Activity II : Security Policy

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Overview

This activity has two parts. In part I, you are asked to design a physical authentication system for a coffee shop. In part II, you are asked to design an authentication system for an organization.

Part I

Assume that you are about to open a 24-hour coffee shop on the Chulalongkorn University campus called "Too Late To Sleep". The coffee shop must provide services to all members of Chulalongkorn University (no entrance fee) and to outsiders (charge for entrance).

1.1 Identify users and roles of all persons involved in the coffee shop (i.e., different types of customers, non-customers, etc.).

1.2 You can physically design the shop any way you like. Identify the services (resources) you want to support your different customers and whether or not you would like to create different zones with different services (resources). Your shop must at least have:

one entrance door,

one bathroom,

one coffee service area, and

places to sit.

You may add anything else you'd like. Describe the services (resources) in your shop.

1.3 Identify resources that require access

1.4 Apply your knowledge to design the authorization system (e.g. access control) for your customers.

Part II

Assuming that you are now in charge of a new Registration Systems of Chulalongkorn University, please finish the following exercise.

2.1 Identify users and roles of persons related to the service

2.2 Identify resources (data and objects)

2.3 Identify functions (actions for resources)

2.4 Apply your knowledge to design the authorization system. Please specify whether the user (role) should be allowed to access the resource (read and write). Translate your design into an access control matrix.

Your design must include (but not limited) instructors, students, and academic advisors.