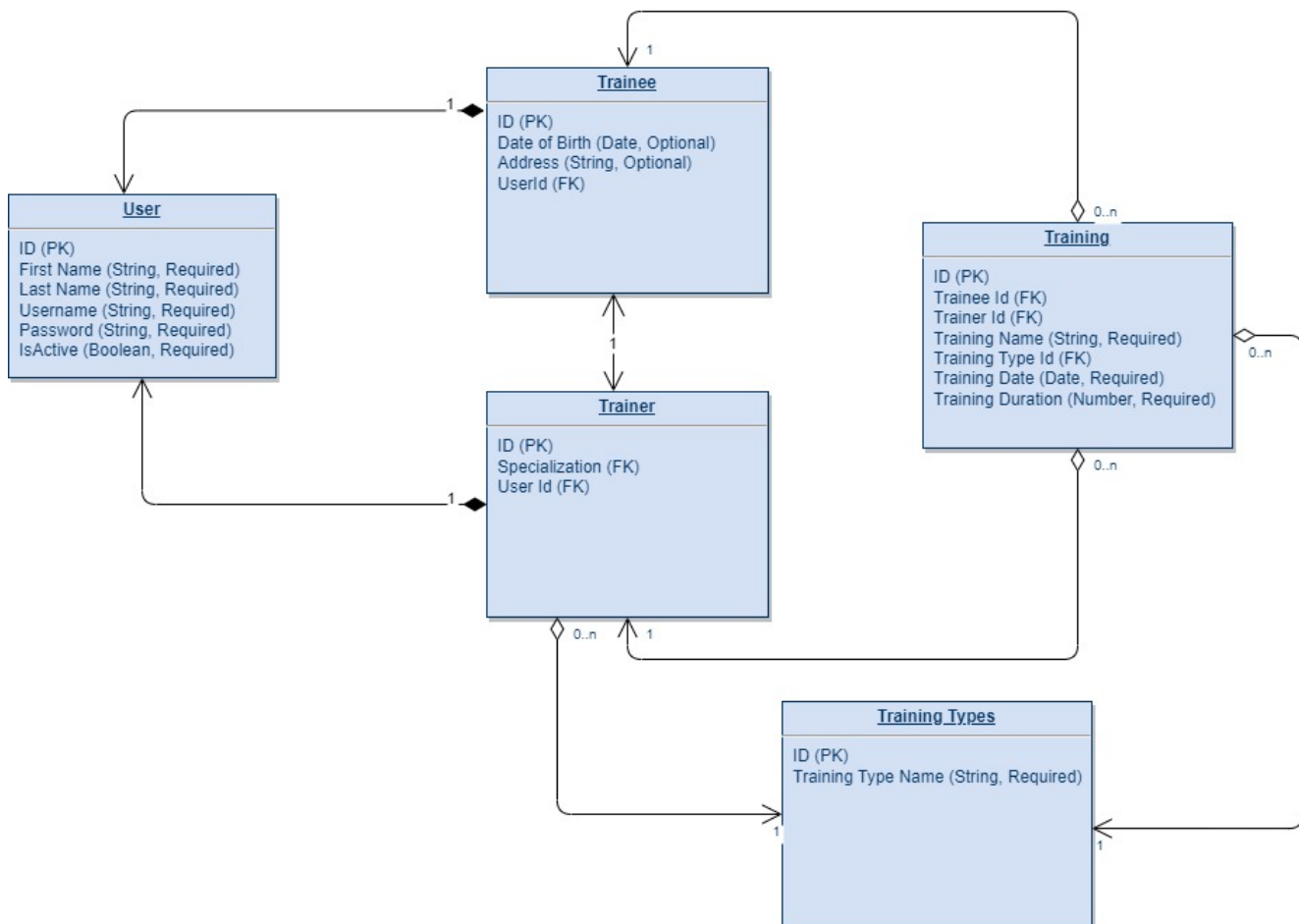


# Hibernate

Based on the codebase created during the previous module and provided DB schema, implement follow functionality:

1. Create Trainer profile.
2. Create Trainee profile.
3. Trainee username and password matching.
4. Trainer username and password matching.
5. Select Trainer profile by username.
6. Select Trainee profile by username.
7. Trainee password change.
8. Trainer password change.
9. Update trainer profile.
10. Update trainee profile.
11. Activate/De-activate trainee.
12. Activate/De-activate trainer.
13. Delete trainee profile by username.
14. Get Trainee Trainings List by trainee username and criteria.
15. Get Trainer Trainings List by trainer username and criteria.
16. Add training.
17. Get not assigned on specific trainee active trainers list.
18. Update Trainee's trainers list



## Notes:

1. During Create Trainer/Trainee profile username and password should be generated as described in previous module.
2. All functions except Create Trainer/Trainee profile. Should be executed only after Trainee/Trainer authentication (on this step should be checked username and password matching)
3. Pay attention on required field validation before Create/Update action execution.
4. Users Table has parent-child (one to one) relation with Trainer and Trainee tables.
5. Trainees and Trainers have many to many relations.

6. Activate/De-activate Trainee/Trainer profile not idempotent action.
7. Delete Trainee profile is hard deleting action and bring the cascade deletion of relevant trainings.
8. Training duration have a number type.
9. Training Date, Trainee Date of Birth have Date type.
10. Training related to Trainee and Trainer by FK.
11. Is Active field in Trainee/Trainer profile has Boolean type.
12. Training Types table include constant list of values and could not be updated from the application.
13. Each table has its own PK.
14. Try to answer what can be the reason to save one to many relations between Training and Training Type tables.
15. Use transaction management to perform actions in a transaction where it necessary.
16. Configure Hibernate for work with DBMS that you choose.
17. Cover code with unit tests. Code should contain proper logging.