SerializedData

- HashMap<Integer, Race> races {readOnly}
- HashMap<Integer, Team> teams {readOnly}

+ saveData(String filename, CyclingPortalImpl portal) : void
+ loadData(String filename, CyclingPortalImpl newPortal) : void
+ getRaces() : HashMap<Integer, Race>
+ getTeams() : HashMap<Integer, Team>

«interface» MiniCyclingPortal

«interface» CyclingPortal

CyclingPortalImpl

- myRaces : HashMap<Integer, Race> {readOnly}
- myTeams : HashMap<Integer, Team> {readOnly}
- errorChecker : ErrorChecker {readOnly}

+ getRaceIds() : int[*] {unique}
+ createRace(String name, String description) : int
+ viewRaceDetails(int raceId) : String
+ removeRaceById(int raceId) : void
+ getNumberOfStages(int raceId) : int
+ addStageToRace(int raceId, String stageName, String description, double length, LocalDateTime startTime, StageType type) : int
+ getRaceStages(int raceId) : int[*] {unique}
+ getStageLength(int stageId) : double
+ removeStageById(int stageId) : void
+ addCategorizedClimbToStage(int stageId, Double location, CheckpointType type, Double averageGradient, Double length) : int
+ addIntermediateSprintToStage(int stageId, double location) : int
+ removeCheckpoint(int checkpointId) : void
+ concludeStagePreparation(int stageId) : void
+ getStageCheckpoints(int stageId) : int[*] {unique}
+ createTeam(String name, String description) : int
+ removeTeam(int teamId) : void
+ getTeams() : int[*] {unique}
+ getTeamRiders(int teamId) : int[*] {unique}
+ createRider(int teamID, String name, int yearOfBirth) : int
+ removeRider(int riderId) : void
+ registerRiderResultsInStage(int stageId, int riderId, LocalTime... checkpointTimes)
+ getRiderResultsInStage(int stageId, int riderId) : LocalTime[*] {nonunique}
+ getRiderAdjustedElapsedTimeInStage(int stageId, int riderId) : LocalTime
+ deleteRiderResultsInStage(int stageId, int riderId) : void
+ getRidersRankInStage(int stageId) : int[*] {unique}
+ getRankedAdjustedElapsedTimesInStage(int stageId) : LocalTime[*] {nonunique}
+ getRidersPointsInStage(int stageId) : int[*] {nonunique}
+ getRidersMountainPointsInStage(int stageId) : int[*] {nonunique}
+ eraseCyclingPortal() : void
+ saveCyclingPortal(String filename) : void
+ loadCyclingPortal(String filename) : void
+ removeRaceByName(String name) : void
+ getRidersGeneralClassificationRank(int raceId) : int[*] {unique}
+ getGeneralClassificationTimesInRace(int raceId) : LocalTime[*] {nonunique}
+ getRidersPointsInRace(int raceId) : int[*] {nonunique}
+ getRidersMountainPointsInRace(int raceId) : int[*] {nonunique}
+ getRidersPointClassificationRank(int raceId) : int[*] {unique}
+ getRidersMountainPointClassificationRank(int raceId) : int[*] {unique}

getRaceById(int raceId) : Race
getStageById(int stageId) : Stage
getCheckpointById(int checkpointId) : Checkpoint
getTeamById(int teamId) : Team
getRiderById(int riderId) : Rider
getMyTeamsMap() : HashMap<Integer,Team>
getMyRacesMap() : HashMap<Integer,Race>

- checkNameLegal(String trialName, nameUnusedType type): void

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Race

- name: String {readOnly}
- description: String {readOnly}
- stages: HashMap<Integer, Stage> {readOnly}

+ addStage(Stage) : void
+ removeStage(int stageId) : void
+ getRidersGeneralClassificationTimes() : LocalTime[*] {nonunique}
+ getRidersGeneralClassificationRanks() : int[*] {unique}
+ getRidersMountainPoints() : int[*] {nonunique}
+ getRidersMountainPointsRankings() : int[*] {unique}
+ getRidersSprintPointsRankings() : int[*] {unique}
+ getRidersSprintPoints() : int[*] {nonunique}
- getRiderGeneralClassificationTime(int riderId) : LocalTime
- getRiderMountainPoints(int riderId) : int
- getRiderSprintPoints(int riderId) : int
+ getName() : String
+ getDetails() : String
+ getStages() : HashMap<Integer, Stage>

«abstract» Entity

id: int {readOnly}
usedIds :ArrayList<Integer> {readOnly}

- calculateUniqueId() : int
getId() : int
+ freeId() : void
# remove(): void

Team

- name: String {readOnly}
- description: String {readOnly}
- myRiders: HashMap<Integer, Rider> {readOnly}

+ remove() : void
+ addRider(Rider rider) : void
+ removeRider(int RiderId) : void
+ getRiders() : HashMap<Integer,Rider>
+ getName() : String
+ getDetails() : String

< T extends Comparable <T> > PointsHandler

- riderRanks : int[*] {unique}
- riderScores T[*] {nonunique}
- reversed: boolean {readOnly}
- getScore : Function<Integer, T> {readOnly}
- stages : ArrayList<Stage> {readOnly}

- sortRiders() : void
- convertToArray (ArrayList<T>) : T[*] {nonunique}
+ getPassTime(int riderId) : LocalTime
+ getRiderRanks() : int[*] {unique}
+ getRiderTimes() : LocalTime[*] {nonunique}

Rider

- myTeam : Team {readOnly}
- name : String {readOnly}
- yearOfBirth: int {readOnly}

+ remove() : void
+ registerForStage(int stageId) : void
+ getMyTeam() : Team
+ getDetails() : String
+ getRegisteredStages() : ArrayList<Stage>

Stage

- name : String {readOnly}
- type : StageType {readOnly}
- description : String {readOnly}
- length : double {readOnly}
- prepared : boolean
- parentRace : Race {readOnly}
- myCheckpoints : HashMap<Integer, Checkpoint> {readOnly}
- checkpointOrder : ArrayList<Integer> {readOnly}
- startTimes : HashMap<Integer, LocalTime> {readOnly}
- finishTimes : HashMap<Integer, LocalTime> {readOnly}

+ registerResults(int riderId, LocalTime... times) : void
+ addCheckpoint(Checkpoint checkpoint) : void
+ concludePreparation() : void
+ removeCheckpoint(int checkpointId) : void
+ removeRider(int riderId) : void
+ removeIdFromUsedIds() : void
+ getName() : String
+ getType() : StageType
+ getLength() : double
+ getCheckpoints(): ArrayList<Checkpoint>
+ getPrepared() : boolean
+ getRegisteredRiders() : ArrayList<Integer>
+ getParentRace : Race
+ getSprintPoints(int riderId) : int
+ getRidersSprintPoints(int[*] {unique} orderedRiders) : int[*] {nonunique}
+ getMountainPoints(int riderId) : int
+ getRidersMountainPoints(int[*] {unique} orderedRiders) : int[*] {nonunique}
+ getElapsedTime(int riderId) : LocalTime
+ getAdjustedElapsedTime(int riderId) : LocalTime
+ getResults(int riderId) : LocalTime[*] {nonunique}
+ getRidersRankInStage() : int[*] {unique}
+ getRankedAdjustedElapsedTimesInStage(): LocalTime[*] {nonunique}

IntermediateSprint

+ getMountainPoints(int rider) : int
+ getIntermediateSprintPoints(int rider) : int

«abstract» Checkpoint

passTimes: HashMap<Integer, Localtime>
- location: double
- myType: CheckpointType
- parentStage : Stage

+ recordTime(int riderId, LocalTime passTime) : void
+ pushCheckpoint(int id, Checkpoint Checkpoint): void
+ getPassTime(int riderId) : LocalTime
+ removeRider(int riderId) : void
+ getParentStage() : Stage
+ getMountainPoints(int rider): int
+ getIntermediateSprintPoints(int rider): int

Climb

- avgGradient: double
- length: double

+ getLength(): Double
+ getAverageGradient() : Double
+ getMountainPoints(int rider): int
+ getIntermediateSprintPoints(int rider): int