



Accenture Innovation Challenge

Reinvent the Future:
Unleash your
innovation potential

Team details

TEAM NAME: J-United



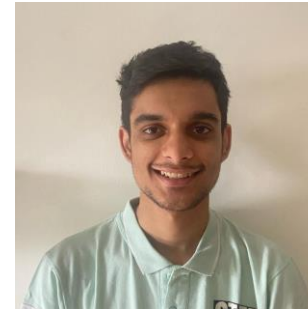
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Describe the problem statement

The creation of a digital system aimed at revolutionising hospital appointment scheduling has the potential to completely change how effective healthcare is for patients.

- The power of **artificial intelligence (AI), data analysis, and machine learning** are all utilised by this cutting-edge system.
- The device may instantly identify doctors on the hospital grounds by incorporating **mobile phone proximity**.
- An **AI-driven** appointment allocation system is built on top of this real-time data.
- The number of patients on the waitlist and the availability of the doctors are regularly evaluated by sophisticated algorithms that are powered by **data analysis and machine learning**.
- The constantly optimised schedule is created by the **AI-driven algorithm**, which intelligently matches available time slots with patient appointments. The patient experience is improved overall as a result of this proactive approach's significant reduction in patient wait times.
- Continuous improvement is possible thanks to the system's capacity for **data collection and analysis** throughout time. It can spot patterns and trends, allowing the hospital to manage people and resources more effectively.

In summary, the suggested digital system provides a comprehensive approach to streamlining hospital appointment scheduling. By combining **mobile technology, artificial intelligence, data analysis, and machine learning**, it not only increases productivity but also provides patients with real benefits, reducing their wait times and providing a flawless healthcare experience. This revolutionary method represents a critical development in the direction of **patient-centered and data-driven healthcare management**.

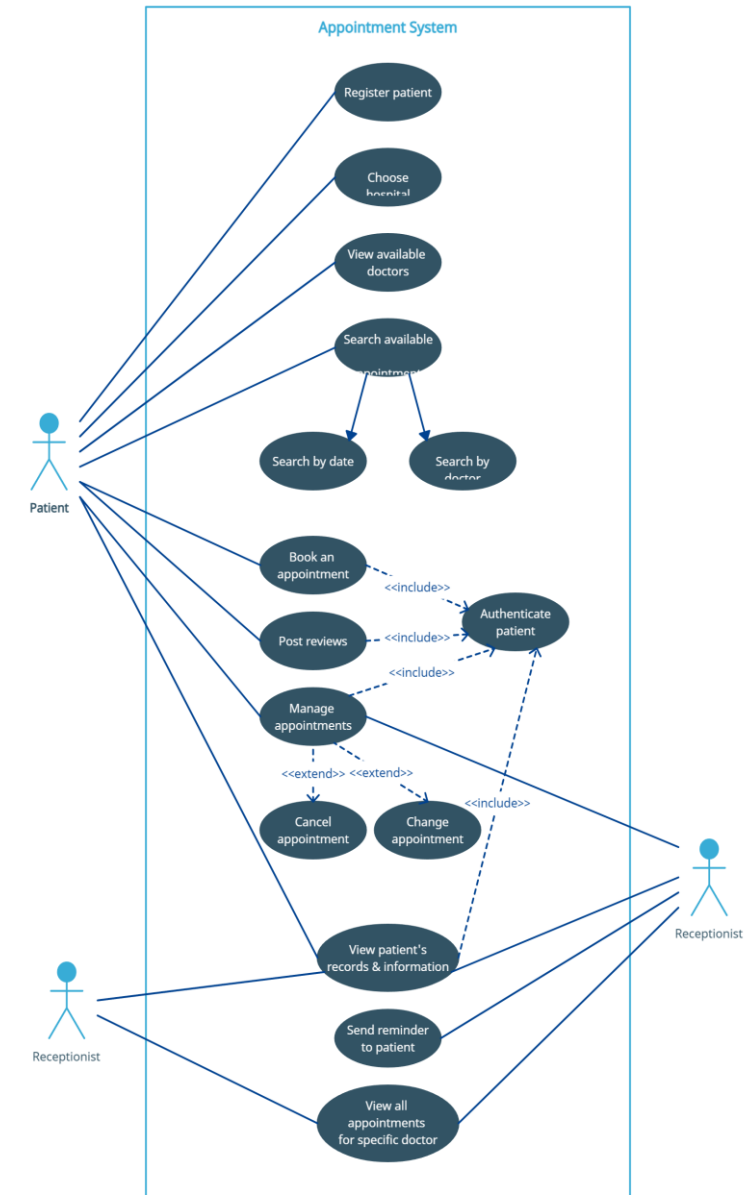
Proposed solution / your big Idea

CareConnect will enable online scheduling, eliminating the need for in-person meetings, and shorten waiting time in an effort to relieve the burden on patients and medical employees.

The prototype will function as follows:

- Identifying the user's location using **Position sensors** and **GPS** on their devices.
- **Artificial Intelligence (AI)** will be used to locate the closest hospital that can meet the demands of the patient.
- **Check-in/check-out mechanism** within the app to track doctor availability.
- Using **Machine Learning (ML)** to improve the efficiency of scheduling appointments and matching patients with available doctors.
- Additionally, the system will have an intuitive **user interface (UI)** that is available from any device, making it simpler for patients to schedule appointments whenever it suits them
- **Dynamic Appointment Prioritisation:** The **AI** system will rank appointments based on how seriously unwell the patient is.
- **Reducing No-Shows:** The system will send **reminders** for appointments and make it simple for patients to change or cancel them.
- **Patient Wait-Time Reduction:** The **AI system** can reduce patient wait times by carefully planning out appointments.

TECHNOLOGY USED:



How does your innovation accelerate change with the power of Technology?

- **Technology Integration:** The combination of real-time **data processing** and **mobile technology** is a development that has the potential to raise the bar for healthcare systems. This integration can act as a role model for other organizations and promote the use of related technologies across the sector.
- **Data-Driven Healthcare:** The system's focus on **pattern recognition** and **data analysis** that can help advance the general trends of data-driven healthcare. Our innovation fits with the changing environment as the industry increasingly relies on data for decision-making.
- **Competitive Advantage:** By providing better patient experiences and more effective scheduling, hospitals that adopt our system can gain a competitive advantage. This might result in more patient recommendations and a stronger competitive position.
- **Continuous Improvement :** It is made possible by the capacity to gather and examine data over time. Based on real-world data and insights, hospitals can adjust to changing patient demands and optimize their operations. The industry will continue to develop and adapt in order to effectively meet patient needs thanks to this **iterative process**.
- **Data-Driven Decision-Making :** It is made possible by the **data analysis** and **machine learning** capabilities of our system. In terms of resource allocation, appointment scheduling, and general management, hospitals can make well-informed decisions. This data-driven strategy could result in more efficient operations and better healthcare outcomes.
- **Improved Patient Experience:** Our **patient-centric strategy** places a strong emphasis on raising the standard of care for all patients. Patients gain from more efficient appointment scheduling, shorter wait times, and an easier transition between healthcare settings. This satisfying encounter may result in greater patient loyalty and higher hospital ratings.

How is your solution different/unique from other solutions in market

- **Real-time doctor availability tracking:** We give hospitals the capacity to monitor doctors' presence in real-time by utilising cutting-edge technology like mobile phone proximity. Our system is built on this **dynamic data**, guaranteeing that appointment times are distributed in accordance with the availability of genuine doctors. **Real-time monitoring** reduces scheduling conflicts and **optimizes resource allocation**.
- **Use of artificial intelligence (AI) :** Our technology distributes appointment times in an intelligent manner. For schedule optimisation, **machine learning algorithms** continuously analyse data, including previous appointment trends and the number of patients on waitlists. This **data-driven** strategy guarantees that patients get care when they need it, cutting down on wait times and raising patient satisfaction.
- **Data Analysis for Continuous Improvement:** Automation is just the beginning of our innovation. It makes use of data analysis to spot patterns, obstructions, and chances for development. Hospitals can use the system's data to gain meaningful insights that will help them plan their staffing, resource allocation, and appointment scheduling decisions.
- **Enhancing the patient experience:** It is the main goal of our solution, which makes it a standout option for hospitals that value both patient pleasure and operational effectiveness. We do this by cutting wait times and assuring prompt access to healthcare services.

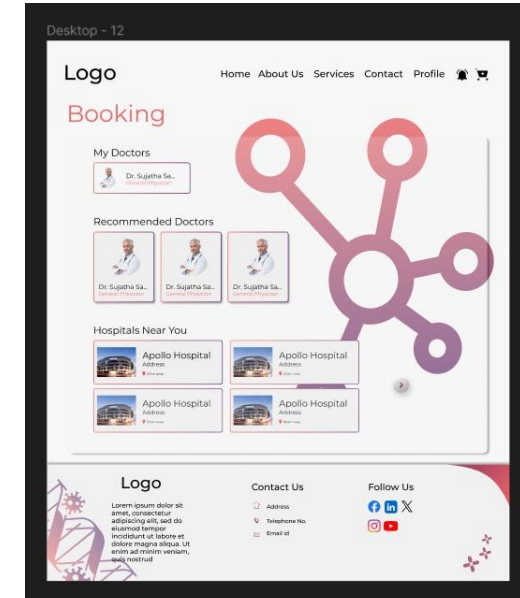
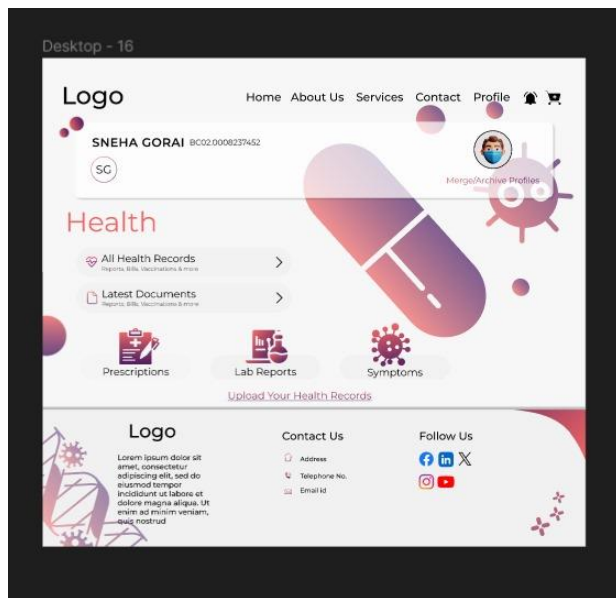
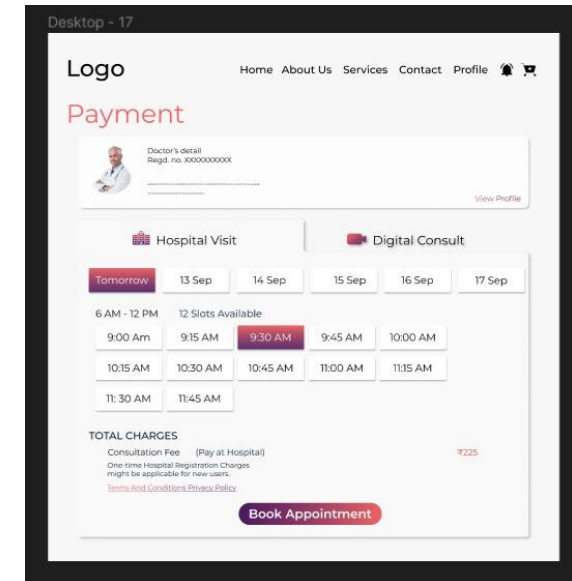
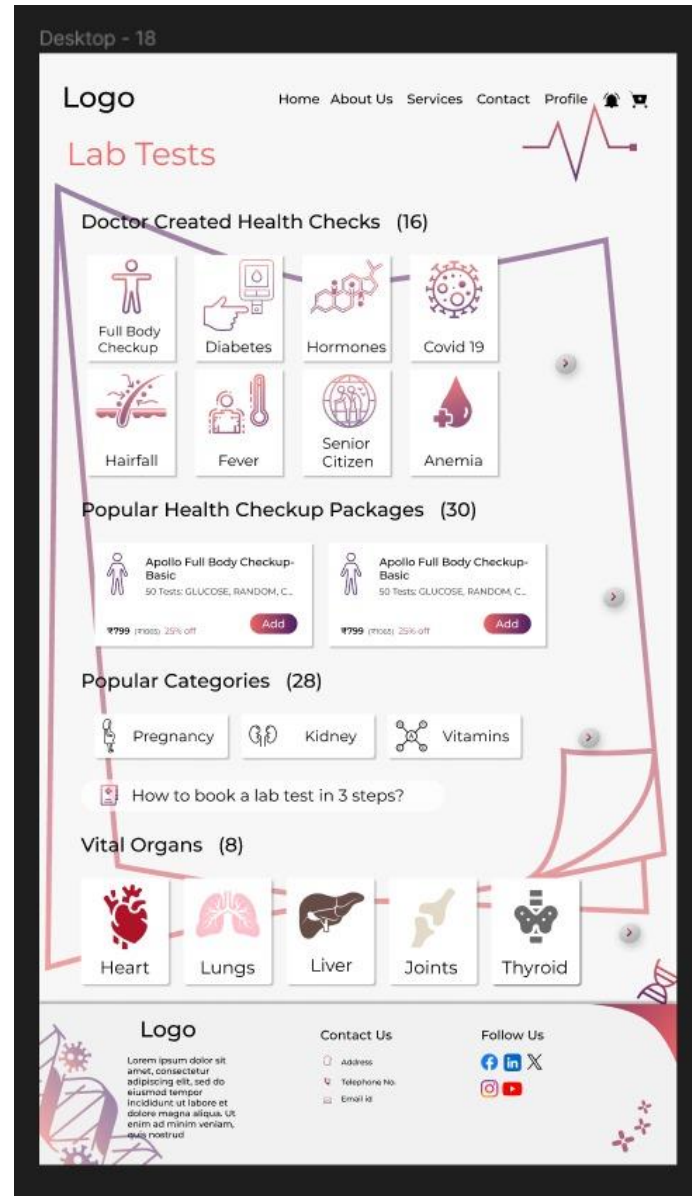
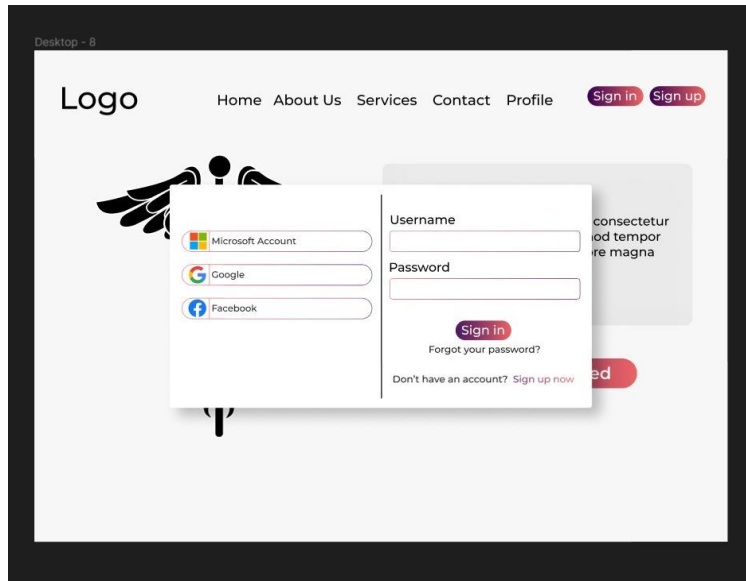
In conclusion, our solution's real-time doctor tracking, AI optimisation, and data-driven insights set it apart as an all-inclusive and cutting-edge method for arranging hospital appointments.

- **PATENT FILED:** No

Do you have a working model/prototype: In progress

If not, will you be able to show working prototype during finale: Yes

Photos of prototype (In progress)





Thank you!