INTEGRATED PATIENT DATA MANAGEMENT SYSTEM

Project Review

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PROBLEM IDENTIFICATION

Efficient Management and Accessing

Accessing patient data (reports, prescriptions, medical history) are challenging in hospitals.

Repository

Storing physical records of patients consumes huge resources and space.

Misinterpretations

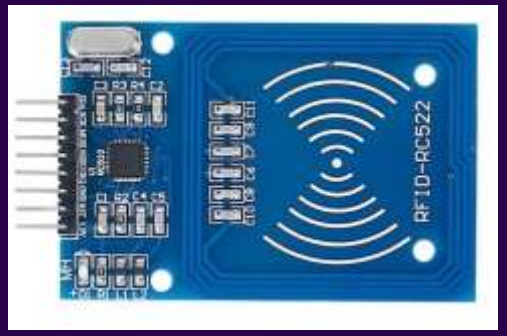
Misinterpretations in the prescriptions can lead to severe problems.

Solution

- **Digital Platform** to store and manage patient data.
- **PVC card** (like a credit card) for identification and access of data
- **Budget Friendly** by avoiding repeated expenses for medical tests.

REQUIRED COMPONENTS

Arduino Uno



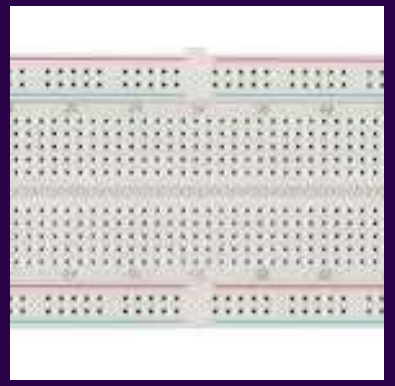
NFC Reader Module

ESP8266 Wi-Fi Module

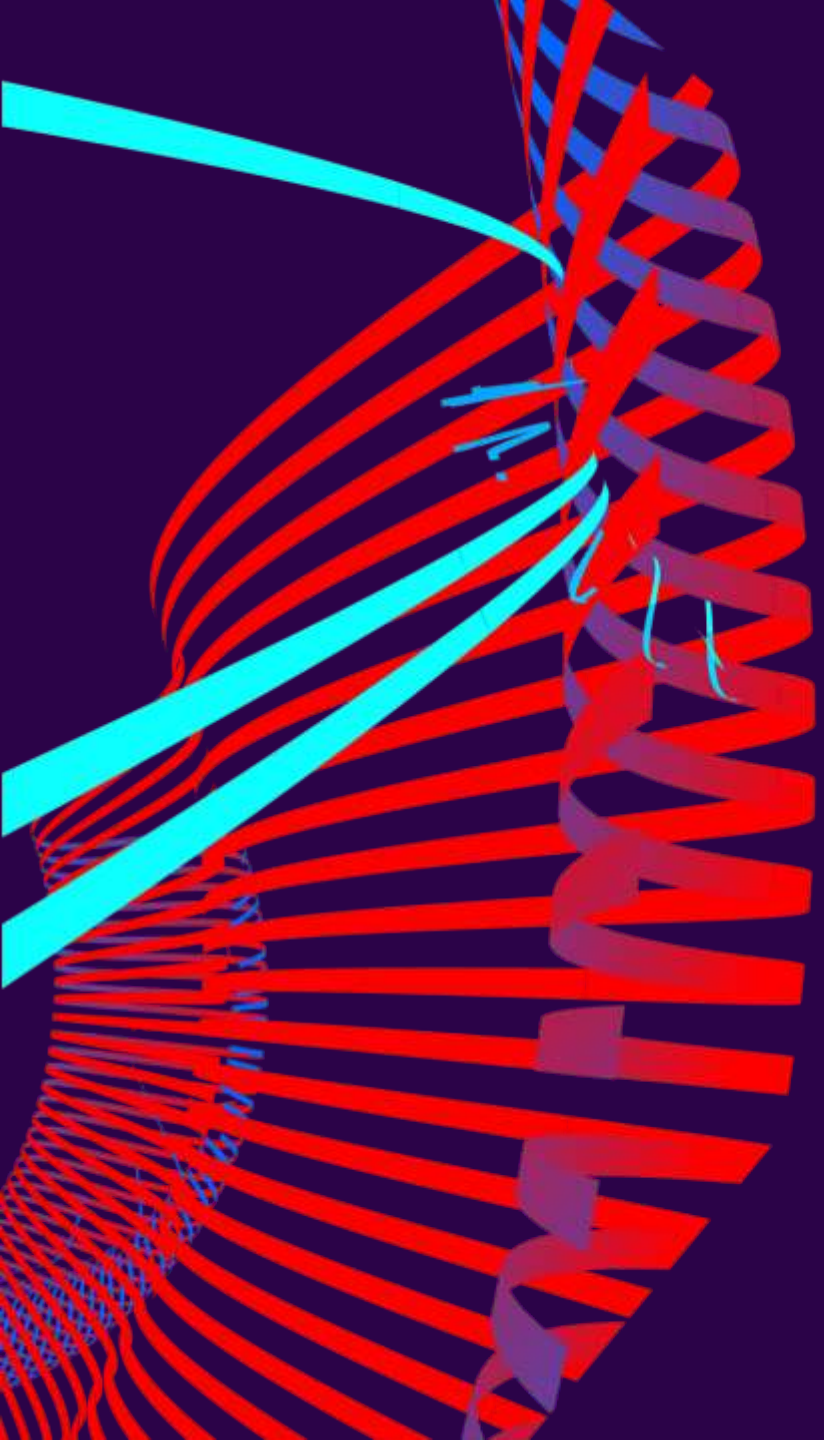
PASSIVE COMPONENTS

Jumper Wires

NFC Cards

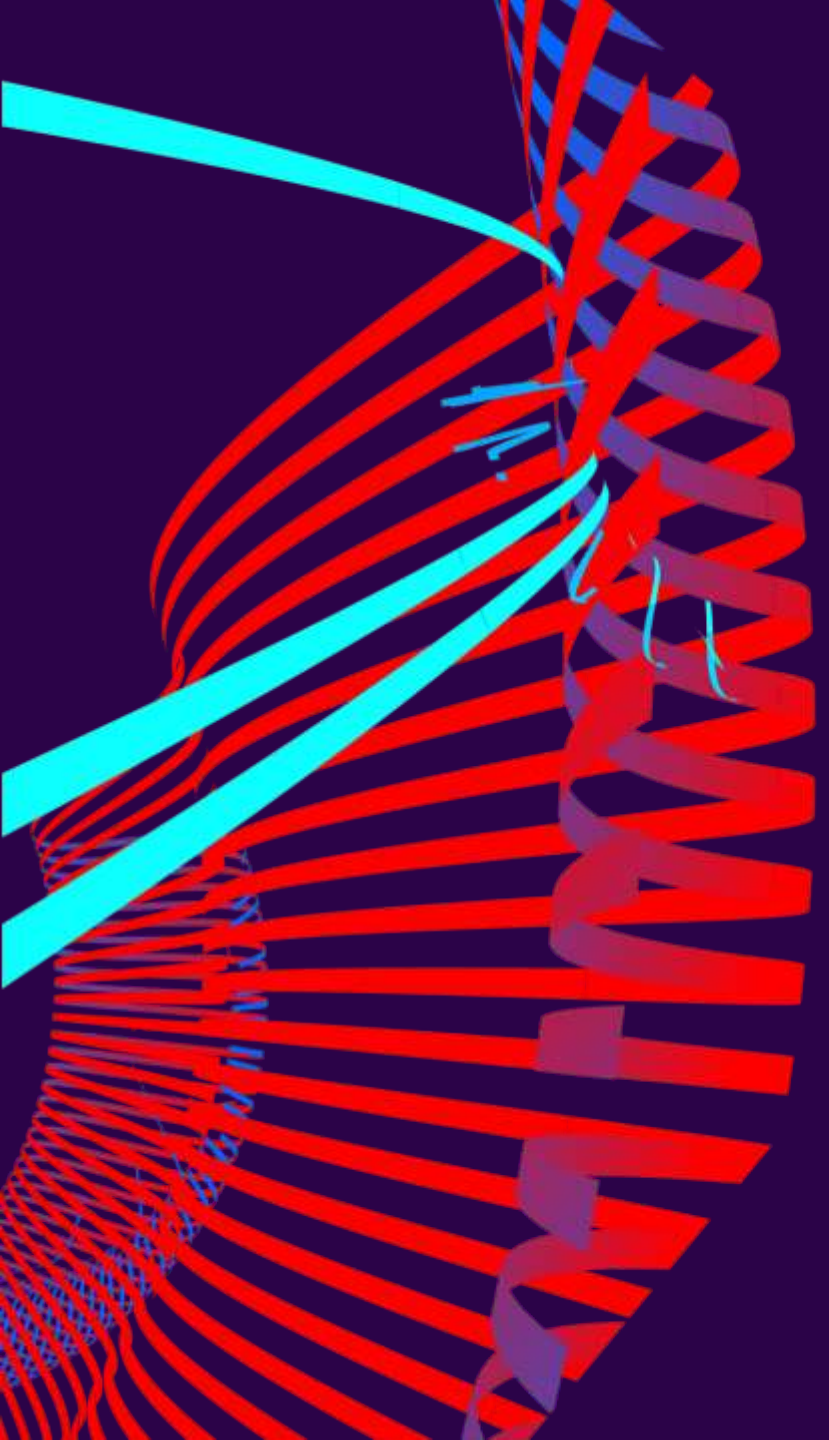


Breadboard



SOFTWARE COMPONENTS

- Arduino IDE Software
- Node JS(Server run-time Environment)
- MongoDB(Database)



APPROXIMATE BUDGET

Breakdown:

- Arduino Board: ₹600
- NFC Module: ₹400
- NFC Tags/Cards: ₹80 (each)
- ESP8266: ₹500
- Passive Components: ₹100

Total Estimated Cost: ₹2000

PLAN OF ACTION

Research and Component Gathering

Prototype Development

Backend Development

Integration and Testing

Deployment and Finalization

PROJECT TIMELINE

Review 1 : Initial Setup

- Problem identification, component gathering, initial prototype.

Review 2 : Development

- Backend development, core functionality, and integration.

Review 3 : Final Testing

- Deployment and documentation.

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THANK YOU