LAB-03

USE CASE DIAGRAM

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Explanation of the reasoning behind the application of each relation type:

Association:

1. Patient

Schedule appointments with healthcare providers.

Access and manage personal medical records.

Engage in online consultations with doctors.

Manage prescriptions and medications.

2. Doctors:

View and manage their appointment schedules.

Access and update patient medical records.

Conduct online consultations with patients.

Manage and prescribe medications.

3. Healthcare Administrators:

Oversee and manage the overall operational aspects of the healthcare system.

Maintain and optimize patient records and information. Manage and allocate staff resources efficiently.

Monitor and ensure the smooth functioning of the HealthHub system.

1. Insurance Providers:

Manage and process insurance claims efficiently.

Access and verify patient billing and insurance information.

Generalization:

Healthcare Professional

Child Actors: Patient, Doctor, Healthcare Administrator

Explanation: This generalization captures the idea that actors involved in the healthcare system can be categorized into healthcare professionals and general users. Healthcare professionals include patients, doctors, and healthcare administrators.

Mobile App Developer:

Develop and maintain the HealthHub mobile application. Ensure user-friendly interfaces for patients, doctors, and administrators. Implement new features to enhance the overall user experience.

Data Analyst: Analyze healthcare data generated by the HealthHub system. Extract insights to improve operational efficiency and patient care. Collaborate with healthcare administrators for data-driven decision-making.

Generalization:

Technology Stakeholder

Child Actors: Mobile App Developer, Data Analyst

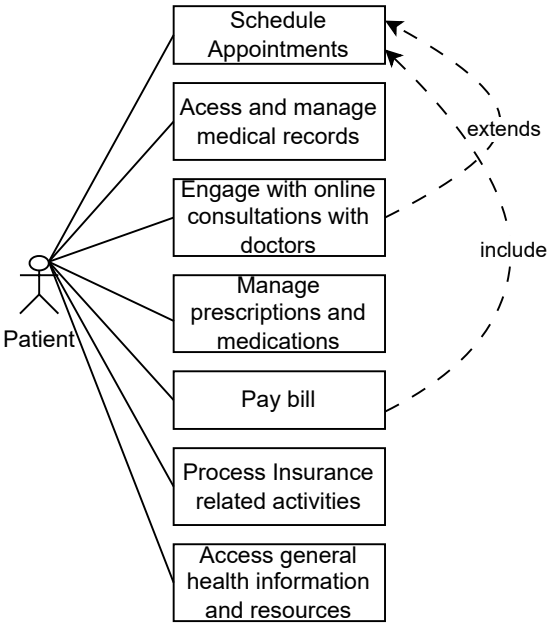
Explanation: This generalization captures the idea that there are stakeholders with specialized roles related to technology within the HealthHub system. It includes actors involved in application development, data analysis, and telecommunications management.

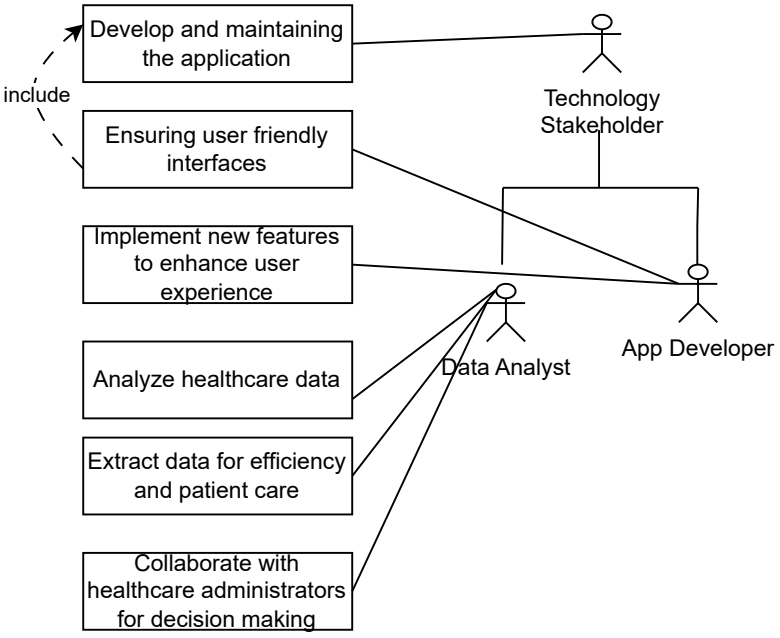
Extend:

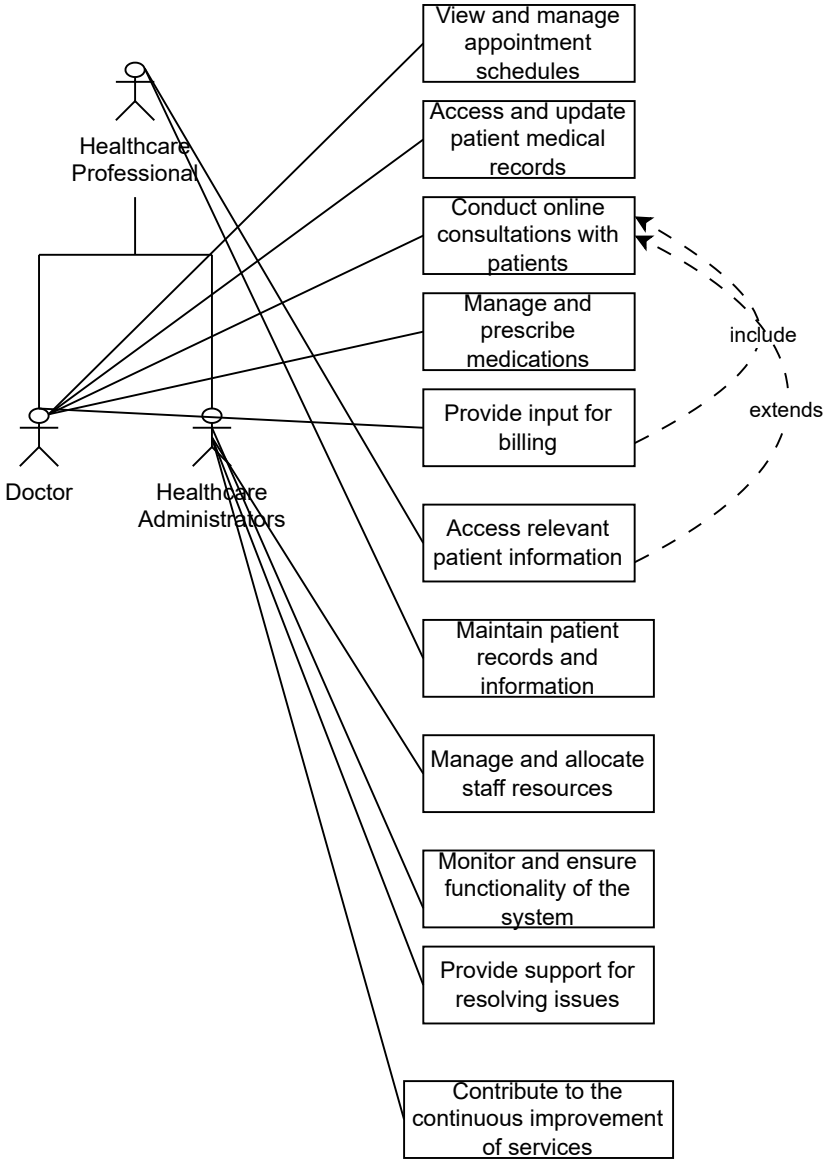
1.Access relevant patient information extends Conduct online consultations with patients

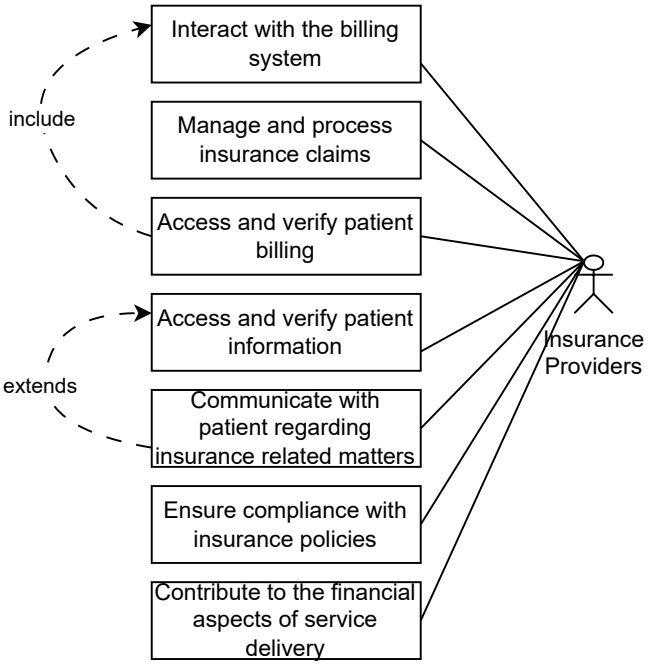
2. Communicate with patient regarding insurance related matters extends Access and verify patient information

3. Engage with online consultations with doctors extends Schedule Appointments









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