

Project Idea

Idea : AI Powered Health Website

Use Case 1:

The patient visits the hospital website homepage

The system displays a list of departments and doctors

Navigates to the “**Doctors**” page

Select doctor’s name and available time slot

Confirms appointment

The system creates an appointment ID and sends confirmation

Access Patient Portal

Download Report

Use Case 2:

Admin logs into the **Admin Panel**

Clicks **Add New Doctor**

Enter details and picture

System updates the **Doctors Page**

Use Case 3:

User visits the Hospital Website

User selects the “AI Prediction Tools” section.

User chooses a prediction model

(Heart disease, stroke, cancer risk, diabetes, etc.)

System displays the relevant input form.

User enters medical parameters

System displays the results

User ask chatbot for advice

User enter data in clinical notes section for prescription

Pages:

Home Page - User Visits Home Page View Banner / Intro Select Option (About, Departments, Doctors, Services, Appointment, Contact) Redirect to Selected Page

About Us Page - User Opens About Us View Overview Mission & Vision History & Values Navigate to Other Pages

Departments Page - User Opens Departments View Department List Select Department View Department Details

Doctors Page - User Opens Doctors Page View Doctors List Apply Filters Open Doctor Profile

Appointment Page - Open Appointment Page Select Department Select Doctor Pick Date & Time Enter Patient Details Submit & Confirm

Services Page - Open Services Page View List of Services Select Service View Service Details

Contact Us Page - Open Contact Page View Contact Info Submit Inquiry Form Receive Confirmation

Admin Panel - Admin Login Validate Credentials Open Dashboard Manage Doctors / Departments / Appointments / Services Update Database

Prediction Page

Customer Support Chatbot

Clinical Notes Page : Prescription

Feasibility

- Technically feasible, moderate cost

Idea : AI Powered Supply Chain Website

Use Case:

Company wants to manage its suppliers, inventory, logistics, and customer deliveries in one platform. They want AI assistance for forecasting demand, detecting shipment delays, and suggesting optimization strategies

Feasibility: Moderate Technical Feasibility

Cost effective, might increase with LLM usage

Supplier & Product Management

- Add/edit suppliers.
- Add/edit products, track stock in multiple warehouses.
- Record purchase orders.

Inventory Tracking

- Show real-time stock levels.
- Highlight low-stock alerts.
- Predict inventory needs using AI

Shipment & Logistics

- Schedule shipments to warehouses/customers.
- Track shipment status.
- Detect delays using AI predictions based on historical data & external factors.

AI

Suggest reorder quantities, optimal warehouse allocation or delivery routes.

Forecast product demand per region.

- Answer queries like:
- “Which products are likely to stock out next week?”
- “Which suppliers are causing delays?”

Notifications & Alerts

Low stock alerts to admins.

Delivery delays notifications.

Auto Notifications for purchase orders.

Idea : AI Powered Meeting Summarizer

- **Use Case Example: AI Meeting Summarizer for a Product Team**
- **Scenario:**
- Your product team holds daily stand-up and weekly planning meetings. Participants often forget decisions or action items from previous meetings. You want an automated system that records meetings, extracts key points, and generates actionable summaries.

- **Meeting Recording:**

The AI system automatically joins or receives the recording of the meeting.

- **Transcription:**

- Converts audio into text in real-time or post-meeting.
- Identifies speakers and timestamps dialogue.

- **Key Point Extraction:**

Detects:

- Completed tasks
- Current blockers
- New action items
- Decisions made

- **Actionable Summary Generation:**

- Summarizes key points into a structured format:

- **Decisions:** What was decided and by whom.
- **Action Items:** Who is responsible and due dates.
- **Notes:** Important discussion highlights.

Delivery:

- Sends summary via email

Follow-Up :

- Integrates with task management tools to automatically create tasks from action items.

Feasibility

- Technically feasible with existing AI and integration tools. Real-time summarization is possible but may require high compute resources or cloud services.
- Cost-effective (Cloud AI API usage (transcription + summarization))

Idea: AI powered resume selector

A tech company needs to hire **15 software engineers and data scientists** in 2 weeks to launch a new product. They receive **over 500 resumes**, making manual screening impossible without delaying the project.

- **Step 1: Job Creation**
- HR posts two roles:
 - **Software Engineer** – skills: Node.js, React, PostgreSQL, AWS
 - **Data Scientist** – skills: Python, SQL, Machine Learning, NLP
- Job descriptions are entered into the system.

- **Step 2: Resume Submission**
 - Candidates submit resumes through the career portal.
 - Each resume is automatically tagged with the job ID and stored in database.
- **Step 3: AI-Powered Resume Parsing**
 - Extracts structured data: name, skills, experience, education, certifications.
 - Scores candidates based on how well they match the job description.
 - Detects transferable skills, e.g., a candidate skilled in TensorFlow and Python can be a strong fit for ML projects.

Step 4: Candidate Ranking

- Candidates ranked by score.

Filters: skills, years of experience, certifications.

Analytics: top skills, experience distribution, high-potential candidates.

Step 5: Accelerated Decision-Making

- Top candidates are shortlisted automatically.
- HR schedules interviews with the top 20% of applicants.

Feasibility

- Technically feasible, cost effective
- Need data that are not biased