

user case name : medical insurance.

area : patient system.

actor : patient.

- 1.Verification of Insurance: The hospital staff will verify the patient's insurance coverage and eligibility to determine the level of coverage and benefits available.
- 2.Admission Process: The patient will be admitted to the hospital, and their medical information, including insurance information, will be documented.
- 3.Treatment and Services: The patient will receive treatment and services as prescribed by their healthcare provider, and the hospital will bill the insurance provider for these services.
- 4.Claim Submission: The hospital will submit a claim to the insurance provider, which will include details of the services provided, the cost, and any applicable deductibles or co-payments.
- 5.Claim Review: The insurance provider will review the claim and determine the amount of coverage and benefits available based on the patient's policy.
- 6.Payment: The insurance provider will make payment directly to the hospital for the covered services, and the patient may be responsible for any applicable deductibles or co-payments.
- 7.Follow-Up: The hospital and insurance provider will communicate with each other to resolve any issues related to the claim or payment, and the patient may receive an explanation of benefits (EOB) from the insurance provider to explain the coverage and benefits provided.

precondition :

- Valid Insurance Policy: The patient must have a valid medical insurance policy that covers the services provided by the hospital.
- Eligibility: The patient must meet the eligibility criteria for their insurance policy, which may include factors such as age, residency, and medical history.
- Pre-Approval: In some cases, the patient may need to obtain pre-approval from their insurance provider before receiving certain services or treatments.

postcondition :

- Payment of Covered Services: The insurance provider will pay for the covered services provided to the patient in the hospital.
- Out-of-Pocket Expenses: The patient may be responsible for paying any deductibles, co-payments, or other out-of-pocket expenses as specified by their insurance policy.

<u>ssn</u>	Name	date_admitted	medical_insurance	date_of_checkout
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doctor

<u>dssn</u>	Name	specialization
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test

Test_id	Test_name	Date_test	Time_test	Result
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pat_doc

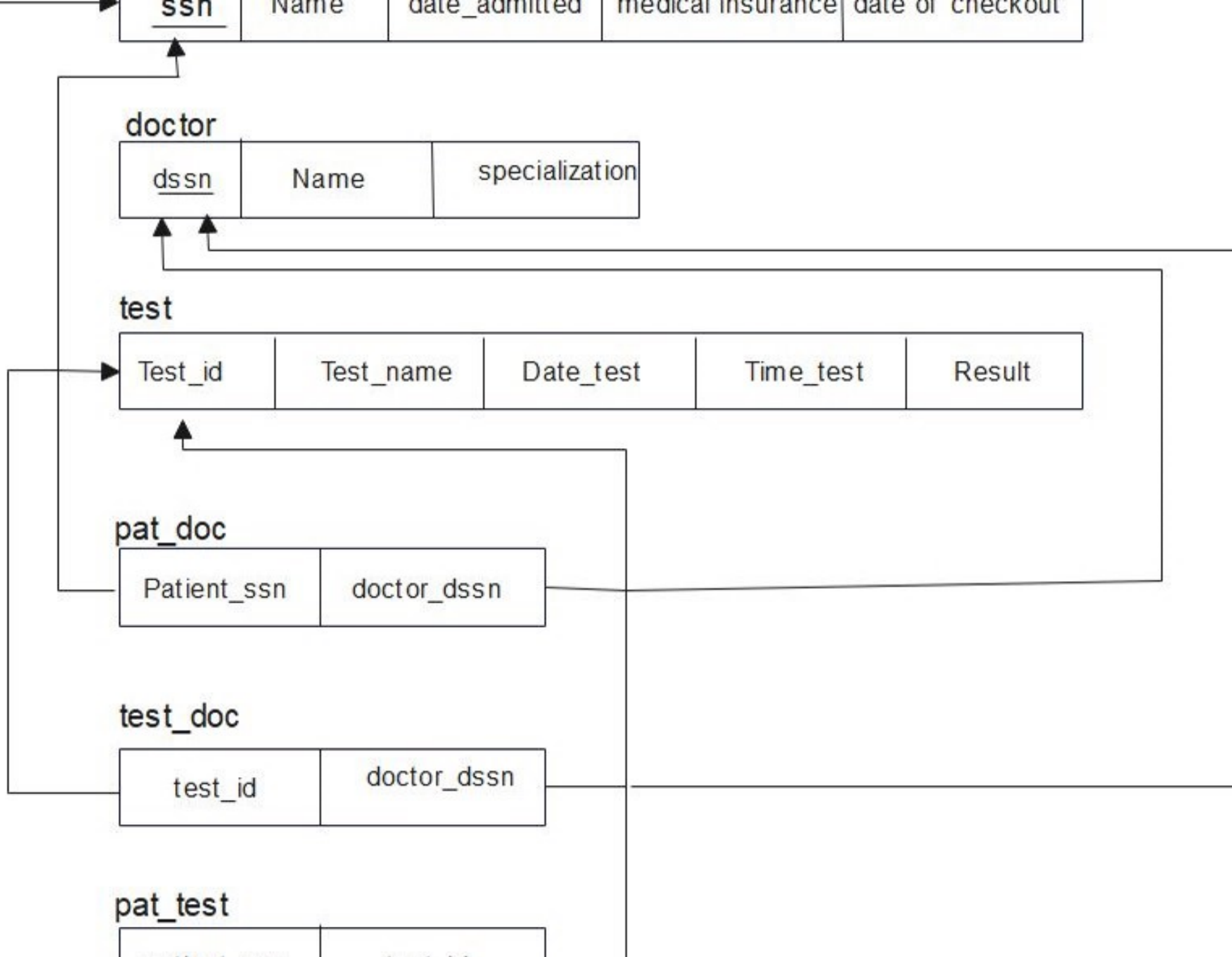
Patient_ssn	doctor_dssn
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test_doc

test_id	doctor_dssn
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pat_test

test_id	Patient_ssn
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user case name : dssn.

area : doctor system.

actor : doctor.

1.Patient Diagnosis and Treatment:

Dr. Smith, a senior physician, encounters a complex case where a patient presents with ambiguous symptoms and unusual medical history. Dr. Smith turns to the DSSN for assistance. Using the system, they input the patient's symptoms, medical history, and test results.

2.Drug Interaction and Allergy Check:

Dr. Johnson is prescribing medication for a patient with multiple chronic conditions. To ensure patient safety, Dr. Johnson uses the DSSN to check for potential drug interactions and allergies. They enter the prescribed medications, the patient's medical history, and current allergies into the system

3.Clinical Decision Support:

Dr. Lee is reviewing a patient's medical records before a critical surgery. They want to ensure they are following the most up-to-date clinical guidelines and best practices. Dr. Lee consults the DSSN, which offers a vast repository of evidence-based knowledge, treatment protocols, and surgical procedures.

4.Patient Monitoring and Alerts:

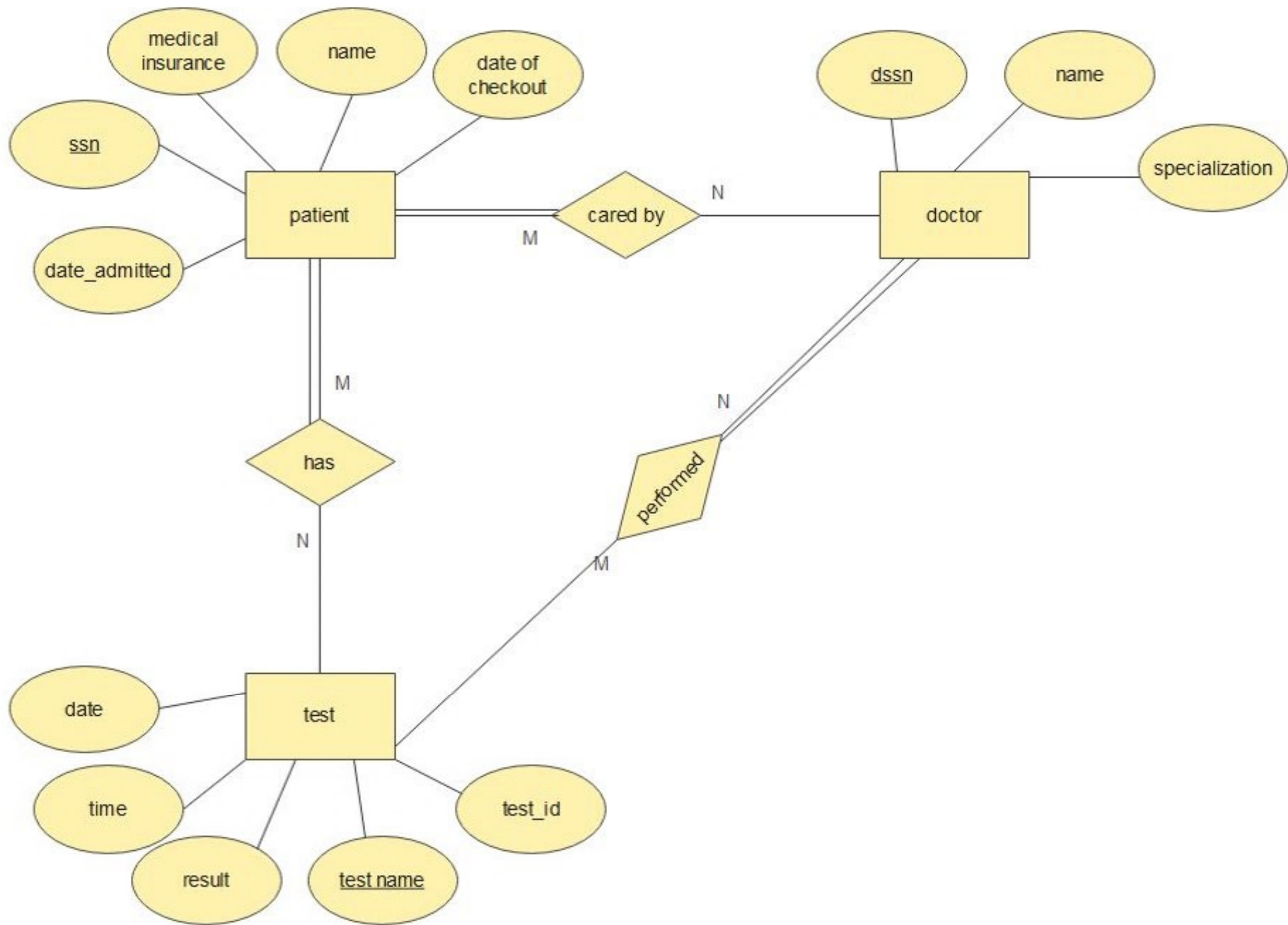
Dr. Williams is responsible for managing a high-risk patient in the Intensive Care Unit (ICU). To ensure timely intervention, Dr. Williams relies on the DSSN's real-time monitoring capabilities.

precondition :

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postcondition :

- Payment of Covered Services: The insurance provider will pay for the covered services provided to the patient in the hospital.*
- Out-of-Pocket Expenses: The patient may be responsible for paying any deductibles, co-payments, or other out-of-pocket expenses as specified by their insurance policy*



patient

Resceptionist

insurance provider

