

«Stereotype» view::Panel
-root : Pane -title : String
+render() : void +updateContent() : void +getRoot() : Pane

«Stereotype» view::MainMenu
-stage : Stage -profilePanel : SubScene -trainingPanel : SubScene
+show() : void +openProfile() : void

«Stereotype» view::ProfileView
-stage : Stage -user : User -progressChart : LineChart
+showUserData() : void +displayProgressGraph() : void +updateProfileData(user : User) : void

«Stereotype» controller::TrainingController
-currentUser: User
+getRecommendedExercises() : List<Exercise> +createTrainingPlan(selectedExercises : List<Exercise>) : void +saveTrainingResults(day : Day) : void

«Stereotype» controller::MainController
-currentUser: User -view: int
+startApp() : void +openMainMenu() : void +openProfileView() : void +openTrainingView() : void +logout() : void

«Stereotype» model::User
-id : int (PK) -username : String -age : int -weight : double -height : double -sex : String -password: String
+updateProfile(age : int, weight : double, height : double, sex : String) : void

«Stereotype» model::Plan
-id: int «PK» -name: String -startDate: date -endDate: date -exercises_per_day: int[][] «FK» -user: int «FK»

«Stereotype» model::Exercise
-id : int -name : String -description : String -muscleGroup : String -difficulty : String -duration : int
+getRecommendationScore(user : User) : double +isSuitableForUser(user : User) : boolean +toString() : String

«Stereotype» model::Day
-id: int «PK» -date: date -steps: int -caloriesIntake : int -caloriesBurned : int -exercises_completed: boolean -user: int «FK» -plan: int «FK»
+getNetCalories() : int +updateSteps(steps : int) : void

«Stereotype» model::Weight_Exercise

«Stereotype» model::Cardio_Exercise