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Chapter 3 PractIce Exersizes

**Question 1**: Major Issues with Current System

Answer: The major issues with the current system are:

* Volunteers get lost in the files due to paper forms and are never contacted.
* Animals get lost because the volunteers do not fill out the monthly reports.
* When coming to adopt, not easy to show what animals are available.
* Tracking of reports for animals that have been returned.

**Question 2**: Major Stakeholders

Answer: Staff, Volunteers, Adoptees

**Question 3**: Are animals a stakeholder? Explain answer.

Answer: Animals don't hold shares or directly influence decisions, but their well-being is central to the system’s effectiveness.

**Question 4**: Requirements for each stakeholder

Answer. Staff requirements

* Enter and edit data regarding the new animals.
* Enter and edit data for volunteers who passed background check.
* Enter and edit data about the adoptions.

Volunteers:

* Complete and pass a background check.
* Submit monthly reports about the well-being of animals under their care.
* Follow the shelter's business rules about caring for the animals.

Adoptees:

* Provide valid identification and complete an adoption form.
* Have access to an updated list of available animals.
* Receive comprehensive information about the animal they are interested in adopting.

**Question 5**: Business Rules for the Shelter

Answer: Business Rules would include:

* Animals are entered into the database
* Animals would be sheltered by the volunteers
* Volunteers need to be screened

**Question 6**: Database Security Issues

Answer: Security issues would be

* Private information of the volunteers and adoptees
* Web entry for potential volunteers, information needs to be securely transmitted.

**Question 7**: List of all nouns in the description

Answer: Shelter, pet, foster, adoption, agency, volunteers, species, breed, name, condition, form, check, file, reports, staff.

**Question 8**: List entities from Question 7

Answer: Animals, Foster Caregivers, Shelter Staff, Adoptions, and Monthly Reports

**Question 9**: Attributes for Each Entity

Answer:

* Animals: ID, Species, Breed, Name, Condition
* Foster Caregivers: ID, Name, Contact, Status
* Shelter Staff: ID, Role, Contact
* Adoptions: ID, Animal ID, Adopter, Date
* Monthly Reports: ID, Animal ID, Date, Status

**Question 10**: Candidate Keys

Answer:

* Animals: Animal ID
* Foster Caregivers: Caregiver ID
* Shelter Staff: Staff ID
* Adoptions: Transaction ID
* Monthly Reports: Report ID