model HeadCoach -numberTeams: int -championships: ArrayList<String> headCoach +HeadCoach(name: String, id:String, salary:double, yearsExperience:int, numberTeams:int, championships:ArrayList<String>) +getNumberTeams():int +setNumberTeams(numberTeams:int):void implements +getChampionships():ArrayList<String> +setChampionships(championships:ArrayList<String>):void +addChampionship(championship:String):String implements +championshipsToString():String +toString():String offices[6][6] -yearsExperience: int +Coach(name:String, id:String, salary:double, yearsExperience:int) +getYearsExpperience():int +setYearsExperience(int yearsExperience):void +toString():String **AssistantCoach** +MAX\_SKILLS: int=6 +calculatePrice(): double -wasPlayer: boolean +AssistantCoach(name:String, id:String, salary:double, yearsExperience:int, wasPlayer:boolean, skills:String[]) +getWasPlayer():boolean +setWasPlayer(wasPlayer:boolean):void +getSkills():Skill[]
+setSkills(Skill[] skills):void
+wasPlayerToString():String +skillsToString():String +addSkill(skill:String):String +toString():String Club {interface} +MAX\_OFFICE\_ROWS: int=6 +MAX\_OFFICE\_COLS: int=6 Level <<enumeration>> Skill {abstract} Employee +calculateLevel(): double -name: String OFFENSIVE -nit: String DEFENSIVE -name: String -foundationDate: String 1..6 POSSESSION LABORATORY\_PLAYS employees -id: String -salary: double -activeStatus: boolean PSYCHOLOGIST +Club( name:String, nit:String, foundationDate:String, teamNameA:String, teamNameB:String) PHYSIOTHERAPIST +get\*():\* +set\*(\*):void +Employee(name:String, id:String, salary:double) +getMAX\_SKILLS(): int +findEmployee(id: String):Employee +get\*():\*
+set\*(\*):void
+statusToString():String
+toString():String +findTeam(teamX: char):Team +hireEmployee(team: char, name: String, id:String, salary:double, number:int, averageRating:double, position:String): String
+hireEmployee(team: char, name: String, id:String, salary:double, yearsExperience:int, numberTeams:int, championships:ArrayList<String>): String
+hireEmployee(team: char, name: String, id:String, salary:double, yearsExperience: int, wasPlayer: boolean, skills:String[]):String club +fireEmployee(id: String):String +searchEmployee(id:String):int +updateSalary(id:String, salary:double):String +findEmployeeInTeam(objEmployee: Employee):Team +updateNumberPlayer(id:String, number: int):String +updateGoalsPlayer(id:String, goals:int):String +updateAverageRatingPlayer(id:String, averageRating: double):String +updatePosition(id:String, position:String):String +updateYearsExperience(id:String, yearsExperience:int):String +updateNumberTeams(id:String, numberTeams:int):String +updateChampionships(id:String, championship:String):String +updateWasPlayer(id:String):String +updateSkill(id:String, skill:String):String +showEmployeeInfo(id:String):String implements Player +officeLocations():String
+placeCoachInOffice(coach:Coach):void
+removeCoachFromOffice(coach:Coach):void -number: int -goals: int -averageRating: double +updateTeamName(teamX:char, teamName:String):String
+addLineup(teamX:char, dateLineup:String, tactic:String, defenders:int, midfielders:int, fordwards:int):String implements +Player( name: String, id:String, salary:double, number:int, averageRating:double, position:String) +showFacilities():String +get\*():\* +set\*(\*):void +toString():String +showAllEmployees():String +showEmployee(id:String):String +showAllTeams():String +showTeam(teamX:char):String +showClub():String teamA <<enumeration>> Position GOALKEEPER DEFENDER Team MIDFIELDER changingRooms[][] FORDWARD +MAX\_PLAYERS: int=25 +MAX\_CRA\_ROWS: int=7 +MAX\_CRA\_COLS:int=7 +MAX\_CRB\_ROWS: int=7 +MAX\_CRB\_COLS:int=6 +MAX\_AS\_COACHES: int=3 -team: char -name: String -crRows: int -crCols: int +Team(team:char, name:String) players +get\*():\* +set\*(\*):void +findEmployee(objEmployee:Employee):Employee +canHirePlayer():boolean +numberPlayerÄvailable(number:int):boolean +hirePlayer(name:String, id:String, salary:double, number:int, averageRating:double, position: String): Player +canHireHeadCoach():boolean +hireHeadCoach(name:String, id:String, salary:double, yearsExperience:int, numberTeams:int, championships:ArrayList<String>):HeadCoach +hireAssistantCoach(name: String, id:String , salary:double, yearsExperience: int, wasPlayer: boolean, skills:String[]):AssistantCoach assistantCoaches +fireEmployee(objEmployee:Employee):void +changingRoomLocations():String +findLineup(dateLineup:String):Lineup +addLineup(dateLineup:String, tactic:String, defenders:int, midfielders:int, fordwards:int):String +employeesToString():String +lineupsToString():String +toString():String +MAX\_FORMATION\_ROWS:int =10 lineups +MAX\_FORMATION\_COLS: int=7 <<enumeration>>
Tactic -formation[10][7]: int POSSESSION +Lineup(date:String, tactic:String) COUNTERATTACK +get\*():\* +set\*(\*):void HIGH\_PRESSURE DEFAULT +formationMatrix(defenders:int, midfielders:int, fordwards:int):void +formationMatrixToString():String +formationForMedia():String +toString():String

#Main()
+main(String[]):void
+showMenu(): int
+chosenOption(op:int):void
+createClub():void
+hireEmployee():void
+fireEmployee():void
+updateEmployee():void
+updatePlayer(id: String):void
+updateHeadCoach(id: String):void
+updateAssistantCoach(id:String):void
+updateTeam():void
+showFacilities():void
+showEmployees():void
+showTeams():void
+showClub():void