



Gyalpozhing College of Information Technology
Royal University of Bhutan



ITW202 MOBILE APPLICATION

Software Requirement Specification

SECTION: B

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1. Purpose

- *To build an online platform for trusted animal shelter to advertise their animals and for interested users to adopt the animal.
- *Efficient and convenient way for animal shelters to advertise the animals
- *To help adopters to easily search for animals

2. Scope

1. System scope:

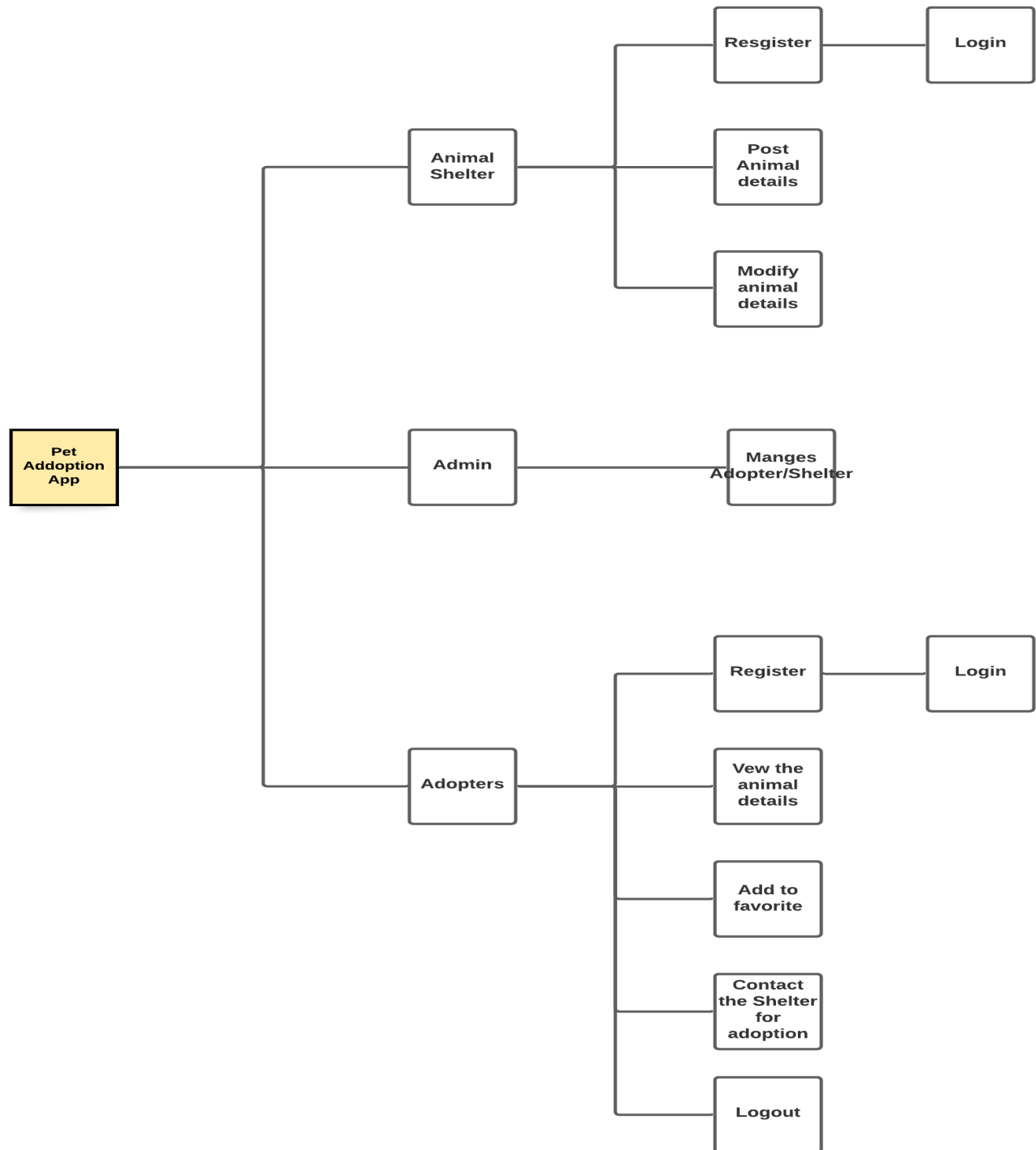
My project will allow the animal Shelters to register in our mobile app. The registered shelters can then login to the app whereby they can perform actions like post details about the Animals, modify the posted animal's details. The adopter can login through email and search for the animal they want to adopt. If they like the animal they add them into their favorite. They can view information about the shelter and contact the shelter for the adoption process. There is also 'learn' feature where the users can learn about different types of dogs, their behaviors and the food they like.

2. User scope:

My project aims to provide a platform for the animal shelter (Dogs and cats only) of Thimphu allowing all the pet adopters in our country to apply for the pet Adoption.

Requirements

1.Functional Requirements



2. Non-Functional Requirements

- i. Responsiveness
- ii. Security of the System
- iii. User Friendly Platform

Software Requirements

1. Operating System: Windows 10/8 (64-bit) or ubuntu 20
2. Android SDK: Android SDK version 16
3. Android Studio: Version 3.0 and above
4. Java Version: JDK 8 (Java Standard Edition Development Kit)
5. Database: Firebase version 19.2.1

Hardware Requirements

1. Developer requirements

Processor: Core i3 and above

Disk space: 3GB minimum(8GB recommended)

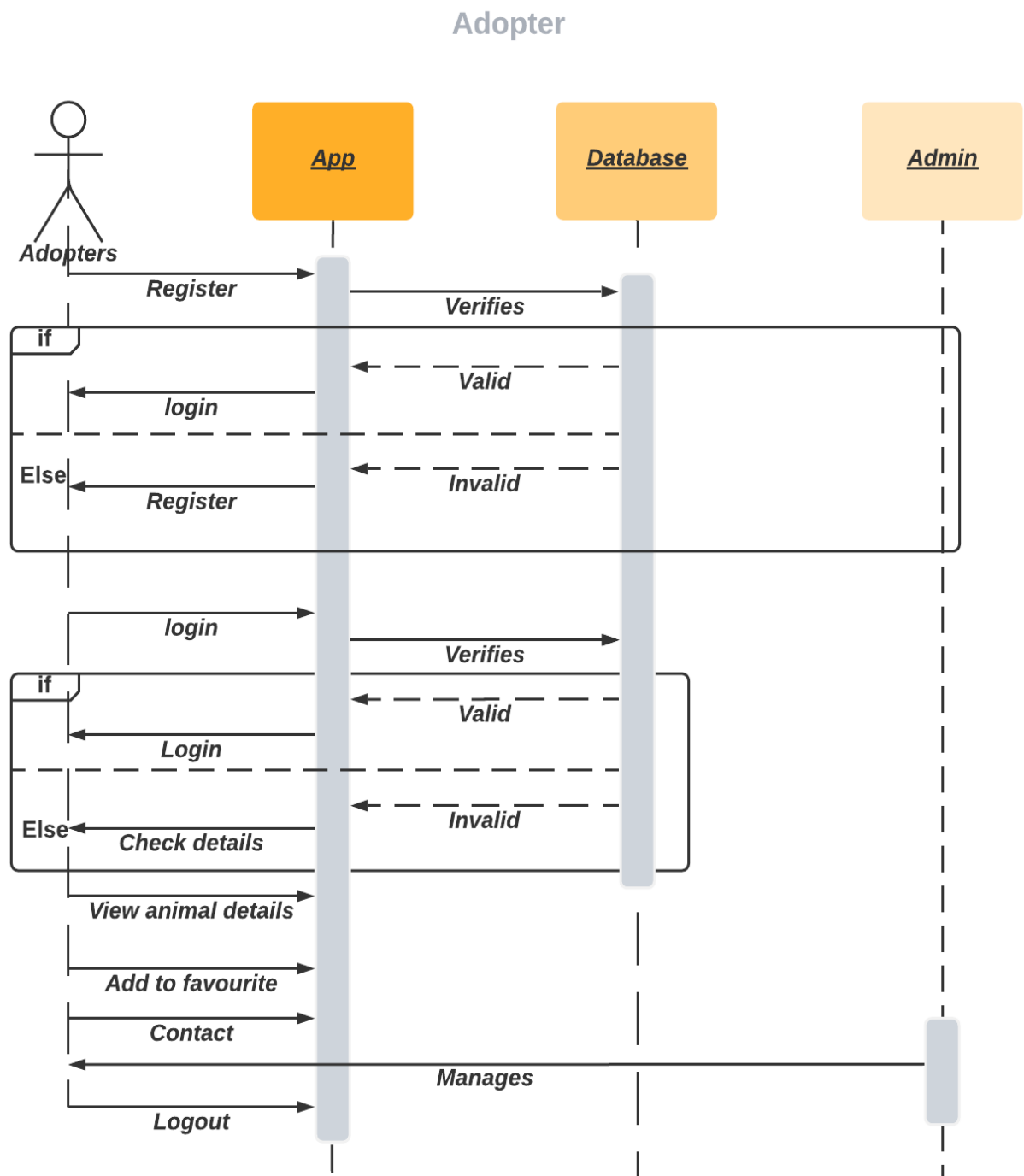
RAM: 4GB and above

2. User requirements

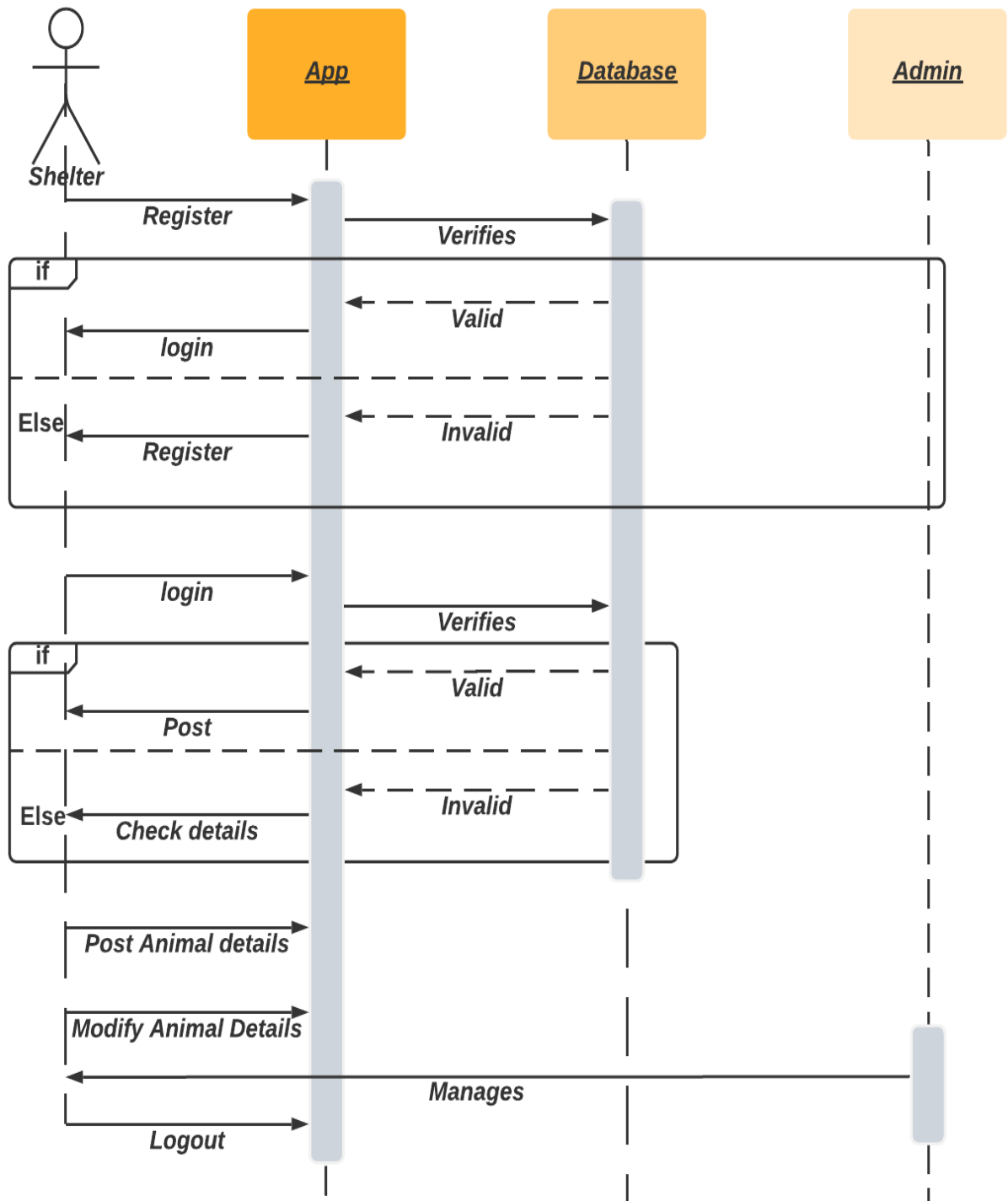
1. Phone storage: 50 MB
2. 2GB RAM

System Design

1. Sequence Diagram

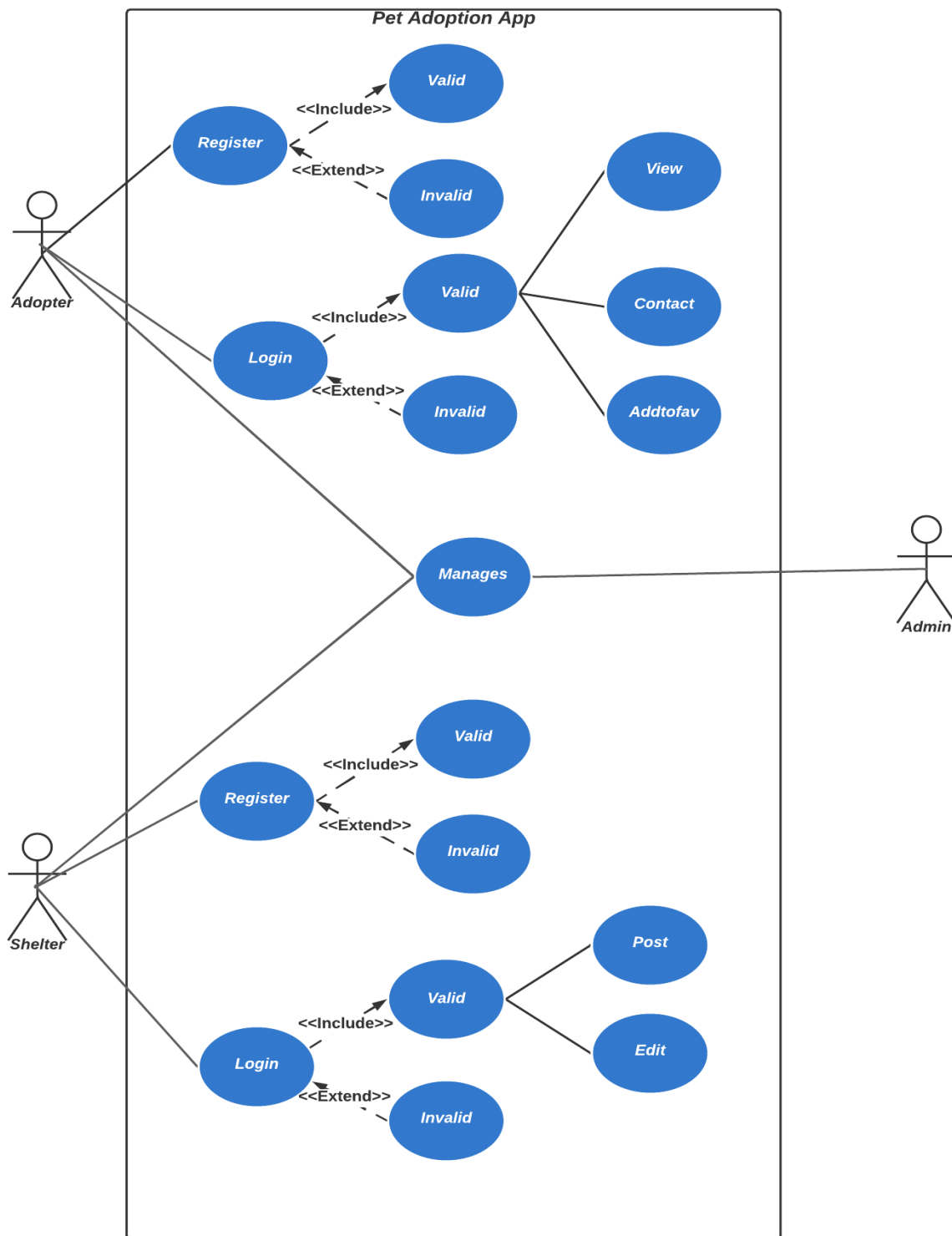


Animal Shelter

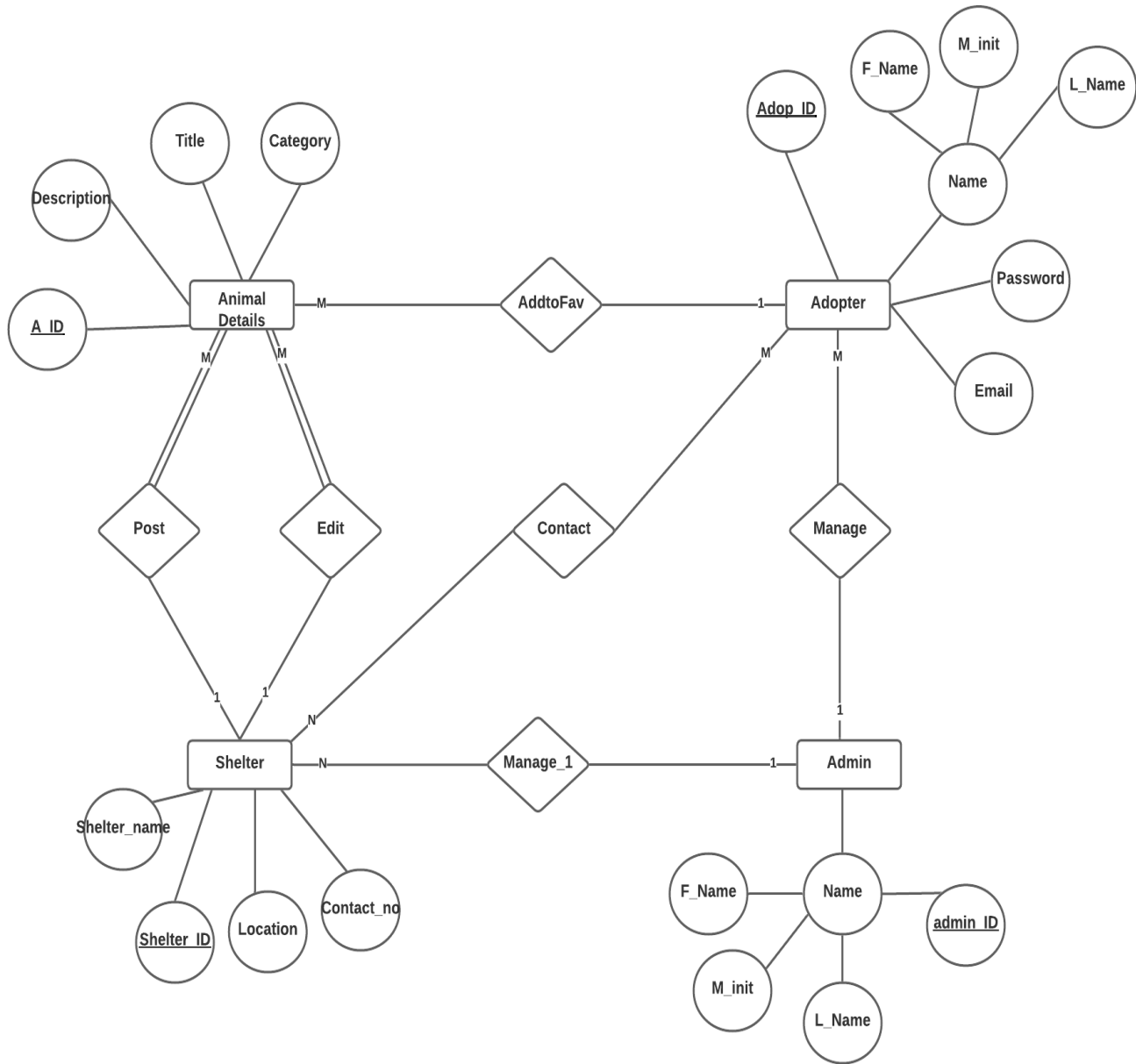


2. UML use case Diagram

UML use case



3. Entity Relationship Diagram



For my ERD, I have four entities namely Animal details, Adopter, Shelter and Admin. For the shelter, one shelter can post many animal details and same for the edit relationship. Shelter should post at least one animal details and it is not necessary to post animal details.

One adopter can add many animal details to favourite and many animal details will be added to favourite by one adopter.

Many adopter can contact many shelter and vice-versa.

One admin can manage many shelter as well as adopter.

4. Relational Schema

