



# HOSPITAL MANAGEMENT SYSTEM

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20234004

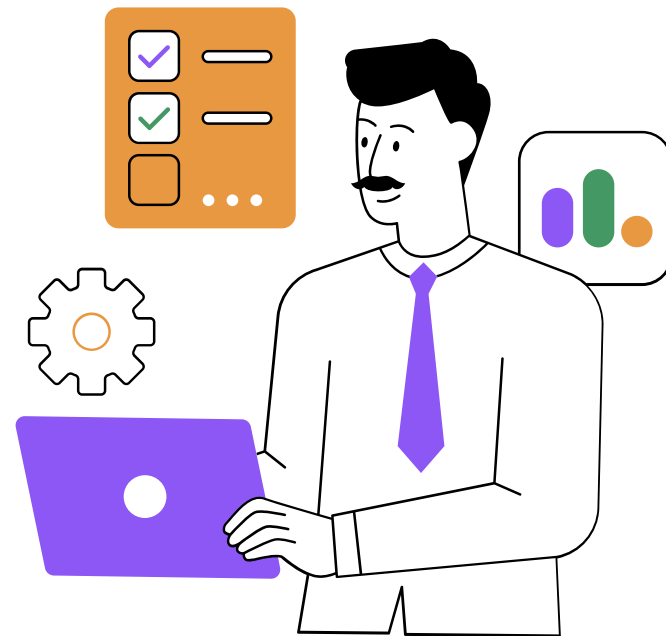
Dr. Eman mesalhy  
eng. Ahmed Elbatanony



# ADVANCING OF HMS

- ➡ Develop a comprehensive (HMS) to streamline hospital operations.
- ➡ Improved efficiency by avoiding human errors
- ➡ Data security
- ➡ Enhance administrative efficiency.
- ➡ Facility management
- ➡ Easier appointment scheduling and access to medical records.
- ➡ Increased transparency and communication with healthcare providers
- ➡ Time Saving

# TARGET USERS :



Admin



Receptionist



Doctor



## **Admins**

**Users (Doctors, Nurses etc.)  
Management  
View day to day functioning  
of each department  
Equipment management  
track easily**

## **Doctors**

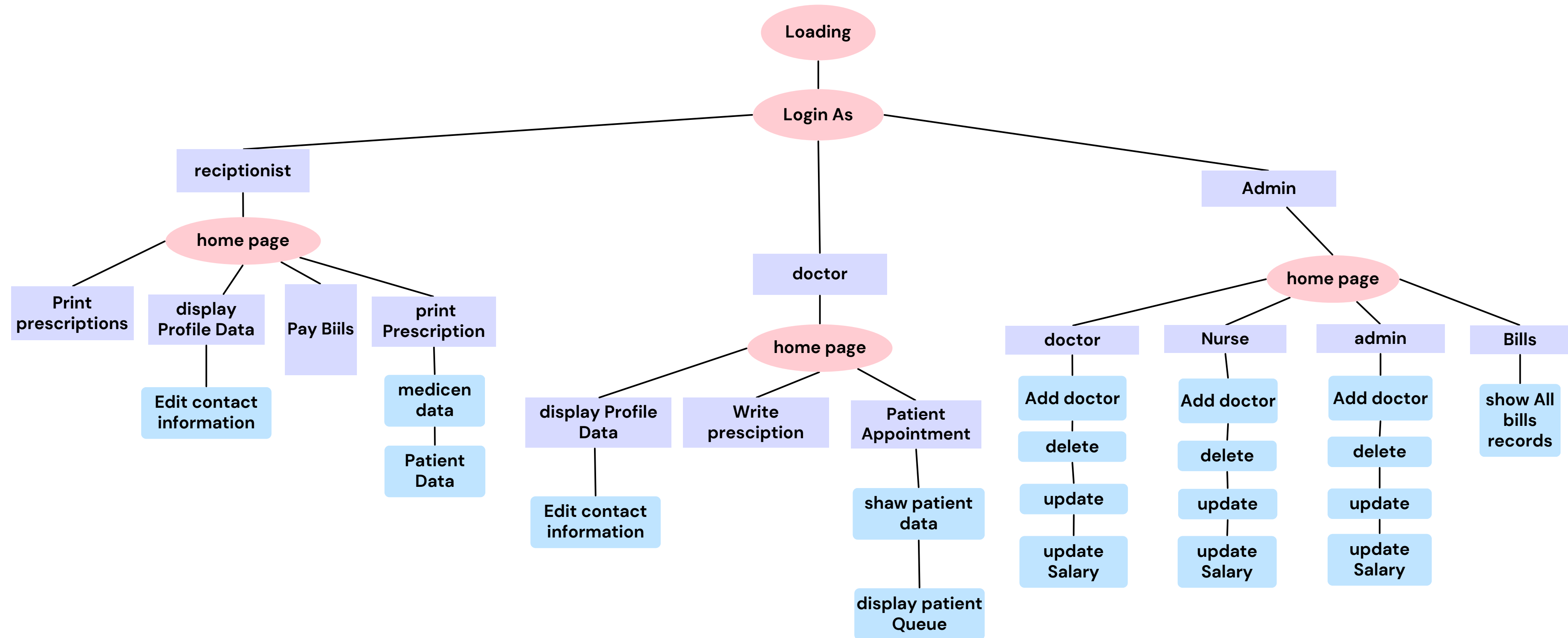
**Track on Patients  
Medication  
Access to patient details  
easily  
easily show all patient  
queue**

## **Receptionist**

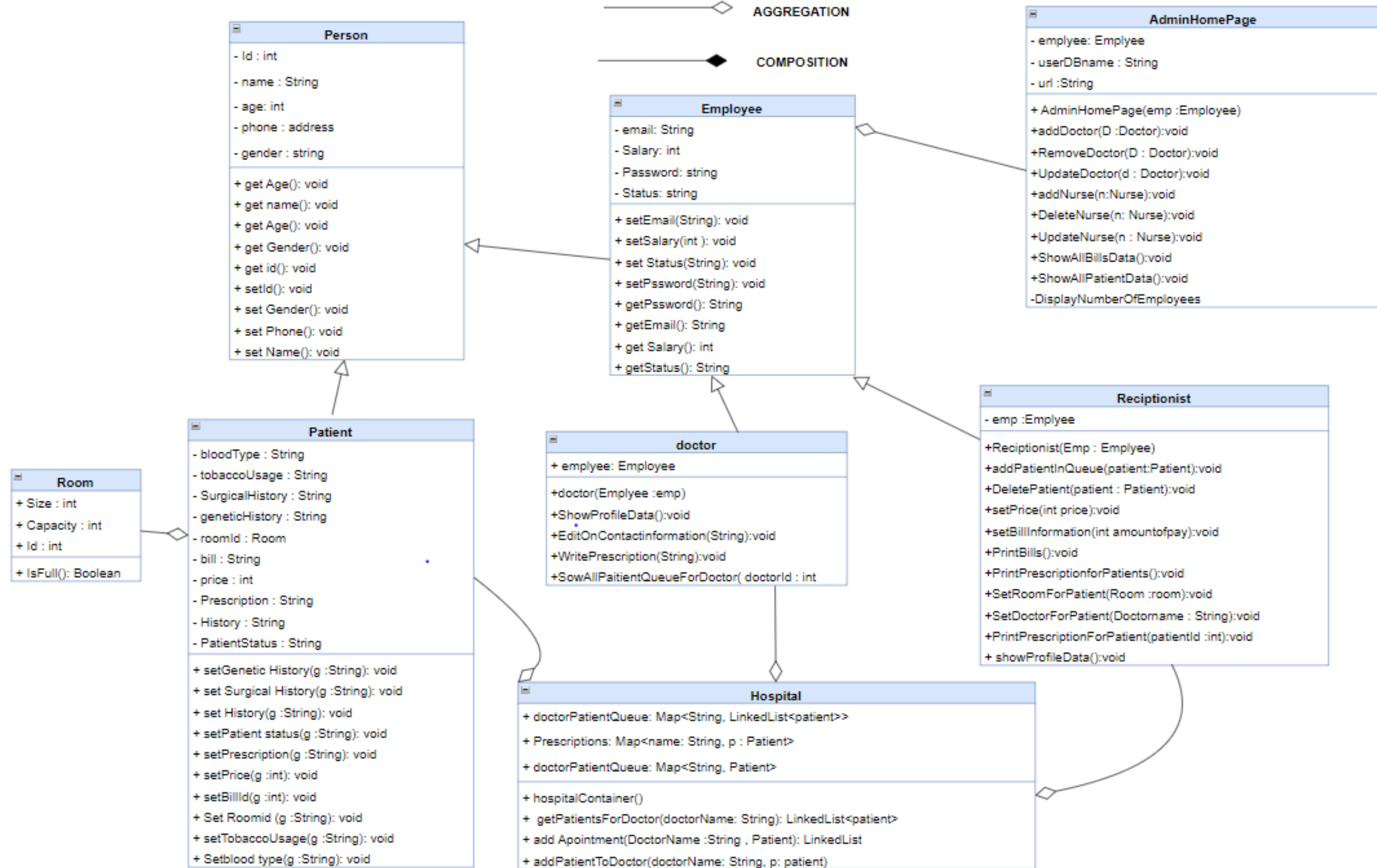
**Appointment Booking  
print patient bills  
print patient  
Prescription**



# Hospital Management Sytem Digaram



# PROJECT UML



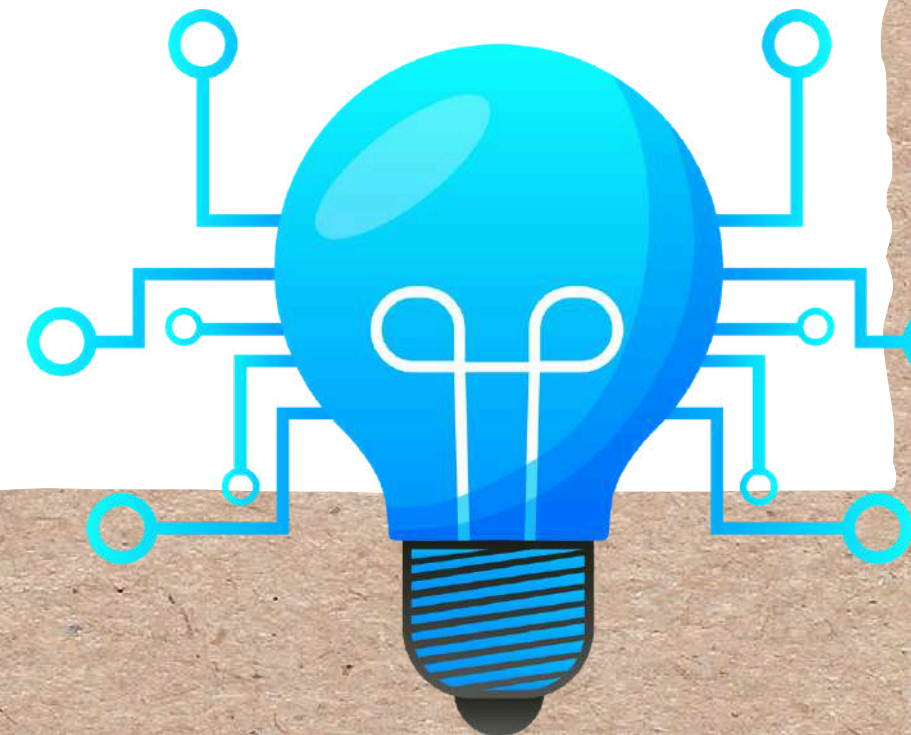




# FUTURE ENHANCEMENTS:



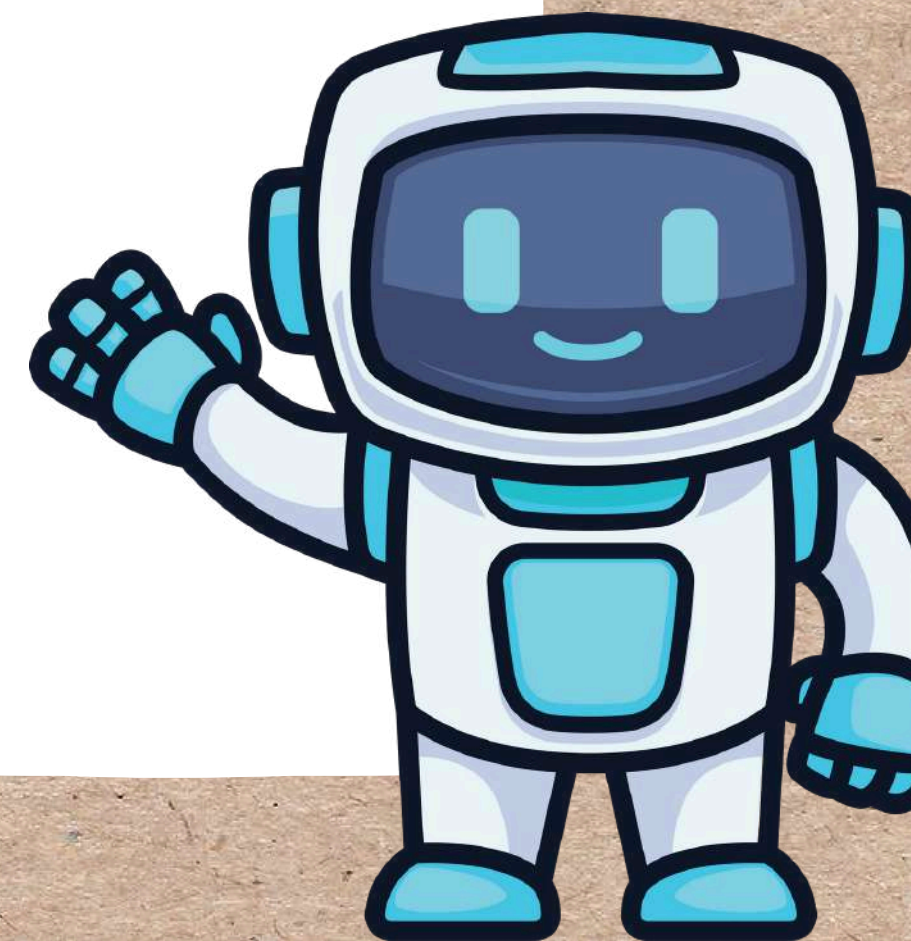
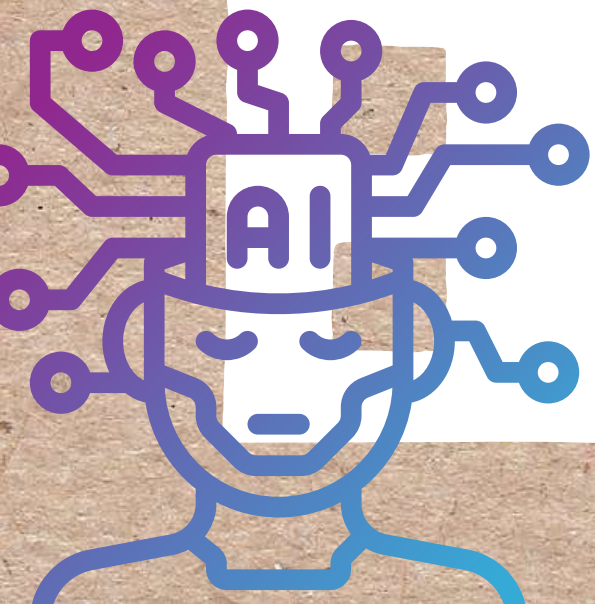
- Mobile app for patient self-service and appointment booking
- Formal Chat between all Employees
- AI can be used for tasks like analyzing patient data to predict health risks, suggesting personalized treatment plans, and even automating some administrative tasks.
- These advancements aim to:
- Further personalize patient care: By leveraging AI and big data, hospitals can tailor treatment plans to individual needs and provide preventative care based on risk factors.
- Enhance patient engagement: Mobile apps and patient portals will empower patients to manage their health information and actively participate in their care.
- Optimize hospital operations: Automation and AI-powered tools can streamline workflows, reduce administrative burdens, and improve resource utilization.





## HOWEVER, CHALLENGES ALSO EXIST, SUCH AS:

- Cybersecurity concerns: Protecting sensitive patient data in a connected healthcare environment requires robust cybersecurity measures.
- Data privacy regulations: Hospitals need to comply with data privacy regulations like HIPAA to ensure patient information remains secure.
- Integration challenges: Integrating new technologies with existing hospital systems can be complex and expensive.







**THANK YOU!**

Any questions? No 😊

