Animal

Animal

- assign_animals_to_habitat (habitat_id: int, animals: List[Animal]) -> None
- get_animal_details(animal _id: int) -> dict[str, Any]
- update_animal_details(ani mal_id: int, **kwargs: Any)None

Animal Manager

- get_animal_by_id(animal_id: int) -> Optional[Animal]
- remove_animal(animal_id: int) -> None
- register_animal(Animal) -> None
- assign_animals_to_habitat(a nimals: List[Animal]) -> None

Habitat

Habitat

- update_habitat_details(**kwargs : dict[str: Any]) -> None
- assign_animals_to_habitat(anim als: List[Animal]) -> None
- get_animals_in_habitat() -> List[Animal]
- get_habitat_details() -> dict

Habitat Manager

- get_habitat_by_id(habitat_id: int) -> Habitat
- create_habitat(habitat_id: int, geographic_area: str, size: int, environment_type: str) -> Habitat
- get_habitats_by_type(environ ment_type: str) -> List[Habitat]
- remove_habitat(habitat_id: int)-> None
- get_habitats_by_geographic_a rea(geographic_area: str) -> List[Habitat]
- get_habitats_by_size(size: int)-> List[Habitat]

Migration Manager

- •get_migration_by_id(migration_id: int) -> Migration •get_migrations() -> list[Migration]
- •get_migrations_by_current_location(current_location : str) -> list[Migration]
- •get_migrations_by_migration_path(migration_path_id : int) -> list[Migration]
- •get_migrations_by_start_date(start_date: str) -> list[Migration]
- •remove_migration_path(path_id: int) -> None
 •cancel_migration(migration_id: int) -> None
- •get_migrations_by_status(status: str) -> list[Migration]
- •schedule_migration(migration_path: MigrationPath) -> None
- •create_migration_path(species: str, start_location: Habitat, destination: Habitat, duration: Optional[int] = None) -> None
- •get_migration_path_by_id(path_id: int) ->
 MigrationPath
- •get_migration_paths() -> list[MigrationPath]
 •get_migration_paths_by_destination(destination:
- Habitat) -> list[MigrationPath]
- •get_migration_paths_by_species(species: str) -> List[MigrationPath]
- •get_migration_paths_by_start_location(start_location: Habitat) -> list[MigrationPath]

Migration

Migration Path

- update_migratio n_path_details(p ath_id: int,
 - **kwargs) -> None
- get_migration_pa th_details(path_i d) -> dict

Migration

- get_migration_det ails(migration_id: int) -> dict[str, Any]
- update_migration
 _details(migration
 _id: int, **kwargs:
 Any) -> None

