

Health Care Security Scenario

Nirav Ajmeri

Consider a health care scenario involving the security of patient's electronic health records (EHR).

Dan is ill and getting treatment at Hospital HOS-A. HOS-A is bound by law to keep Dan's electronic health record (EHR) secure. Erin, a healthcare worker at HOS-A, has access to Dan's electronic health record (EHR). She must not share her credentials (username and password) with anyone. If Erin needs to use a public computer (such as the computer in the emergency department) to access Dan's EHR for his treatment, she must log off from the computer as soon as she finishes reviewing Dan's EHR. However, Erin must not view the EHR of her friends unless he is responsible for their treatment.

Deliverables

Your task is to carefully read and think of the nuances in the given scenario. Follow the methodology tutorial given to you, and

- write down the subscenarios you have identified;
- following the steps in the Designing Normative Model section in the tutorial, write the corresponding norms in the format `normName: C/A/P(subject, object, ant, con);`
- identify possible conflicts and resolutions; and
- design state transition diagrams that cover all possibilities