LAMPIRAN

1. Source Code Data Jumlah Ujian Pertahun atau Permatapelajaran

```
public ActionResult ChartTahun(string Id, string idUjian, string
IdMakul1, string IdSiswa1, string IdGuruT, string Kelas)
    {
        // Id = "0c10a52d-e15e-4d16-b66a-bf8dee1cb550"; //siswa
        Id = User.Identity.GetUserId(); //Guru
        if (IdGuruT != null)
        {
            Id = IdGuruT;
        }

        int IdUjian = 0;
        int IdMak = 0;
        Int32.TryParse(IdMakul1, out IdMak);
        Int32.TryParse(idUjian, out IdUjian);
        string LabelsList, NilaiList, IdList, AuthenAjax;

        var auth1 = db.DataGuru.Where(s => s.Guru_Id ==
Id).Select(c => c.Guru_Id).Count();
        if (auth1 != 0)
        {
            var queryNilai = (from p in db.PesertaUjian.Where(z =>
z.Ujian.Createdby == Id)
                        select new TahunModel
                        {
                            Kelas = p.DataSiswa.Kelas,
                            IdSiswa = p.Siswa_Id,
                            IdMakul = p.Ujian.MP_Id,
                            IdUji = p.Ujian_Id,
                            IdGuru = p.Ujian.Createdby,
                            Tgl = p.Ujian.Mulai_Ujian.Value.Year,
                            Mkl = p.Ujian.MataPelajaran.Nama_MP,
                            Biji = (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                    select q.Nilai1).Sum() * 100 /
                                    (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                    select q.Nilai1).Count()
                        }).ToList();
            var Biji = from p in queryNilai.Where(a=>a.IdGuru == Id)
                    group p by p.Tgl into g
                    select new
                    {
                        Count = g.Select(a=>a.Biji).Count(),
```

47

```
                            Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
        var nil = Biji.Select(a => a.Count).ToList();
        var  tgl  =  queryNilai.Select(ac  =>  "\""  +  ac.Tgl  +
"\"").Distinct().ToList();
        var       id       =       queryNilai.Select(ac       =>
ac.IdMakul).Distinct().ToList();
        var mak = queryNilai.Select(ac => ac.Mkl).Count();
        if (IdUjian != 0)
        {
        Biji  =  from  p  in  queryNilai.Where(s  =>  s.IdUji  ==
IdUjian && s.IdGuru == Id)
                group p by p.Tgl into g
                select new
                {
                   Count = g.Select(a => a.Biji).Count(),
                   Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
        nil = Biji.Select(a => a.Count).ToList();
        tgl  =  queryNilai.Where(s  =>  s.IdUji  ==  IdUjian  &&
s.IdGuru == Id).Select(ac => "\"" + ac.Tgl + "\"").Distinct().ToList();
        id  =  queryNilai.Where(s  =>  s.IdUji  ==  IdUjian  &&
s.IdGuru == Id).Select(ac => ac.IdMakul).Distinct().ToList();
        mak  =  queryNilai.Where(s  =>  s.IdUji  ==  IdUjian  &&
s.IdGuru   ==   Id).Select(ac   =>   "\""   +   ac.Mkl   +
"\"").Distinct().Count();
        }
        else if (IdSiswa1 != null)
        {
        Biji  =  from  p  in  queryNilai.Where(a  =>  a.IdSiswa  ==
IdSiswa1)
                group p by p.Tgl into g
                select new
                {
                   Count = g.Select(a => a.Biji).Count(),
                   Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
        nil = Biji.Select(a => a.Count).ToList();
        tgl   =   queryNilai.Where(a   =>   a.IdSiswa   ==
IdSiswa1).Select(ac => "\"" + ac.Tgl + "\"").Distinct().ToList();
        id   =   queryNilai.Where(a   =>   a.IdSiswa   ==
IdSiswa1).Select(ac => ac.IdMakul).Distinct().ToList();
        mak   =   queryNilai.Where(a   =>   a.IdSiswa   ==
IdSiswa1).Select(ac => ac.Mkl).Count();
        }
```

```csharp
            else if (Kelas != null)
            {
              Biji = from p in queryNilai.Where(a => a.Kelas ==
        Kelas)
                    group p by p.Tgl into g
                    select new
                    {
                      Count = g.Select(a => a.Biji).Count(),
                      Nil = g.Sum(a => a.Biji) / g.Select(a =>
        a.Biji).Count(),
                    };
              nil = Biji.Select(a => a.Count).ToList();
              tgl    =    queryNilai.Where(a    =>    a.Kelas    ==
        Kelas).Select(ac => "\"" + ac.Tgl + "\"").Distinct().ToList();
              id = queryNilai.Where(a => a.Kelas == Kelas).Select(ac
        => ac.IdMakul).Distinct().ToList();
              mak    =    queryNilai.Where(a    =>    a.Kelas    ==
        Kelas).Select(ac => ac.Mkl).Count();
            }
            else
            {
              Biji = from p in queryNilai
                    group p by p.Tgl into g
                    select new
                    {
                      Count = g.Select(a => a.Biji).Count(),
                      Nil = g.Sum(a => a.Biji) / g.Select(a =>
        a.Biji).Count(),
                    };
              nil = Biji.Select(a => a.Count).ToList();
              tgl = queryNilai.Select(ac => "\"" + ac.Tgl +
        "\"").Distinct().ToList();
              id          =          queryNilai.Select(ac          =>
        ac.IdMakul).Distinct().ToList();
              mak = queryNilai.Select(ac => ac.Mkl).Count();
            }

            LabelsList = string.Join(",", tgl);
            IdList = string.Join(",", id);
            NilaiList = string.Join(",", nil);
            AuthenAjax = string.Join(",", mak);

            try
            {
              string tempAuthen = AuthenAjax;
              string tempLabel = LabelsList;
              string tempNilai = NilaiList;
              string tempId = IdList;
```

```
                    ViewBag.Authen_List = tempAuthen;
                    ViewBag.Nilai_List = tempNilai;
                    ViewBag.Lebel_List = tempLabel;
                    ViewBag.Id_List = tempId;
                    ViewBag.IdGuru = "\"" + Id + "\"";
                    ViewBag.Judul = "Rata - Rata Permatapelajaran";
                }
                catch (Exception)
                {
                    throw;
                }
            }
            else
            {

                var queryNilai = (from p in db.PesertaUjian.Where(z =>
        z.Siswa_Id == Id)
                            select new
                            {
                                IdUji = p.Ujian_Id,
                                IdMakul = p.Ujian.MP_Id,
                                IdSiswa = p.Siswa_Id,
                                Makul = p.Ujian.MataPelajaran.Nama_MP,
                                Biji = (from q in db.Nilai.Where(q =>
        q.Siswa_Id == Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                                        select q.Nilai1).Sum() * 100 /
                                        (from q in db.Nilai.Where(q =>
        q.Siswa_Id == Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                                         select q.Nilai_Id).Count()
                            }).ToList();
            var Biji = from p in queryNilai
                group p by p.IdMakul into g
                select new
                {
                    Count = g.Select(a => a.Biji).Count(),
                    Nil = g.Sum(a => a.Biji) / g.Select(a =>
        a.Biji).Count(),
                };
            var nil = Biji.Select(a => a.Count).ToList();
            var mak = queryNilai.Select(ac => "\"" + ac.Makul +
        "\"").Distinct().ToList();
            var id = queryNilai.Select(ac => "\"" + ac.IdSiswa +
        "\"").Distinct().ToList();

            if (IdUjian != 0)
            {
                Biji = from p in queryNilai.Where(v => v.IdSiswa == Id
        && v.IdUji == IdUjian)
```

```
                    group p by p.IdMakul into g
                    select new
                    {
                      Count = g.Select(a => a.Biji).Count(),
                      Nil = g.Sum(a => a.Biji) / g.Select(a =>
a.Biji).Count(),
                    };
            nil = Biji.Select(a => a.Count).ToList();
            mak = queryNilai.Where(v => v.IdSiswa == Id &&
v.IdUji == IdUjian).Select(ac => "\"" + ac.Makul +
"\"").Distinct().ToList();
            id = queryNilai.Where(v => v.IdSiswa == Id && v.IdUji
== IdUjian).Select(ac => "\"" + ac.IdSiswa +
"\"").Distinct().ToList();
            }
            else
            {
            Biji = from p in queryNilai
                    group p by p.IdMakul into g
                    select new
                    {
                      Count = g.Select(a => a.Biji).Count(),
                      Nil = g.Sum(a => a.Biji) / g.Select(a =>
a.Biji).Count(),
                    };
            nil = Biji.Select(a => a.Count).ToList();
            mak = queryNilai.Select(ac => "\"" + ac.Makul +
"\"").Distinct().ToList();
            id = queryNilai.Select(ac => "\"" + ac.IdSiswa +
"\"").Distinct().ToList();
            }

        LabelsList = string.Join(",", mak);
        IdList = string.Join(",", id);
        NilaiList = string.Join(",", nil);

        try
        {
          string tempLabel = LabelsList;
          string tempNilai = NilaiList;
          string tempId = IdList;
          ViewBag.Nilai_List = tempNilai;
          ViewBag.Lebel_List = tempLabel;
          ViewBag.Id_List = tempId;
          ViewBag.Authen_List = "0";
          string jdul = "Rata - Rata Permatapelajaran";
          ViewBag.Judul = "\"" + jdul + "\"";
        }
```

```
             catch (Exception)
             {
                throw;
             }
          }
          return PartialView();
     }
```

2. Source Code Data Rata – Rata Perkelas

```
     public ActionResult ChartKelas(string idMak, string idTGL, string
     Id, string IdGuruT, string idUjian, string NSiswa, string IdSiswa1)
          {

          Id = User.Identity.GetUserId(); //Guru
          int TGL = 0;
          int IDM = 0;
          int IDGuru = 0;
          int UjianId = 0;
          Int32.TryParse(idUjian, out UjianId);
          Int32.TryParse(idTGL, out TGL);
          Int32.TryParse(idMak, out IDM);
          Int32.TryParse(Id, out IDGuru);
          string KelasList, NilaiList;
          //normal
          var query = (from p in db.PesertaUjian.Where(c =>
     c.Ujian.Createdby == Id)
                    select new
                    {
                       IdSIswa = p.Siswa_Id,
                       UjianId = p.Ujian_Id,
                       MP_Id = p.Ujian.MP_Id,
                       TglUji = p.Ujian.Mulai_Ujian.Value.Year,
                       IdGuru = p.Ujian.Createdby,
                       Kelas = p.DataSiswa.Kelas,
                       Biji = (from q in db.Nilai.Where(q => q.Siswa_Id
     == p.Siswa_Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                            select q.Nilai1).Sum() * 100 /
                            (from q in db.Nilai.Where(q => q.Siswa_Id
     == p.Siswa_Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                            select q.Nilai1).Count()
                    }).ToList();
          var Biji = from p in query
                group p by p.Kelas into g
                select new
                {
                     Nil = g.Sum(a => a.Biji) / g.Select(a =>
     a.Biji).Count(),
```

```
            };
        var Kelas = (from a in query
                select "\"" + a.Kelas + "\"").Distinct().ToList();
        var NilaiSiswa = Biji.Select(a => a.Nil).ToList();
        if (TGL != 0)
        {
            Biji = from p in query.Where(a => a.TglUji == TGL)
                group p by p.Kelas into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            Kelas = query.Where(a=>a.TglUji == TGL).Select(a =>
"\"" + a.Kelas + "\"").Distinct().ToList();
            NilaiSiswa = Biji.Select(a => a.Nil).ToList();
        }
        else if (UjianId != 0)
        {
            Kelas = query.Where(a => a.UjianId == UjianId).Select(c
=> "\"" + c.Kelas + "\"").Distinct().ToList();
            NilaiSiswa = Biji.Select(a => a.Nil).ToList();
        }
        else if (IdSiswa1 != null)
        {
            Biji = from p in query.Where(a => a.IdSIswa == IdSiswa1)
                group p by p.Kelas into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            Kelas   =   query.Where(a   =>   a.IdSIswa   ==
IdSiswa1).Select(c => "\"" + c.Kelas + "\"").Distinct().ToList();
            NilaiSiswa = Biji.Select(a => a.Nil).ToList();
        }
        else
        {
            Biji = from p in query.Where(a => a.IdGuru == Id)
                group p by p.Kelas into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            Kelas = query.Where(a => a.IdGuru == Id).Select(c =>
"\"" + c.Kelas + "\"").Distinct().ToList();
            NilaiSiswa = Biji.Select(a => a.Nil).ToList();
```

```
            }
            KelasList = string.Join(",", Kelas);
            NilaiList = string.Join(",", NilaiSiswa);
            //IdList = string.Join(",", IdGuru);

            try
            {
              string tempNama = KelasList;
              string tempNilai = NilaiList;
              //string tempId = IdList;
              ViewBag.Nama_List = tempNama.Trim();
              ViewBag.Nilai_List = tempNilai.Trim();
              //ViewBag.Id_List = tempId.Trim();
            }
            catch (Exception)
            {
              throw;
            }
            return PartialView();
    }
```

3. Source Code Data Rata – Rata Perujian User Guru

```
      public ActionResult ChartEventUjian(string idMak, string idTGL,
      string Id, string IdGuruT, string Kelas, string IdSiswa1)
        {
        // Id = "0c10a52d-e15e-4d16-b66a-bf8dee1cb550"; //siswa
        Id = User.Identity.GetUserId();
        if (IdGuruT != null)
        {
           Id = IdGuruT;
        }
        int TGL = 0;
        int IDM = 0;
        int IDGuru = 0;
        Int32.TryParse(idTGL, out TGL);
        Int32.TryParse(idMak, out IDM);
        Int32.TryParse(Id, out IDGuru);
        string MakulList, NilaiList, IdList, tglUjianList, IDMList;

        var queryNilai = (from p in db.Ujian.Where(a => a.Createdby
      == Id)
                   select new
                   {
                     Nama_MP                            =
      p.DataGuru.MataPelajaran.Nama_MP,
                     Nama_Ujian = p.Nama_Ujian,
                     MP_Id = p.MP_Id,
```

54

```
                              Id_Guru = p.Createdby,
                              IdUjian = p.Ujian_Id,
                              TglUji = p.Mulai_Ujian,
                              Biji  =  (from  q  in  db.Nilai.Where(q  =>
q.EventUjian.Ujian_Id == p.Ujian_Id)
                                  select q.Nilai1).Sum() * 100 /
                              (from    a    in    db.Nilai.Where(q    =>
q.EventUjian.Ujian_Id == p.Ujian_Id)
                                  select a.EventUjian.Ujian_Id).Count()
                          }).OrderBy(a => a.TglUji).ToList();
        var queryKelas = (from p in db.PesertaUjian.Where(k =>
k.DataSiswa.Kelas == Kelas && k.Ujian.Createdby == Id)
                      select new
                      {
                      Nama_MP                                    =
p.Ujian.DataGuru.MataPelajaran.Nama_MP,
                          Nama_Ujian = p.Ujian.Nama_Ujian,
                          MP_Id = p.Ujian.MP_Id,
                          Id_Guru = p.Ujian.Createdby,
                          IdUjian = p.Ujian.Ujian_Id,
                          TglUji = p.Ujian.Mulai_Ujian,
                          Biji  =  (from  q  in  db.Nilai.Where(q  =>
q.EventUjian.Ujian_Id == p.Ujian_Id)
                              select q.Nilai1).Sum() * 100 /
                              (from    a    in    db.Nilai.Where(q    =>
q.EventUjian.Ujian_Id == p.Ujian_Id)
                              select a.EventUjian.Ujian_Id).Count()
                          }).OrderBy(a=>a.TglUji).Distinct().ToList();
        var querySiswa = (from p in db.PesertaUjian.Where(k =>
k.Ujian.Createdby == Id)
                      select new
                      {
                        Kelas = p.DataSiswa.Kelas,
                        SiswaID = p.Siswa_Id,
                        Nama_MP                                    =
p.Ujian.DataGuru.MataPelajaran.Nama_MP,
                        Nama_Ujian = p.Ujian.Nama_Ujian,
                        MP_Id = p.Ujian.MP_Id,
                        Id_Guru = p.Ujian.Createdby,
                        IdUjian = p.Ujian.Ujian_Id,
                        TglUji = p.Ujian.Mulai_Ujian,
                        Biji  =  (from  q  in  db.Nilai.Where(q  =>
q.Siswa_Id  ==  p.Siswa_Id  &&  q.EventUjian.Ujian_Id  ==
p.Ujian_Id)
                              select q.Nilai1).Sum() * 100 /
                              (from   q   in   db.Nilai.Where(q   =>
q.Siswa_Id  ==  p.Siswa_Id  &&  q.EventUjian.Ujian_Id  ==
p.Ujian_Id)
```

```
                            select q.Nilai1).Count()
                    }).OrderBy(a => a.TglUji).ToList();
        var Biji = from p in querySiswa
            group p by p.IdUjian into g
            select new
            {
                Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
            };
        var nil = Biji.Select(a => a.Nil).ToList();
        var tgl = querySiswa.Select(ac => "\"" + ac.Nama_Ujian +
"\"").Distinct().ToList();
        var        idUjian       =       querySiswa.Select(ac        =>
ac.IdUjian).Distinct().ToList();
        var mak = querySiswa.Select(zx => "\"" + zx.Nama_MP +
"\"").Distinct().ToList();
        var  IDm  =  querySiswa.Where(ab   =>   ab.Id_Guru   ==
Id).Select(ax => ax.MP_Id).Distinct().ToList();
        var        IdGuru       =       querySiswa.Select(ad        =>
ad.Id_Guru).Distinct().ToList();

        if (TGL != 0)
        {
            Biji             =            from            p            in
querySiswa.Where(a=>a.TglUji.Value.Year == TGL  &&  a.MP_Id
== IDM)
                group p by p.IdUjian into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            nil = Biji.Select(a => a.Nil).ToList();
            tgl = queryNilai.Where(cc  =>  cc.TglUji.Value.Year ==
TGL && cc.MP_Id == IDM).Select(ac => "\"" + ac.Nama_Ujian +
"\"").ToList();
            idUjian = queryNilai.Where(cc => cc.TglUji.Value.Year
== TGL && cc.MP_Id == IDM).Select(ac => ac.IdUjian).ToList();
            mak    =    queryNilai.Where(zz    =>    zz.MP_Id    ==
IDM).Select(zx => "\"" + zx.Nama_MP + "\"").ToList();
            IDm = queryNilai.Where(cc => cc.TglUji.Value.Year ==
TGL && cc.MP_Id == IDM).Select(ax => ax.MP_Id).ToList();
            IdGuru = queryNilai.Where(cc => cc.TglUji.Value.Year
== TGL && cc.MP_Id == IDM).Select(ad => ad.Id_Guru).ToList();
        }
        else if (Kelas != null)
        {
```

```
            Biji = from p in querySiswa.Where(a => a.Kelas == Kelas
)
                group p by p.IdUjian into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            nil = Biji.Select(a => a.Nil).ToList();
            tgl = queryKelas.Select(ac => "\"" + ac.Nama_Ujian +
"\"").ToList();
            idUjian = queryKelas.Select(c => c.IdUjian).ToList();
            mak = queryKelas.Select(zx => "\"" + zx.Nama_MP +
"\"").ToList();
            IDm = queryKelas.Select(ax => ax.MP_Id).ToList();
            IdGuru = queryKelas.Select(ad => "\"" + ad.Id_Guru +
"\"").ToList();
        }
        else if (IdSiswa1 != null)
        {
            Biji = from p in querySiswa.Where(a => a.SiswaID ==
IdSiswa1)
                group p by p.IdUjian into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
                };
            nil = Biji.Select(a => a.Nil).ToList();
            tgl   =   querySiswa.Where(c   =>   c.SiswaID   ==
IdSiswa1).Select(ac => "\"" + ac.Nama_Ujian + "\"").ToList();
            idUjian   =   querySiswa.Where(c   =>   c.SiswaID   ==
IdSiswa1).Select(c => c.IdUjian).ToList();
            mak   =   querySiswa.Where(c   =>   c.SiswaID   ==
IdSiswa1).Select(zx => "\"" + zx.Nama_MP + "\"").ToList();
            IDm   =   querySiswa.Where(c   =>   c.SiswaID   ==
IdSiswa1).Select(ax => ax.MP_Id).ToList();
            IdGuru = querySiswa.Select(ad => "\"" + ad.Id_Guru +
"\"").ToList();
        }
        else
        {
            Biji = from p in querySiswa.Where(a => a.Id_Guru == Id)
                group p by p.IdUjian into g
                select new
                {
                    Nil  =  g.Sum(a  =>  a.Biji)  /  g.Select(a  =>
a.Biji).Count(),
```

```
            };
        nil = Biji.Select(a => a.Nil).ToList();
        tgl = querySiswa.Where(s => s.Id_Guru == Id).Select(ac
=> "\"" + ac.Nama_Ujian + "\"").Distinct().ToList();
        idUjian = querySiswa.Where(s => s.Id_Guru ==
Id).Select(ac => ac.IdUjian).Distinct().ToList();
        mak = querySiswa.Where(s => s.Id_Guru == Id).Select(zx
=> "\"" + zx.Nama_MP + "\"").Distinct().ToList();
        }
    MakulList = string.Join(",", mak);
    IdList = string.Join(",", idUjian);
    NilaiList = string.Join(",", nil);
    tglUjianList = string.Join(",", tgl);
    IDMList = string.Join(",", IDm);

    try
    {
        string tempMakul = MakulList;
        string tempNilai = NilaiList;
        string tempId = IdList;
        string tempTglUjian = tglUjianList;
        string tempIDM = IDMList;
        ViewBag.Nilai_List = tempNilai;
        ViewBag.Makul_List = tempMakul;
        ViewBag.Id_List = tempId;
        ViewBag.TglUjian_List = tempTglUjian;
        ViewBag.IDMakul = tempIDM;
        ViewBag.IdGuruT = IDGuru;
    }
    catch (Exception)
    {
        throw;
    }
    return PartialView();
}
```

4. Source Code Data Rata – Rata Perujian User Siswa

```
public ActionResult ChartSiswaEvenUjian(string Id, string NMakul,
string IdSiswa)
    {
        Id = User.Identity.GetUserId(); //siswa
                        //  Id  =  "0c10a52d-e15e-4d16-b66a-
bf8dee1cb550"; //siswa
        if (Id == "")
        {
            Id = IdSiswa;
        }
```

```
            string MakulList, NilaiList, IdList, tglUjianList;

        var queryNilai = (from p in db.PesertaUjian
                select new
                {
                    IdMakul = p.Ujian.MP_Id,
                    IdSiswa = p.Siswa_Id,
                    IdUjian = p.Ujian_Id,
                    NamaMakul                                =
p.Ujian.DataGuru.MataPelajaran.Nama_MP,
                    TglUji = p.Ujian.Nama_Ujian,
                    Biji   =  (from  q  in  db.Nilai.Where(q  =>
q.Siswa_Id  ==  p.Siswa_Id  &&  q.EventUjian.Ujian_Id  ==
p.Ujian_Id)
                        select q.Nilai1).Sum() * 100 /
                        (from  q  in  db.Nilai.Where(q  =>
q.Siswa_Id  ==  p.Siswa_Id  &&  q.EventUjian.Ujian_Id  ==
p.Ujian_Id)
                        select q.Nilai1).Count()
                }).ToList();

        var nil = queryNilai.Select(a => a.Biji).ToList();
        var tgl  =  queryNilai.Select(ac  =>  "\""  +  ac.TglUji  +
"\"").ToList();
        var idEUjian = queryNilai.Select(ac => ac.IdUjian).ToList();
        var   mak   =   db.MataPelajaran.Select(zx   =>   "\""   +
zx.Nama_MP + "\"").ToList();

        if (NMakul != null)
        {
            nil = queryNilai.Where(cc  =>  cc.IdSiswa == Id &&
cc.NamaMakul == NMakul).Select(a => a.Biji).ToList();
            tgl  =  queryNilai.Where(cc  =>  cc.IdSiswa  ==  Id  &&
cc.NamaMakul  ==  NMakul).Select(ac  =>  "\""  +  ac.TglUji  +
"\"").ToList();
            idEUjian = queryNilai.Where(cc => cc.IdSiswa == Id &&
cc.NamaMakul == NMakul).Select(ac => ac.IdUjian).ToList();
            mak  =  db.MataPelajaran.Where(zz  =>  zz.Nama_MP  ==
NMakul).Select(zx => "\"" + zx.Nama_MP + "\"").ToList();
        }
        else
        {
            nil = queryNilai.Where(s => s.IdSiswa == Id).Select(a =>
a.Biji).ToList();
            tgl = queryNilai.Where(s => s.IdSiswa == Id).Select(ac =>
"\"" + ac.TglUji + "\"").ToList();
            idEUjian   =   queryNilai.Where(s   =>   s.IdSiswa   ==
Id).Select(ac => ac.IdUjian).ToList();
```

```
            }
            MakulList = string.Join(",", mak);
            IdList = string.Join(",", idEUjian);
            NilaiList = string.Join(",", nil);
            tglUjianList = string.Join(",", tgl);

            try
            {
                string tempMakul = MakulList;
                string tempNilai = NilaiList;
                string tempId = IdList;
                string tempTglUjian = tglUjianList;
                ViewBag.Nilai_List = tempNilai;
                ViewBag.Makul_List = tempMakul;
                ViewBag.Id_List = tempId;
                ViewBag.TglUjian_List = tempTglUjian;
                ViewBag.IdSiswa = "\"" + Id + "\"";
            }
            catch (Exception)
            {
                throw;
            }
            return PartialView();
    }
```

5. Source Code Data Nilai Siswa

```
public ActionResult ChartSiswa(string idUjian, string Id, string
idTGL, string idMak, string IdGuruT, string Kelas)
    {
        //Id = "0c10a52d-e15e-4d16-b66a-bf8dee1cb550"; //siswa
        Id = User.Identity.GetUserId();
        if (IdGuruT != null)
        {
            Id = IdGuruT;
        }
        int IdUjian = 0;
        int Tahun = 0;
        int IdMak = 0;
        Int32.TryParse(idTGL, out Tahun);
        Int32.TryParse(idMak, out IdMak);
        Int32.TryParse(idUjian, out IdUjian);
        string NamaList, NilaiList, IdList;
        var query = (from p in db.PesertaUjian.Where(a =>
a.Ujian.Createdby == Id)
                    select new
                    {
                        Kelas = p.DataSiswa.Kelas,
```

```
                        idG = p.Ujian.Createdby,
                        IdMakul = p.Ujian.MataPelajaran.MP_Id,
                        IdSiswa = p.Siswa_Id,
                        Jeneng = p.DataSiswa.Nama_Siswa,
                        IdUji = p.Ujian_Id,
                        Tahun = p.Ujian.Mulai_Ujian.Value.Year,
                        Makul = p.Ujian.MataPelajaran.Nama_MP,
                        Biji = (from q in db.Nilai.Where(q => q.Siswa_Id
== p.Siswa_Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                            select q.Nilai1).Sum() * 100 /
                            (from q in db.Nilai.Where(q => q.Siswa_Id
== p.Siswa_Id && q.EventUjian.Ujian_Id == p.Ujian_Id)
                            select q.Nilai1).Count()
                    }).ToList();
        var NamaSiswa = (from a in query
                    select "\"" + a.Jeneng + "\"").ToList();
        var NilaiSiswa = (from b in query
                     select b.Biji).ToList();
        var IdSiswa = (from b in query
                    select "\"" + b.IdSiswa + "\"").ToList();

        if (idTGL != null)
        {
            NamaSiswa = (from a in query.Where(ac => ac.Tahun ==
Tahun && ac.IdMakul == IdMak)
                     select "\"" + a.Jeneng + "\"").ToList();
            NilaiSiswa = (from b in query.Where(ac => ac.Tahun ==
Tahun && ac.IdMakul == IdMak)
                      select b.Biji).ToList();
            IdSiswa = (from b in query.Where(ac => ac.Tahun ==
Tahun && ac.IdMakul == IdMak)
                     select "\"" + b.IdSiswa + "\"").ToList();
        }
        else if (IdUjian != 0)
        {
            NamaSiswa = (from a in query.Where(ac => ac.IdUji ==
IdUjian && ac.idG == Id)
                     select "\"" + a.Jeneng + "\"").ToList();
            NilaiSiswa = (from b in query.Where(bc => bc.IdUji ==
IdUjian && bc.idG == Id)
                      select b.Biji).ToList();
            IdSiswa = (from b in query.Where(bc => bc.IdUji ==
IdUjian && bc.idG == Id)
                     select "\"" + b.IdSiswa + "\"").ToList();
        }
        else if (Kelas != null)
        {
```

```
                NamaSiswa = (from a in query.Where(ac => ac.Kelas ==
    Kelas)
                    select "\"" + a.Jeneng + "\"").ToList();
                NilaiSiswa = (from b in query.Where(bc => bc.Kelas ==
    Kelas)
                    select b.Biji).ToList();
                IdSiswa = (from b in query.Where(bc => bc.Kelas ==
    Kelas)
                    select "\"" + b.IdSiswa + "\"").ToList();
            }
            else
            {
                NamaSiswa = (from a in query.Where(ax => ax.idG == Id)
                    select "\"" + a.Jeneng + "\"").ToList();
                NilaiSiswa = (from b in query.Where(ax => ax.idG == Id)
                    select b.Biji).ToList();
                IdSiswa = (from b in query.Where(ax => ax.idG == Id)
                    select "\"" + b.IdSiswa + "\"").ToList();
            }
            NamaList = string.Join(",", NamaSiswa);
            NilaiList = string.Join(",", NilaiSiswa);
            IdList = string.Join(",", IdSiswa);

            try
            {
                string tempNama = NamaList;
                string tempNilai = NilaiList;
                string tempId = IdList;
                ViewBag.Nama_List = tempNama.Trim();
                ViewBag.Nilai_List = tempNilai.Trim();
                ViewBag.Id_List = tempId.Trim();
            }
            catch (Exception)
            {
                throw;
            }
            return PartialView();
    }
```

6. Source Code Data Nilai Siswa Dalam *Grid*

```
public ActionResult Data(string Id, string IdUjian, string IdSiswa,
string NMakul, string idTGL, string idMak, string NSiswa, string
IdSiswa1, string IdGuruT, string Kelas)
    {
        // Id = "0c10a52d-e15e-4d16-b66a-bf8dee1cb550"; //siswa
        Id = User.Identity.GetUserId();
        if (Id == "")
```

```
            {
               Id = IdSiswa;
            }
            else if (IdGuruT != null)
            {
               Id = IdGuruT;
            }
            int IdUji = 0;
            Int32.TryParse(IdUjian, out IdUji);
            var querySiswa = (from p in db.PesertaUjian
                        select new NilaiModel
                        {
                           Kelas = p.DataSiswa.Kelas,
                           IdUjian = p.Ujian_Id,
                           IdSiswa = p.Siswa_Id,
                           Coloum1 = p.Ujian.Nama_Ujian,
                           Coloum4 = p.Ujian.MataPelajaran.Nama_MP,
                           Coloum3 = p.Ujian.Mulai_Ujian,
                           Coloum2 = (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                 select q.Nilai1).Sum() * 100 /
                                 (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                    select q.Nilai1).Count()
                        }).ToList();
         var queryGuru = (from p in db.PesertaUjian.Where(c =>
c.Ujian.Createdby == Id)
                        select new NilaiModel
                        {
                           Kelas = p.DataSiswa.Kelas,
                           IdUjian = p.Ujian_Id,
                           IdSiswa = p.Siswa_Id,
                           IdMakul = p.Ujian.MP_Id,
                           Tahun = p.Ujian.Mulai_Ujian.Value.Year,
                           IdGuru = p.Ujian.Createdby,
                           Coloum1 = p.Ujian.Nama_Ujian,
                           Coloum4 = p.DataSiswa.Nama_Siswa,
                           Coloum3 = p.Ujian.Mulai_Ujian,
                           Coloum2 = (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                 select q.Nilai1).Sum() * 100 /
                                 (from q in db.Nilai.Where(q =>
q.Siswa_Id == p.Siswa_Id && q.EventUjian.Ujian_Id ==
p.Ujian_Id)
                                    select q.Nilai1).Count()
```

```
                        }).OrderByDescending(a              =>
a.Coloum2).ToList();
        var querydata = querySiswa.ToList();
        var auth1  =  db.DataGuru.Where(s  =>  s.Guru_Id  ==
Id).Select(c => c.Guru_Id).Count();
        if (auth1 != 0)
        {
            querydata  =  queryGuru.Where(x  =>  x.IdGuru  ==
Id).ToList();
            int Tahun = 0;
            int IdMak = 0;
            Int32.TryParse(idTGL, out Tahun);
            Int32.TryParse(idMak, out IdMak);
            if (idTGL != null)
            {
                querydata = queryGuru.Where(x => x.Tahun == Tahun
&& x.IdMakul == IdMak).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2      =      gg.Coloum2.HasValue      ?
gg.Coloum2.Value : 0
                }).ToList();
            }
            else if (IdUjian != null)
            {
                querydata  =  queryGuru.Where(x  =>  x.IdUjian  ==
IdUji).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2      =      gg.Coloum2.HasValue      ?
gg.Coloum2.Value : 0
                }).ToList();
            }
            else if (NSiswa != null)
            {
                querydata  =  queryGuru.Where(x  =>  x.Coloum4  ==
NSiswa && x.IdSiswa == IdSiswa1).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
```

```
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2       =       gg.Coloum2.HasValue      ?
gg.Coloum2.Value : 0
             }).ToList();
          }
          else if (Kelas != null)
          {
             querydata  =  queryGuru.Where(x  =>  x.Kelas  ==
Kelas).Select(gg => new NilaiModel
             {
                IdUjian = gg.IdUjian,
                IdSiswa = gg.IdSiswa,
                Coloum1 = gg.Coloum1,
                Coloum4 = gg.Coloum4,
                Coloum3 = gg.Coloum3,
                Coloum2       =       gg.Coloum2.HasValue      ?
gg.Coloum2.Value : 0
             }).ToList();
          }
          else
          {
             querydata  =  queryGuru.Where(x  =>  x.IdGuru  ==
Id).Select(gg => new NilaiModel
             {
                IdUjian = gg.IdUjian,
                IdSiswa = gg.IdSiswa,
                Coloum1 = gg.Coloum1,
                Coloum4 = gg.Coloum4,
                Coloum3 = gg.Coloum3,
                Coloum2       =       gg.Coloum2.HasValue      ?
gg.Coloum2.Value : 0
             }).ToList();
          }
       }
       else
       {
          querydata  =  querySiswa.Where(x  =>  x.IdSiswa  ==
Id).Select(gg => new NilaiModel
          {
             IdUjian = gg.IdUjian,
             IdSiswa = gg.IdSiswa,
             Coloum1 = gg.Coloum1,
             Coloum4 = gg.Coloum4,
             Coloum3 = gg.Coloum3,
             Coloum2 = gg.Coloum2.HasValue ? gg.Coloum2.Value
: 0
```

```csharp
            }).ToList();
            if (NMakul != null)
            {
                querydata = querySiswa.Where(x => x.IdSiswa == Id
&& x.Coloum4 == NMakul).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2    =    gg.Coloum2.HasValue    ?
gg.Coloum2.Value : 0
                }).ToList();
            }
            else if (IdUjian != null)
            {
                querydata = querySiswa.Where(x => x.IdSiswa == Id
&& x.IdUjian == IdUji).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2    =    gg.Coloum2.HasValue    ?
gg.Coloum2.Value : 0
                }).ToList();
            }
            else
            {
                querydata = querySiswa.Where(x => x.IdSiswa ==
Id).Select(gg => new NilaiModel
                {
                    IdUjian = gg.IdUjian,
                    IdSiswa = gg.IdSiswa,
                    Coloum1 = gg.Coloum1,
                    Coloum4 = gg.Coloum4,
                    Coloum3 = gg.Coloum3,
                    Coloum2    =    gg.Coloum2.HasValue    ?
gg.Coloum2.Value : 0
                }).ToList();
            }
        }
    return PartialView(querydata);
}
```

7. Source Code Data *Review* Ujian

```
public ActionResult Review(string idS, string idU)
    {
        int UjianId = 0;
        //idS = "0c10a52d-e15e-4d16-b66a-bf8dee1cb550";
        Int32.TryParse(idU, out UjianId);
        var review = (from p in db.Nilai.Where(g =>
g.EventUjian.Ujian_Id == UjianId && g.Siswa_Id == idS)
                select new ReviewModel
                {
                    Nama = p.DataSiswa.Nama_Siswa,
                    Ujian = p.EventUjian.Ujian.Nama_Ujian,
                    No = p.EventUjian.No,
                    Soal = p.EventUjian.Soal.Pertanyaan,
                    A = p.EventUjian.Soal.A,
                    B = p.EventUjian.Soal.B,
                    C = p.EventUjian.Soal.C,
                    D = p.EventUjian.Soal.D,
                    E = p.EventUjian.Soal.E,
                    JSiswa = p.Jawaban_Siswa,
                    Jawaban = p.EventUjian.Soal.Jawaban
                }).OrderBy(c => c.No).ToList();
        var count = review.Count();
        var Nama = review.Select(a => a.Nama).Distinct().ToList();
        var Ujian = review.Select(a => a.Ujian).Distinct().ToList();
        string NamaList = string.Join(",", Nama);
        string UjianList = string.Join(",", Ujian);
        try
        {
            string tempUjian = UjianList;
            string tempNama = NamaList;
            ViewBag.Nama = tempNama;
            ViewBag.Ujian = tempUjian;
            ViewBag.Count = count;
        }
        catch (Exception)
        {
            throw;
        }
        return View(review);
    }
```