```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4 using UnityEngine.UI;
6 public class gameStatKeeper : MonoBehaviour
      /// <summary>
      /// keeps info about each passport and records player mistakes that
        may be used when calculating player ranks
       /// the clases are kinda uselessly complicated but it works
      /// </summary>
       [SerializeField]
      private List<statEntry> stats;
       [SerializeField]
      private otherStats otherStat;
      [SerializeField]
      private List<otherStats> otherStats;
      [SerializeField]
      public allTheStats Allstats;
      [SerializeField]
      private statEntry entry;
      //for comparison of the mistake
      private int allPicMistakes;
      private int allDateMistakes;
      private int allNameMistakes;
      private int allColorMistakes;
      private int allPersonMistakes;
      private int allEmbMistakes;
      private bool doOnce=true;
      public string[] emblemTip;
      public string[] photoTip;
      public string[] personTip;
      public string[] nameTip;
      public string[] dateTip;
      public string[] colorTip;
      public List<mistakeCalcHelper> calcHelpers;
      public Text tipText;
      public Text scoreText;
      private newGameManager newGameManager;
      private xmlDatabaseManager xml;
      void Start()
           newGameManager = GameObject.FindObjectOfType<newGameManager>();
          xml = GameObject.FindObjectOfType<xmlDatabaseManager>();
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// Update is called once per frame
void Update()
    //hard coded score texts for different languages
    if (xml.db.language == 0)
        scoreText.text = "Score: " + newGameManager.wins;
    }else
    if (xml.db.language == 1)
        scoreText.text = "Pisteet: " + newGameManager.wins;
    else
    if (xml.db.language == 2)
        scoreText.text = "Poäng: " + newGameManager.wins;
    else
    if (xml.db.language == 3)
        scoreText.text = "cчeт: " + newGameManager.wins;
    //update the stats
    Allstats = calculateStuff(Allstats);
    if (GameObject.FindObjectOfType<newGameManager>().gameOver !=
      true)
        //reset everything to zero so nothing breaks is inefficent
        doOnce = false;
        calcHelpers[0].theNumber = 0;
        calcHelpers[1].theNumber = 0;
        calcHelpers[2].theNumber = 0;
        calcHelpers[3].theNumber = 0;
        calcHelpers[4].theNumber = 0;
        calcHelpers[5].theNumber = 0;
           used for giving tips on what the player should improve on
        for (int i = 0; i < Allstats.otherStats.Count - 1; i++)</pre>
            if (Allstats.otherStats[i].wasItCorrect == false &&
              Allstats.statEntries[i].colorWasChanged ==
              true&&Allstats.otherStats[i].colorWasSelected!=true)
                calcHelpers[0].theNumber++;
            if (Allstats.otherStats[i].wasItCorrect == false &&
              Allstats.statEntries[i].personWasChanged == true &&
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                       Allstats.otherStats[i].personWasSelected != true)
                         calcHelpers[1].theNumber++;
                     if (Allstats.otherStats[i].wasItCorrect == false &&
                       Allstats.statEntries[i].photoWasChanged == true &&
                       Allstats.otherStats[i].photoWasSelected != true)
                         calcHelpers[2].theNumber++;
                     if (Allstats.otherStats[i].wasItCorrect == false &&
                       Allstats.statEntries[i].emblemWasChanged == true &&
                       Allstats.otherStats[i].emblemWasSelected != true)
                         calcHelpers[3].theNumber++;
                     if (Allstats.otherStats[i].wasItCorrect == false &&
                       Allstats.statEntries[i].dateWasChanged == true &&
                       Allstats.otherStats[i].dateWasSelected != true)
                         calcHelpers[4].theNumber++;
                     if (Allstats.otherStats[i].wasItCorrect == false &&
                       Allstats.statEntries[i].nameWasChanged == true &&
                       Allstats.otherStats[i].nameWasSelected != true)
                         calcHelpers[5].theNumber++;
112
             //run for a while so it is sorted for sure
116
             for(int i = 0; i < 20; i++)
117
118
                 calcHelpers.Sort(sorter);
119
120
             calcHelpers.Sort(sorter);
124
             //gives the player a tip on what to improve on when the game is
             if (GameObject.FindObjectOfType<newGameManager>().gameOver ==
               true)
128
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if (calcHelpers[0].theNameOfTheStat == "color")

129

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                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 0)
                         tipText.text = colorTip[0];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 1)
                         tipText.text = colorTip[1];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 2)
                         tipText.text = colorTip[2];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 3)
                         tipText.text = colorTip[3];
147
                if (calcHelpers[0].theNameOfTheStat == "person")
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 0)
                        tipText.text = personTip[0];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 1)
                        tipText.text = personTip[1];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 2)
                        tipText.text = personTip[2];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 3)
                         tipText.text = personTip[3];
                if (calcHelpers[0].theNameOfTheStat == "photo")
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 0)
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171
                         tipText.text = photoTip[0];
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 1)
                         tipText.text = photoTip[1];
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 2)
                         tipText.text = photoTip[2];
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 3)
                         tipText.text = photoTip[3];
                     }
                 if (calcHelpers[0].theNameOfTheStat == "emblem")
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 0)
                         tipText.text = emblemTip[0];
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 1)
                         tipText.text = emblemTip[1];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 2)
                         tipText.text = emblemTip[2];
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 3)
                         tipText.text = emblemTip[3];
                 if (calcHelpers[0].theNameOfTheStat == "date")
                     if (GameObject.FindObjectOfType<xmlDatabaseManager>
                       ().db.language == 0)
                         tipText.text = dateTip[0];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
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                      ().db.language == 1)
212
                        tipText.text = dateTip[1];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 2)
                        tipText.text = dateTip[2];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 3)
220
                        tipText.text = dateTip[3];
                    }
                if (calcHelpers[0].theNameOfTheStat == "name")
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 0)
                        tipText.text = nameTip[0];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 1)
                        tipText.text = nameTip[1];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 2)
                        tipText.text = nameTip[2];
                    if (GameObject.FindObjectOfType<xmlDatabaseManager>
                      ().db.language == 3)
                        tipText.text = nameTip[3];
                }
        //sorts the list thing
        public static int sorter(mistakeCalcHelper _theOneThatWillBeAdded,
          mistakeCalcHelper _theOnebeingComparedTo)
            if (_theOneThatWillBeAdded.theNumber >
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_theOnebeingComparedTo.theNumber)

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252
                 return -1;
             else
             if (_theOneThatWillBeAdded.theNumber <</pre>
               _theOnebeingComparedTo.theNumber)
                 return 1;
262
             else return 0;
         //passport stats for the calculation
        public void saveStat(bool _date,bool _name, bool _emblem,bool
          _photo,bool _person,bool _color, bool _paper)
             entry = new statEntry();
             entry.dateWasChanged = _date;
             entry.nameWasChanged = _name;
270
             entry.emblemWasChanged = _emblem;
             entry.photoWasChanged = _photo;
             entry.personWasChanged = _person;
             entry.colorWasChanged = _color;
             entry.paperWasChanged = _paper;
             stats.Add(entry);
        //player decision and combo + player input saving
        public void saveOtherStats(int _combo,bool _wasItCorrect,bool
          _photo,bool _color,bool _emblem,bool _name,bool _date,bool
          _person,bool _paper)
282
             otherStat = new otherStats();
             otherStat.combo = _combo;
                 otherStat.wasItCorrect = _wasItCorrect;
             if (_photo != _wasItCorrect)
                 otherStat.photoWasSelected = false;
             if (_color != _wasItCorrect)
                 otherStat.colorWasSelected = false;
             if (_emblem != _wasItCorrect)
                 otherStat.emblemWasSelected = false;
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            if (_name != _wasItCorrect)
                 otherStat.nameWasSelected = false;
            if (_date != _wasItCorrect)
                 otherStat.dateWasSelected = false;
            if (_person != _wasItCorrect)
                 otherStat.personWasSelected = false;
            if (_paper != _wasItCorrect)
                 otherStat.paperWasSelected = false;
            otherStats.Add(otherStat);
            saveEveryStat();
        public void saveEveryStat()
            Allstats.statEntries = stats;
            Allstats.otherStats = otherStats;
        //has all the info in one class a bit pointless
        public allTheStats calculateStuff(allTheStats theStats)
            theStats.failiureCount=0;
            theStats.correctChoises = 0;
             foreach(otherStats i in theStats.otherStats)
                 if (i.wasItCorrect == true)
                     theStats.correctChoises=theStats.correctChoises+1;
           foreach (otherStats i in theStats.otherStats)
                 if (i.wasItCorrect == false)
                     theStats.failiureCount=theStats.failiureCount+1;
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theStats.percentageOfCorrectChoises = (theStats.correctChoises /

theStats.otherStats.Count)*100;

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            theStats.passportsHandled = theStats.otherStats.Count;
            return theStats;
349 [System.Serializable]
350 //passport stat class
351 public class statEntry
        public bool photoWasChanged;
        public bool colorWasChanged;
        public bool emblemWasChanged;
        public bool nameWasChanged;
        public bool dateWasChanged;
        public bool personWasChanged;
        public bool paperWasChanged;
    [System.Serializable]
363 //player info class
364 public class otherStats
        public int combo;
        public bool wasItCorrect;
        public bool photoWasSelected;
        public bool colorWasSelected;
        public bool emblemWasSelected;
        public bool nameWasSelected;
        public bool dateWasSelected;
        public bool personWasSelected;
        public bool paperWasSelected;
376 [System.Serializable]
    //combined stat class that has both player and passport stats from each
      attempt in a list
378 public class allTheStats
        public float correctChoises=0;
        public float percentageOfCorrectChoises=0;
        public float failiureCount=0;
        public float passportsHandled=0;
        public List<statEntry> statEntries;
        public List<otherStats> otherStats;
388 [System.Serializable]
389 public class mistakeCalcHelper
        public int theNumber=0;
        public string theNameOfTheStat;
```