```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
namespace CupPlaner.Helpers
    public class Validator
        CupDBContainer db = new CupDBContainer();
        // Validates to check if teams in a match are available for a given time
        public bool areTeamsFree(Match m, DateTime startTime)
            // Start time can not be earlier than the tournament stage start time
            if (m.TournamentStage.TimeInterval.StartTime > startTime)
            {
                return false;
            foreach (Team team in m.Teams)
                // Get the time interval for a team and for the parameter date
                TimeInterval timesForDate = team.TimeIntervals.First(x =>
x.StartTime.Date == startTime.Date);
                // Start time can not be earlier than teams start time and the match can
not end later than a teams end time
                if (startTime < timesForDate.StartTime ||</pre>
startTime.AddMinutes(m.Duration) > timesForDate.EndTime)
                {
                    return false;
                }
                // Check all the matches for the team
                foreach (Match match in team.Matches)
                    if (match.IsScheduled && startTime.AddMinutes(m.Duration * 2) >
match.StartTime)
                        DateTime teamBreakDone =
match.StartTime.AddMinutes(match.Duration * 2);
                        if (startTime < teamBreakDone)</pre>
                            return false;
                    }
                }
            }
            return true;
        //Function that checks for different parameters that needs to be fulfiled for the
cup to be able to be scheduled
        public bool IsScheduleReady(int tournamentId)
            bool isValid = true;
            Tournament t = db.TournamentSet.Find(tournamentId);
            bool fieldIsValid;
```

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if(t.Divisions.Count < 1)</pre>
                 isValid = false;
                 return isValid;
             }
            else
             {
                 foreach (Division d in t.Divisions)
                     fieldIsValid = false;
                     foreach(Field f in d.Tournament.Fields)
                         if(f.Size == d.FieldSize)
                         {
                             fieldIsValid = true;
                         }
                     if (fieldIsValid == false)
                         isValid = false;
                         return isValid;
                     if (d.Pools.Count < 1)</pre>
                         isValid = false;
                         return isValid;
                     foreach (Pool p in d.Pools)
                         if (p.Teams.Count <= 1)</pre>
                              isValid = false;
                              return isValid;
                         }
                     }
                 }
             }
            return isValid;
        }
    }
}
```