issues.
- Improved self-care confidence and awareness.
- Creation of a valuable health experience database.

DEVELOPMENT STAGES
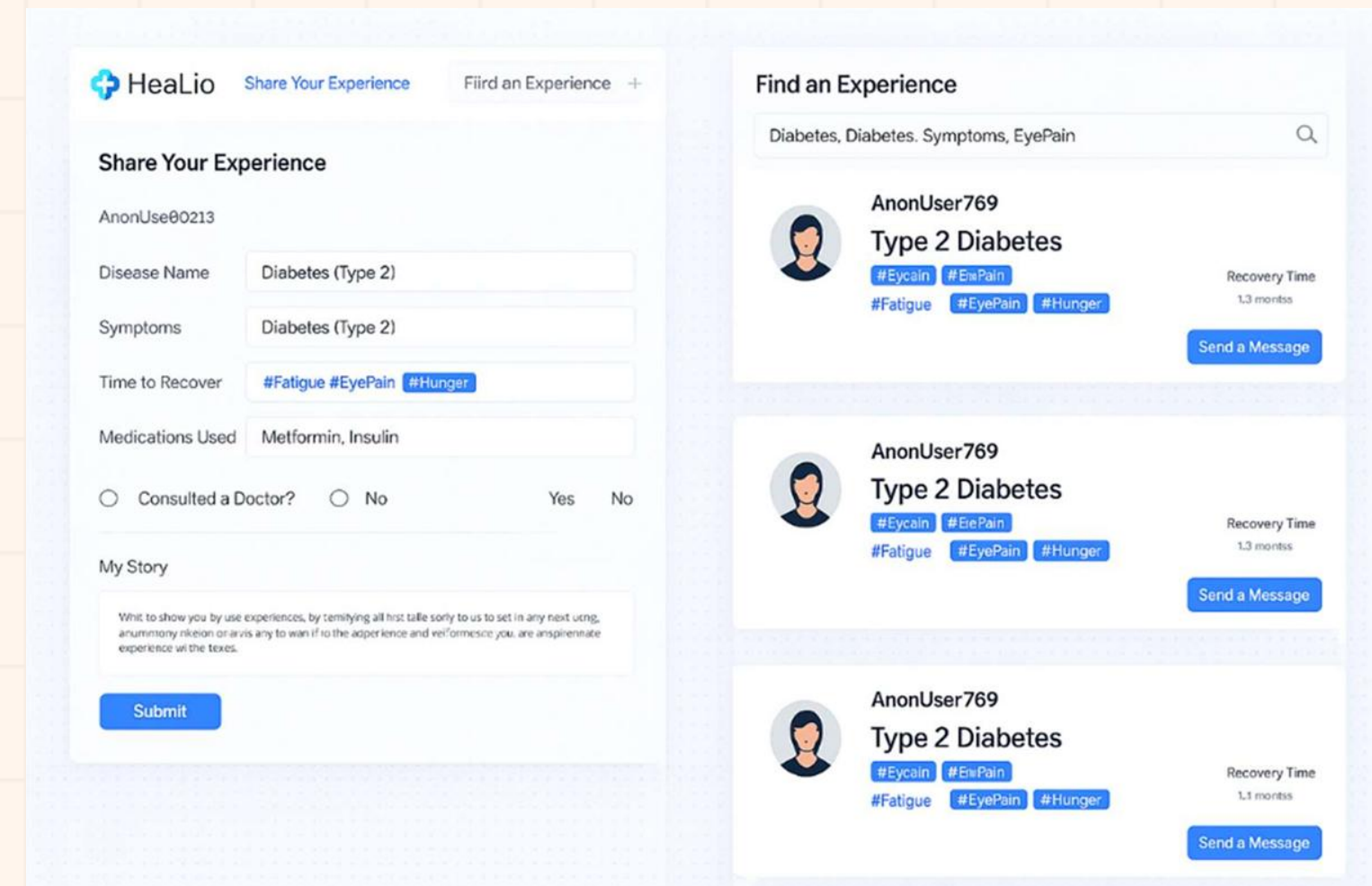
- UI Design: Simple, responsive homepage with "Share" & "Find Experience" options (HTML, CSS, JS).
- Backend & Database: Python (Flask/Django) with MySQL; secure storage using anonymous IDs & encryption.
- Workflow: Frontend ↔ Backend ↔ Database for smooth data exchange.

FEASIBILITY

- Technical: Built using common web tools (React, Django, MongoDB/Firebase). Ensures anonymity & encryption.
- Human: Small team (3–5 developers) with UX & data skills; guided by healthcare professionals.
- Financial: Low-cost setup — domain, hosting, and cloud services only.

SCALABILITY

- Technical: Modular, cloud-based design supports more users & data.
- Functional: Can add AI-based insights, doctor-verified info, or telemedicine APIs.
- Geographical: Expandable across regions, systems, and languages.

WEBSITE PROTOTYPE

IMPACT ASSESSMENT

Social Impact:

- Empowerment through shared stories: Reduces anxiety, misinformation, and isolation by connecting users with real recovery experiences.
- Community awareness: Promotes early diagnosis and preventive health habits through discoverable, experience-based insights.

Economic Impact:

- Low-cost digital support: Offers peer guidance without adding financial strain.
- Fewer consultations: Helps users make informed decisions, reducing unnecessary doctor visits and expenses.

Environmental Impact:

- Paperless, digital model: Encourages online sharing and awareness, minimizing paper use and supporting sustainability.

CHALLENGES & MITIGATION STRATEGIES

RELIABILITY OF INFORMATION

- Challenge: Risk of misinformation from user posts.
- Mitigation:
- Expert moderation by healthcare professionals.
- Community validation (upvotes/comments).
- AI-based content screening using NLP.

PRIVACY & ANONYMITY

- Challenge: Users may fear data exposure.
- Mitigation:
- Anonymous profiles without personal identifiers.
- End-to-end data encryption.
- Privacy-by-design (GDPR/HIPAA compliance).

QUALITY & CONSISTENCY OF INPUT

- Challenge: Varying clarity and completeness in shared data.
- Mitigation:
- Structured input templates for guidance.
- Tag-based categorization for easy discovery.
- Short user tips for writing useful health stories.

CONCLUSION

- People just want trustworthy help for small health issues: Many individuals struggle to find simple, reliable advice for everyday problems like coughs, colds, or allergies without having to see a doctor.

- Community based support: A platform enabling people to share personal recovery stories can provide relatable, experience-based solutions.

- Privacy protection: Ensuring user anonymity will encourage open sharing of health experiences without fear of judgment or data misuse.

- Reduced healthcare burden: By addressing minor ailments through shared experiences, unnecessary doctor visits and healthcare costs can be minimized.

- Organized knowledge discovery: A structured, symptom-based search system will help users quickly find relevant health experiences and remedies.

- Empowerment and awareness: Such a platform would empower individuals to make informed health decisions and promote community wellness.

THANK YOU