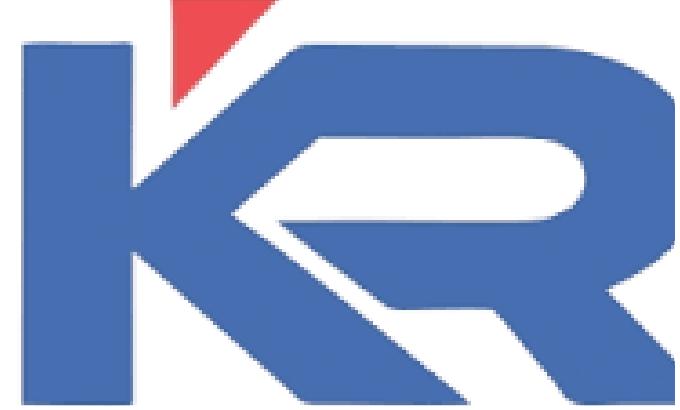




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# **Transforming Healthcare Delivery: Redefining Patient Experience through Innovative Hospital Design**

## **TEAM MEMBERS:**

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# PROBLEM STATEMENT / DESCRIPTION:

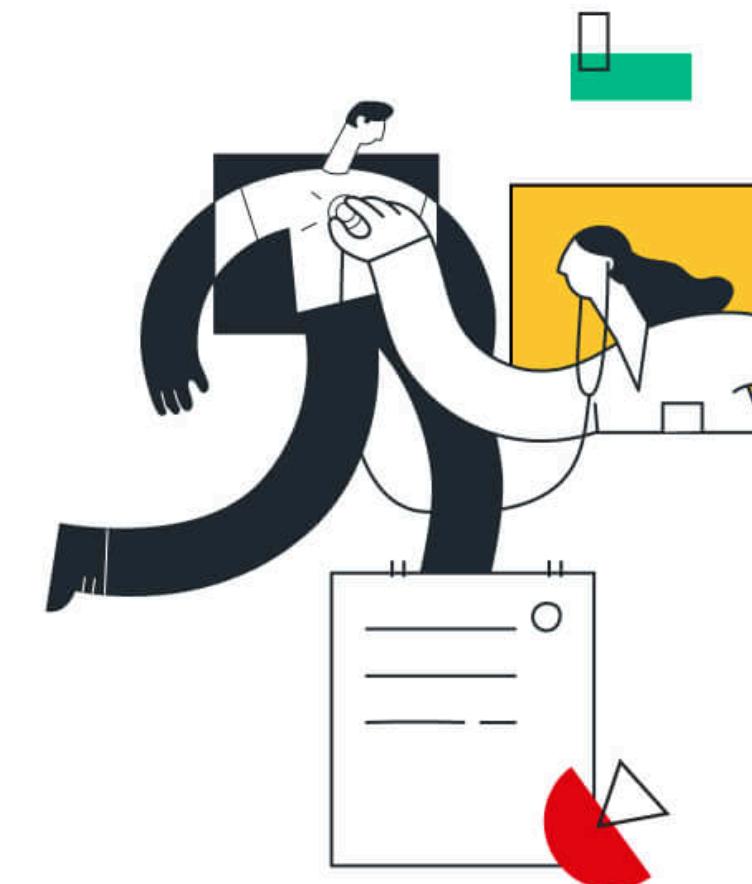
- The traditional hospital environment often fails to prioritize the patient experience, resulting in a lack of comfort, privacy, and emotional support for patients and their families.
- The outdated design of healthcare facilities contributes to patient dissatisfaction, stress, and inefficiencies in care delivery.
- There is a critical need to transform healthcare delivery by redefining the patient experience through innovative hospital design that prioritizes patient-centered care, promotes healing, and enhances overall well-being for patients, families, and healthcare providers.

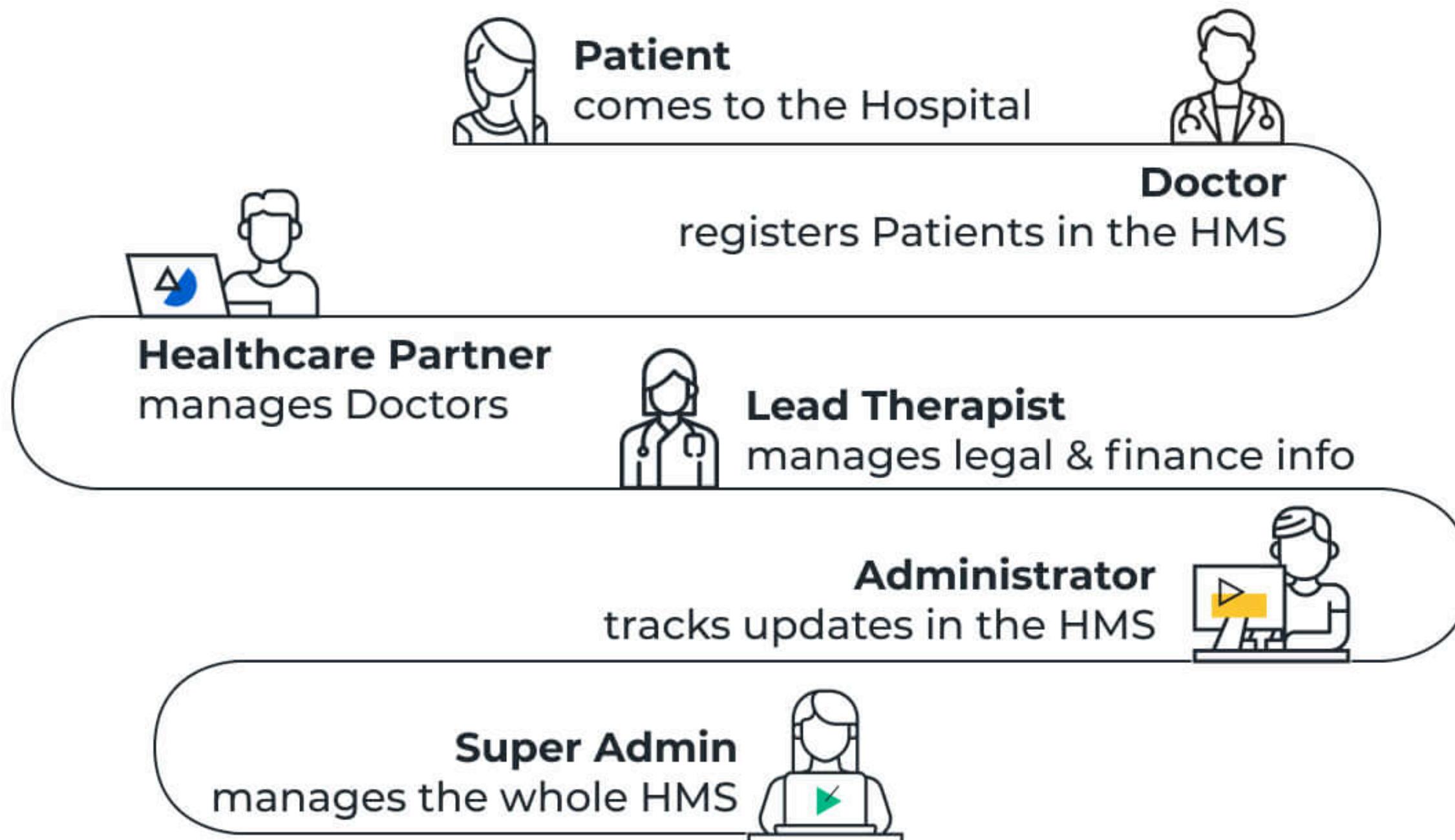
## ABSTRACT :

- This project examines the role of innovative hospital design in redefining the patient experience and transforming healthcare delivery.
- Traditional hospital environments often fall short in meeting the needs of patients, resulting in dissatisfaction, stress, and inefficiencies in care delivery.
- By implementing cutting-edge design concepts that prioritize patient-centered care, comfort, and emotional support, healthcare facilities can create a more holistic and healing environment for patients, families.

# Existing system

- ✓ **Operational**  
to order financial information, medical equipment, and hospitalization reservation
- ✓ **Administrative**  
to manage the interactions between patients and doctors
- ✓ **Subject-based**  
to store EMRs or EHRs
- ✓ **Task-based**  
to prioritize and distribute tasks between hospital staff
- ✓ **Billing**  
to manage the finances of all the hospital departments





# **proposed system:**

## **Tech-powered Healing:**

- Smart Rooms: Imagine rooms with adjustable lighting, temperature control, and entertainment options all responsive to a patient's needs or preferences.
- Wearable Tech Integration: Integrating wearables for real-time patient monitoring and data collection can improve care and communication between patients and staff.
- Robotic Assistance: Robots can assist with tasks like medication delivery, reducing human error and freeing up staff time for more complex care.

## **Focus on Mental Well-being:**

- Sensory Rooms: Providing dedicated spaces with calming lighting, soothing sounds, and soft textures can be a haven for patients experiencing anxiety or sensory overload.
- Social Interaction Areas: Creating communal spaces for patients to connect with others can combat feelings of isolation and promote mental well-being.
- Biophilic Design on Steroids: Imagine vertical gardens integrated throughout the building, not just on the exterior. This can significantly enhance air quality and connection to nature.

# Implementation

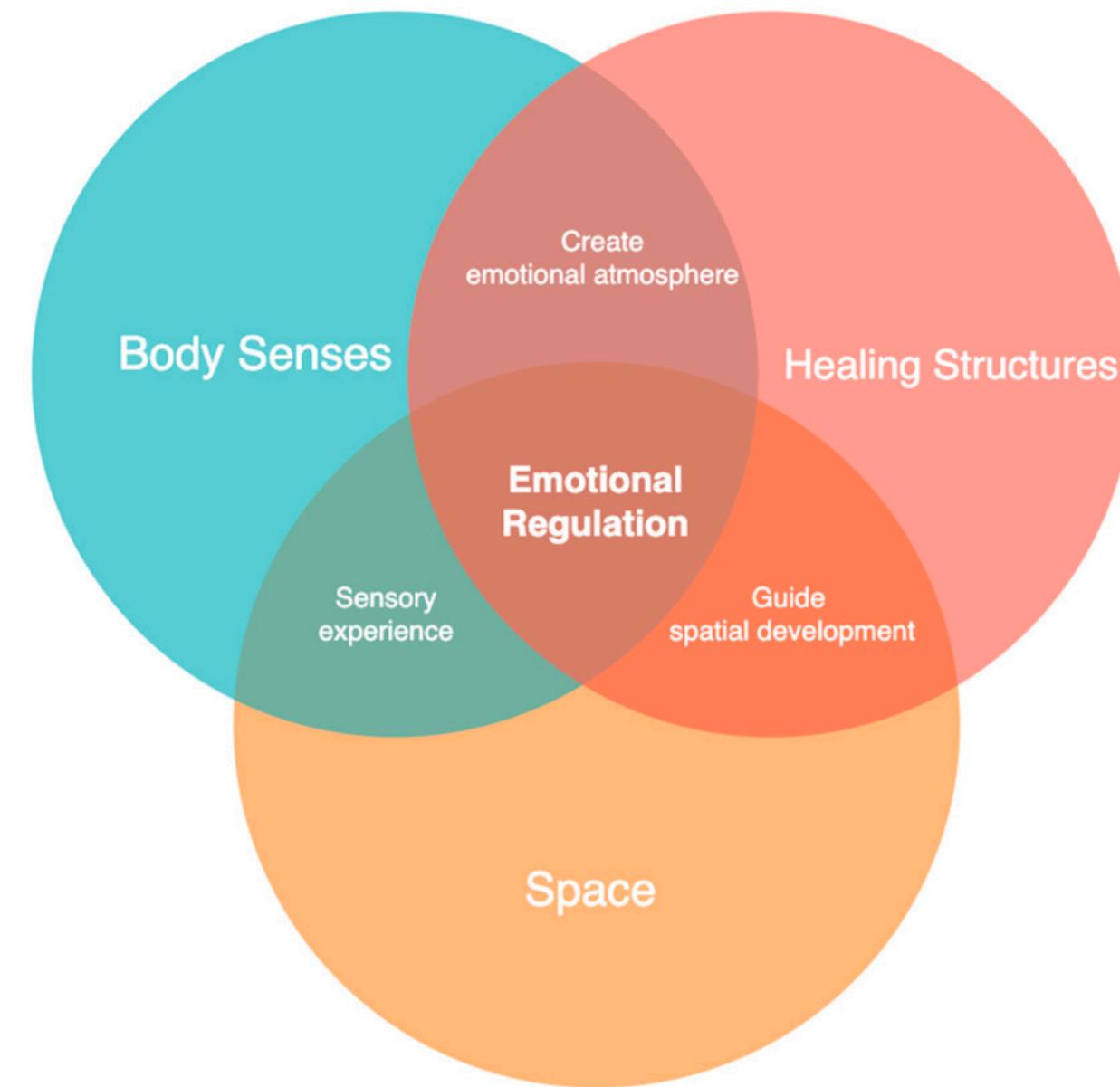
## implementation



# PROJECT MODULES:

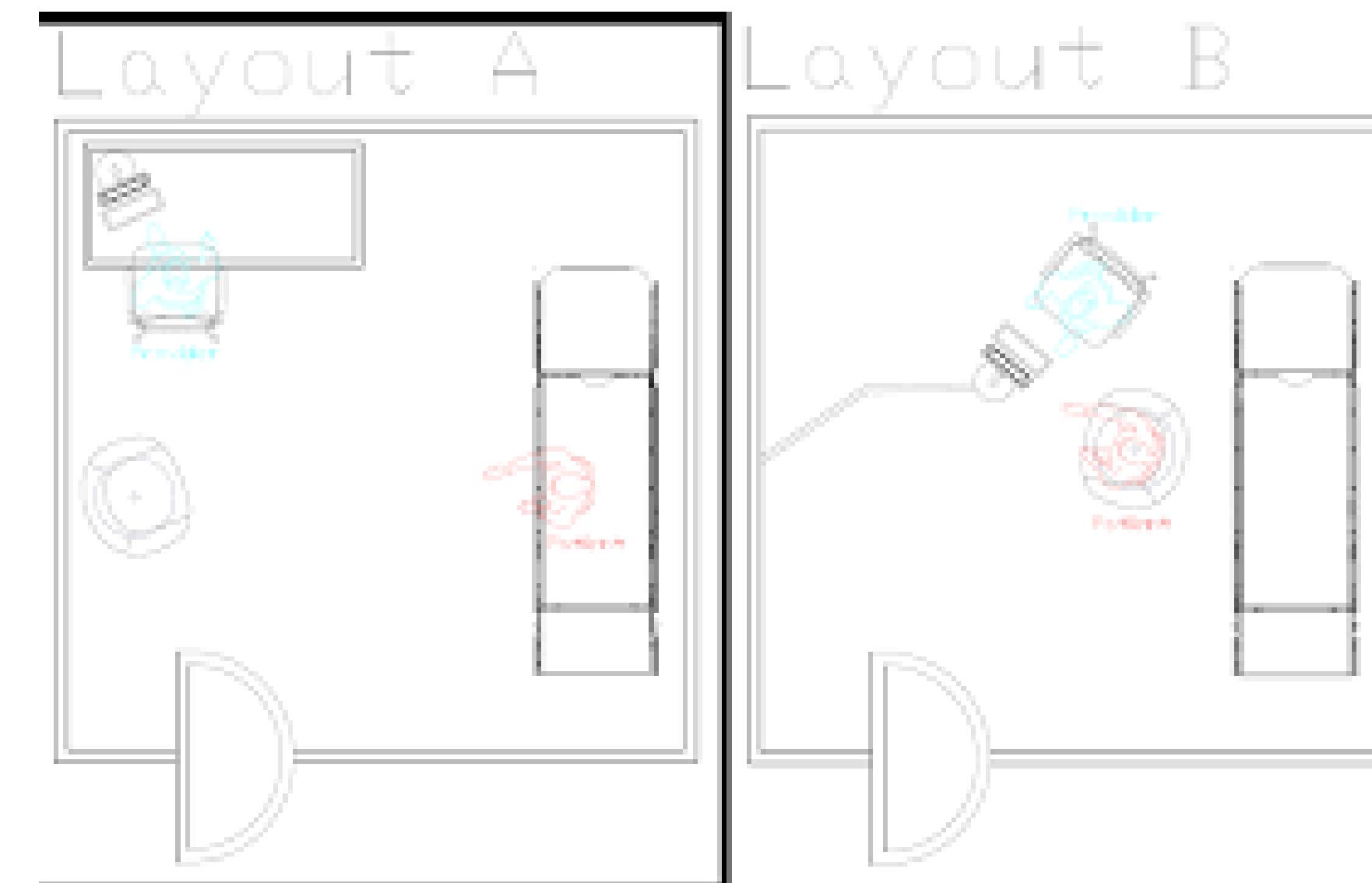
## Holistic Healing Spaces:

**Concept:** Hospitals are no longer sterile, functional spaces. They are evolving into holistic healing environments. Designers focus on creating calming, nature-inspired spaces that promote relaxation and healing.



## 2. Patient-Centered Room Layouts:

**Concept:** Room design impacts patient comfort and interaction. Thoughtful layouts consider patient mobility, privacy, and family involvement.



### 3. Art and Aesthetics:

**Concept:** Art has therapeutic value. Hospitals incorporate local artwork, sculptures, and murals to create a visually appealing and culturally diverse environment.



## 4. Outdoor Spaces and Healing Gardens:

**Concept:** Access to green spaces positively impacts patient recovery. Healing gardens, rooftop terraces, and outdoor seating provide respite.



## 5. Culinary Excellence:

**Concept:** Hospital food is no longer an afterthought. Culinary innovation enhances patient satisfaction.



## 6. Wayfinding and Signage:

**Concept:** Hospitals can be labyrinthine. Clear signage, color-coded paths, and digital navigation tools simplify patient movement.



# WORKFLOW:



# Output in REAL LIFE APPLICATION:

1. **The Royal Children's Hospital** in Melbourne, Australia: Designed by Bates Smart, this hospital features a colorful and playful design that promotes healing and relaxation. The hospital's design incorporates natural light, water features, and outdoor spaces.

**Real-life application:** The hospital's design has led to a 30% reduction in patient stress and a 25% increase in patient satisfaction.

2. **Mercy Hospital's Innovation Center:**

**Focus:** Technology integration for improved care and communication.

**Application:** Smart rooms with adjustable lighting, temperature control, and interactive patient portals allowing patients to access medical records and communicate with nurses.

**Impact:** Increased patient engagement and improved communication between staff and patients.

### **3. Mayo Clinic's Eugenio Garza Sada Children's Hospital:**

**Focus:** Reducing anxiety in children and creating a calming environment.

**Application:** Playrooms with interactive features, distraction techniques integrated into treatment areas, and child-friendly artwork throughout the hospital.

**Impact:** Reduced anxiety in young patients, leading to smoother procedures and faster recovery.

### **4. Beth Israel Deaconess Medical Center's Yawkey Center for Cancer Care:**

**Focus:** Privacy and dignity for cancer patients.

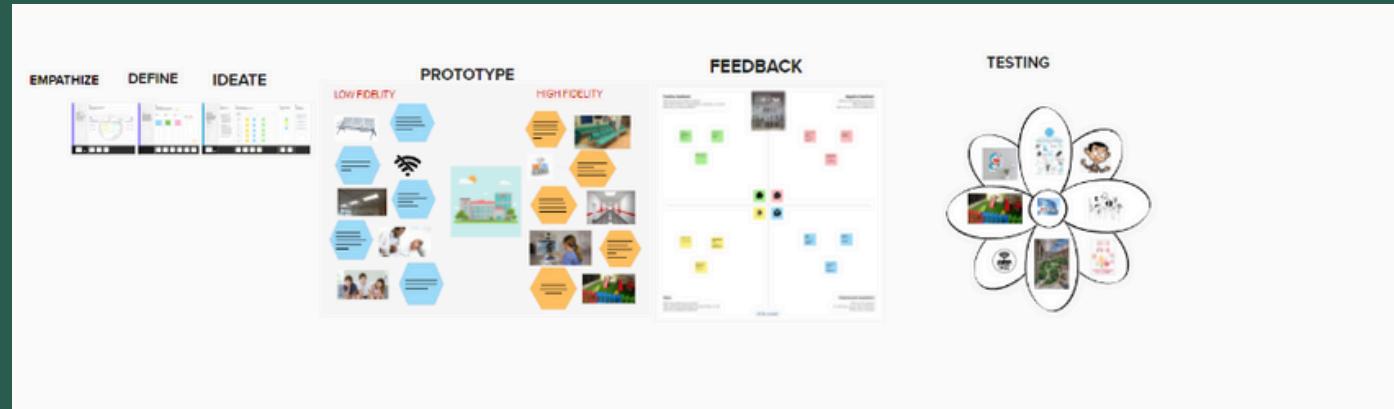
**Application:** Private infusion suites with comfortable seating for family members, natural light, and access to outdoor spaces.

**Impact:** Improved patient experience during treatment, fostering a sense of well-being and reducing feelings of isolation.

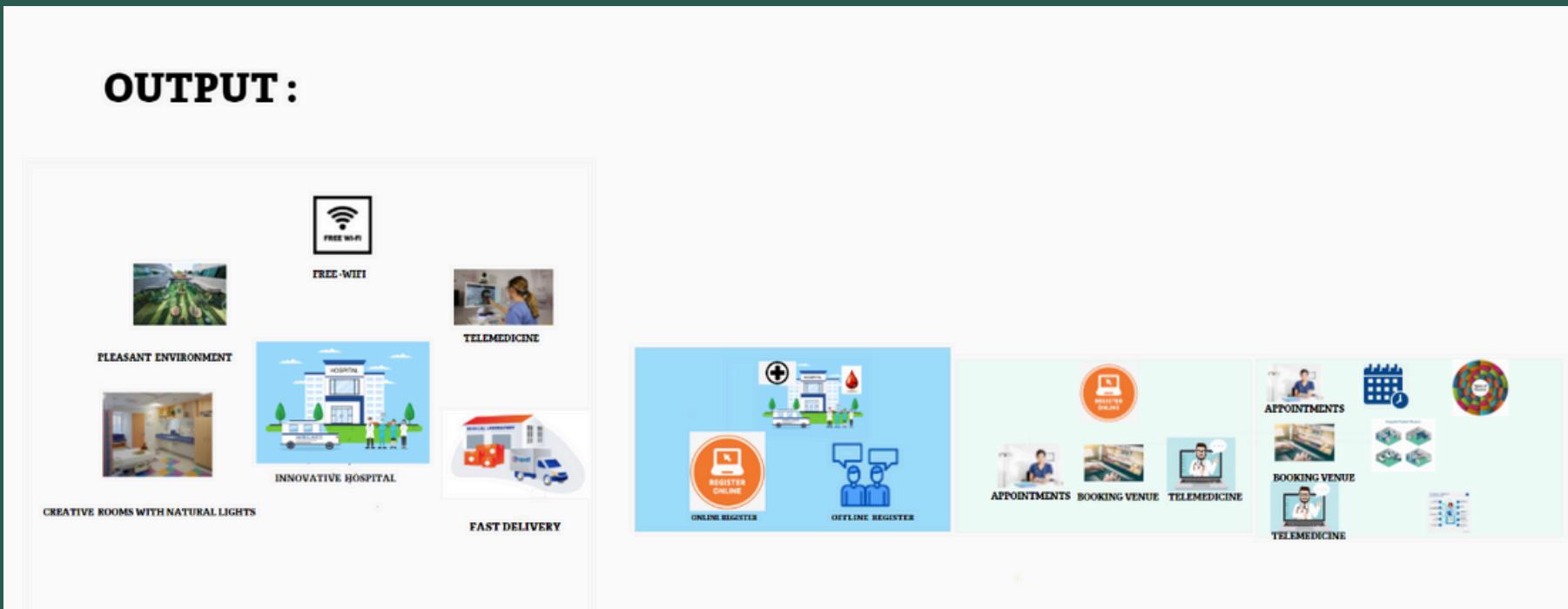
# CONCLUSION

In conclusion, by embracing innovative hospital design, healthcare facilities can redefine the patient experience, prioritizing comfort, efficiency, and holistic care delivery. Through thoughtful architectural and technological integration, hospitals can cultivate environments that promote healing, enhance patient satisfaction, and ultimately improve health outcomes. This transformation not only benefits patients but also empowers healthcare providers to deliver more effective and compassionate care in the evolving landscape of healthcare delivery.

# OUTPUT:



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THANK  
YOU