

## CyclingPortalImpl

## Attributes int numRaces --> number of races used to make IDs int numRiders --> used for rider IDs int numStages lint numTeams HashMap raceNamelds --> HashMap with Name as the Key and IDs as the value HashMap raceldNames --> HashMap with race Ids as the key and names as the values HashMap raceNames --> Race name as key, the Race object as value HashMap raceStages --> Race id as key, list of stage IDs as value HashMap stageRaces --> Stage id as key, race ID as value HashMap stageNameIds HashMap stageIdNames HashMap stageNames HashMap riderIdObj --> Rider ID as key, rider object as value HashMap teamRiders HashMap riderTeam HashMap teamNamelds HashMap teamIdNames HashMap teamNames HashMap stageCheckpoints --> stageId as key, list of checkpoint IDs as value HashMap stageCheckpointIds --> Stage ID as key, Hashmap containing checkpoint ID and checkpoint object as HashMap checkpointStage HashMap stagePreparation --> stageID for key, String saying if preparing or waiting for results as value HashMap stageRiders HashMap ridersStageResults HashMap stageRiderElapsed HashMap IdElapse HashMap adjusted Elapse Various int[] lists containing values for points awarded based on placement in a checkpoint relative to checkpoint difficulty Methods createRace(string name, string description) return int viewRaceDetails(int raceId) return string removeRaceById(int raceId) void getNumberOfStages(int raceId) return int addStageToRace(int raceId, String stageName, String description, double length, localdatetime startTime, StageType type) return int getRaceStages(int raceId) return int[] getStageLength(int stageId) return double removeStageById(int stageId0 void addCategorizedClimbTostage(int stageid, double location, checkpointtype type, double averagegradient, double lenath) returns int addIntermediateSprinttostage(int stageId, double location) return int removeCheckpoint(int checkpointId) void concludeStagePreparation(int stageId) void getStageCheckpoints(int stageId) returns int[] createTeam(string name, string description) return int removeTeam(int teamId) void getTeams() returns int[] getTeamRiders(int teamId) returns int[] createRider(int teamId, string name, int yearofbirth) returns int removerider(int riderId) void registerriderresultsinstage(int stageId, int riderId, localtime... checkpoints) void getriderresultsinstage(int stageid, int riderid) returns LocalTime[] getrideradjustedelapsedtimeinstage(int stageid, int riderid) returns LocalTime deleteRiderresultsinstage(int stageId, int stageId) void getRiderrankinstage(int stageId) returns int[] getrankadjustedelapsedtimesinstage(int stageId) returns localtime[] getriderspointsinstage(int stageId) returns int[] getRidersmountainpointsinstage(int stageId) returns Int[] erasecyclingportal() void savecyclingportal(string filename) void loadcyclingportal(string filename) void removeracebyname(string name) void getgenerallclassficationtimesinrace(int raceId) return LocalTime[] getRkidersPointsInRace(int raceId) return int[] getridersmountainpointsinrace(int raceld) return int[] getridersgeneralclassificationrank(int raceid) return int[] getRiderspointClassificationrank(int raceId) return int[]

getRiderMoutainPointClassificationRank(int raceId) return int[]