**UML DIAGRAM**

**Class Descriptions and Methods:**

1. **User Class:**

* Attributes: userID, username, password, email, fullName, address.
* Methods: register(), login(), updateProfile().

1. **Adopter Class:**

* Attributes: adopterID, userID.
* Methods: submitApplication().

1. **Shelter Class:**

* Attributes: shelterID, name, location, contactInfo.
* Methods: addPet(),updatePet(),removePet(),viewApplications(), manageDonations(), manageVolunteers().

1. **Pet Class:**

* Attributes:petID,name, breedID, age, gender, description, healthStatus, shelterID, medicalRecordID.
* Methods: getDetails().

1. **Breed Class:**

* Attributes: breedID, species, breedName.
* Methods: getBreedInfo().

1. **Medical Record Class:**

* Attributes: recordID, petID, vaccinationDetails, medicalHistory.
* Methods: updateRecord(), getRecord().

1. **Application Class:**

* Attributes: appID, adopterID, petID, applicationDate, status.
* Methods: submit(), updateStatus().

1. **Donation Class:**

* Attributes: donationID, shelterID, donorName, amount, donationDate.
* Methods: makeDonation(), viewDonations().

1. **Volunteer Class:**

* Attributes: volunteerID, shelterID, name, contactInfo, availability.
* Methods: signUp(), updateAvailability().

1. **Event Class:**

* Attributes: eventID, shelterID, eventName, date, location, description.
* Methods: createEvent(), updateEvent(), getEventDetails().

1. **Review Class:**

* Attributes: reviewID, adopterID, petID, reviewText, rating.
* Methods: submitReview(), updateReview(), getReviews().

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