MemberManager

- parser: JsonParser
- yesterday: QDate
- subscription_maintain_thread: std::thread*
- members_array_mutex: std::mutex
- http_manager: HttpManager

+ SaveMember() override
+ RegisterNewMember() override
+ DeleteMember() override
+ GetMember()

HttpManager

+ token : QString

Measurement

- taken_date: QDate
- weight: float
- shoulder: float
- chest: float
- arm: float
- belly: float
- hip: float
- leg: float

+ toJson()

Member

- name: QString
- age: int
- all_measurements: vector<Measurement>
- archived_subscriptions: vector<Subscription>
- archived_exercise_plans: vector<ExercisePlan>

+ AddMeasurement()
+ AddSubscriptionToArchive()
+ EndSubscription()
+ AddExercisePlanToArchive()
+ ArchiveCurrentExercisePlan()
+ toJson()

<<JsonContainer>>

- members_array: QJsonArray
- file_path: QString

+ SaveMember() = 0
+ RegisterNewMember() = 0
+ DeleteMember() = 0
- SaveToFile()

JsonParser

- ParseMeasurements()
- ParseSubscriptions()
- ParseWeeklyExercisePlan()
- ParseArchivedWeeklyExercisePlans()
- ParseExercise()
+ ParseMemberFromJson()

PutRequest

- parent : HttpManager*

+ PushMemberJsonData()
- GetHttpReply() override

GetRequest

- parent : HttpManager*

+ FetchMemberJsonData()
- GetHttpReply() override

PostRequest

- parent : HttpManager*

+ LoginRequest()
+ RegisterRequest()
- GetHttpReply() override

<<NetworkCore>>

- http_manager : QNetworkAccesManager
- http_reply : QNetworkReply*
- http_body_data : QJsonDocument

+ GetHttpReply() = 0
+ SendHttpRequest()
+ ReadBody()

WeeklyExercisePlan

- weekly_plan: vector<DailyExercisePlan>
- start_date: QDate
- end_date: QDate

+ AddNewDailyExercisePlan()
+ GetRemainingDays()
+ ClearWeeklyExercisePlan()
+ HasWeeklyExercisePlan()
+ toJson()

Subscription

- start_date: Qdate
- end_date: QDate
- status: bool

+ ExtendSubscriptionEndDate()
+ EndSubscription()
+ toJson()

PaymentPlan

- price: int
- num_of_installments: int
- payments: vector<Payment>

+ OneInstallmentQuantity()
+ RemainingInstallmentQuantity()
+ RemainingPaymentsTotal()
+ ReplaceDefaultPayments()
+ Pay()
+ toJson()

Payment

- quantity: int
- due_date: QDate
- paid: bool

+ MakePaid()
+ toJson()

DailyExercisePlan

- daily_plan: vector<Exercise*>
- cooldown_period: int

+ AddNewExercise()
+ toJson()

StrenghtWorkout

- set: int
- repeat: int

+ toJson()

CardioWorkout

- durition: int

+ toJson()

**«enumeration»
ExerciseType**

Cardio,
Shoulder,
Chest,
Back,
Arm,
Belly,
Hip,
Leg

<<Exercise>>

- type: ExerciseType
- name: ExerciseName

+ toJson() = 0
+ toString()
+ fromStringToExerciseType()
+ fromStringToExerciseName()

**«enumeration»
ExerciseName**

TreadmillRunning,
TreadmillWalking,
StationaryBike,
StairClimber,
BenchPress,
DumbbellInclinePress,
LatPulldown,
BarbellRow,
OverheadPress,
DumbbellLateralRaise