PetData

- age: int
- hunger: int
- thirst: int
- happiness: int
- hygiene: int
- + incrementAge(): void
- + decreaseHunger(): void
- + increaseThirst(): void
- + decreaseHygiene(): void
- + decreaseHappiness(): void
- decrementLevel(level: int, amount: int): void

TamagotchiModel

peng megan | November 17, 2023

Interface<TamagotchiObserver >

+ onAlert(name: String, message:

String): void

TamagotchiModel

- timer: Timer
- petDataMap: Map<String, PetData>
- observers: List<TamagotchiObserver>
- drinkStrategy: DrinkStrategy
- playStrategy: PlayStrategy
- feedStrategy: FeedStrategy
- cleanStrategy: CleanStrategy
- + TamagotchiModel()
- + setDrinkStrategy(strategy: DrinkStrategy): void
- + setPlayStrategy(strategy: PlayStrategy): void
- + setFeedStrategy(strategy: FeedStrategy): void
- + setCleanStrategy(strategy: CleanStrategy): void
- + performAction(petName: String): void
- notifyObservers(name: String, message: String): void
- updatePetStatus(): void

Interface<CleanStrategy >

+ performAction(petData: PetData): void

Interface<DrinkStrategy >

+ performAction(petData: PetData): void

Interface<PlayStrategy >

+ performAction(petData: PetData): void

Interface<FeedStrategy >

+ performAction(petData: PetData): void