

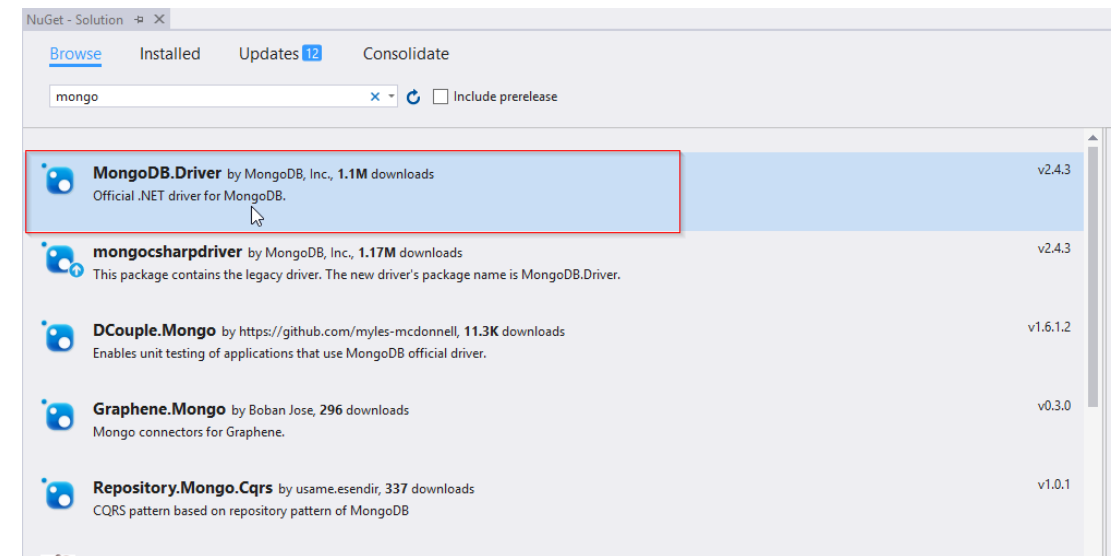
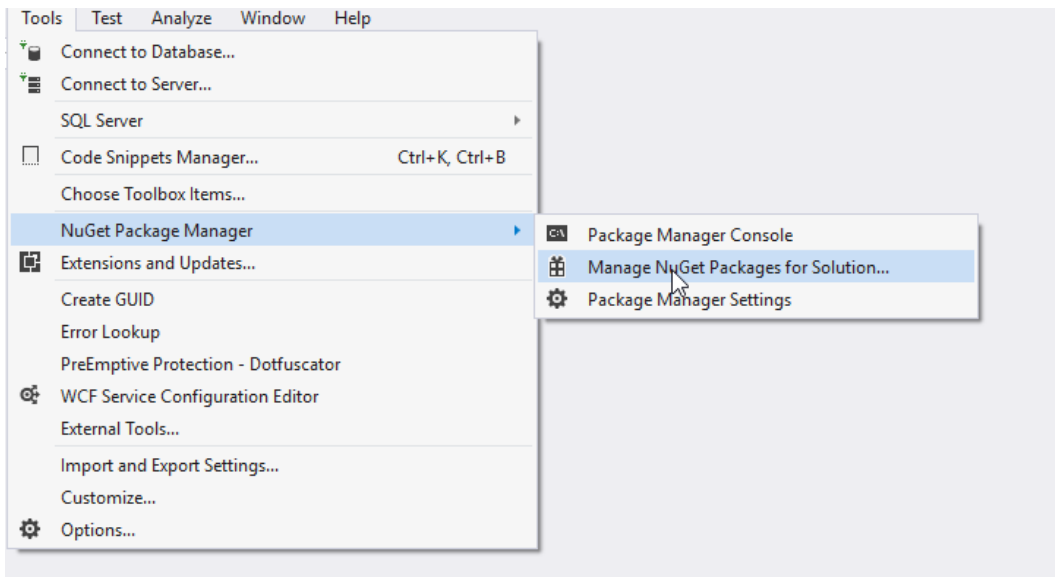
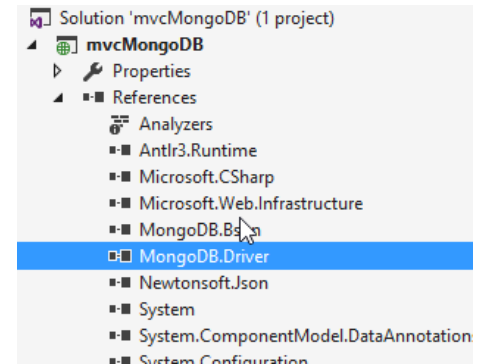
# Veb orijentisane tehnologije i sistemi

# ASP.NET MVC 5 + MongoDB



# Primer Aplikacije

- Instalacija MongoDB drajvera preko NuGet package manager-a



# Primer Aplikacije

- Konekcija sa MongoDB i Modelska klasa

```
NoteDB.cs  Note.cs  X
mvcMongoDB
1  using MongoDB.Bson;
2  using MongoDB.Bson.Serialization.Attributes;
3  using System;
4  using System.ComponentModel.DataAnnotations;
5
6  namespace mvcMongoDB.Models
7  {
8      5 references
9      public class Note
10     {
11         [BsonRepresentation(BsonType.ObjectId)]
12         0 references
13         public String Id { get; set; }
14
15         [Required]
16         1 reference
17         public String NoteTitle { get; set; }
18
19         [Required]
20         0 references
21         public String NoteDescription { get; set; }
22     }
23 }
```

```
Web.config  NoteDB.cs  X
mvcMongoDB
1  using MongoDB.Driver;
2  using System;
3
4  namespace mvcMongoDB.Models
5  {
6      3 references
7      public class NoteDB
8      {
9          //Connection String
10         //=====
11         public String connectionString = "mongodb://localhost";
12         public String DataBaseName = "NotesDB";
13         //=====
14
15         public MongoDBDatabase Database;
16
17         1 reference
18         public NoteDB ()
19         {
20             var client = new MongoClient(connectionString);
21             var server = client.GetServer();
22
23             Database = server.GetDatabase(DataBaseName);
24         }
25
26         6 references
27         public MongoClient<Note> Notes
28         {
29             get
30             {
31                 var Notes = Database.GetCollection<Note>("Notes");
32                 return Notes;
33             }
34         }
35     }
36 }
```



# Primer Aplikacije

- Kontroler sa akcijama za prikaz strana i obradu CRUD operacija

```
namespace MvcMongoDB.Controllers
{
    0 references
    public class NoteController : Controller
    {
        private readonly NoteDB Context = new NoteDB();

        0 references
        public ActionResult Index()
        {
            var Notes = Context.Notes.FindAll().SetSortOrder(SortBy<Note>.Ascending(r => r.NoteTitle));
            return View(Notes);
        }

        0 references
        public ActionResult Create()
        {
            return View();
        }

        [HttpPost]
        0 references
        public ActionResult Create(Note _Note)
        {
            if (ModelState.IsValid)
            {
                Context.Notes.Insert(_Note);
                return RedirectToAction("Index");
            }
            return View();
        }

        0 references
        public ActionResult Edit(string Id )
        {
            var Note = Context.Notes.FindOneById(new ObjectId(Id));
            return View(Note);
        }
    }
}
```

```
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[HttpGet]
0 references
public ActionResult Delete(string Id)
{
    var note = Context.Notes.FindOneById(new ObjectId(Id));
    return View(note);
}

[HttpPost, ActionName("Delete")]
0 references
public ActionResult DeleteConfirmed(string Id)
{
    var note = Context.Notes.Remove(Query.EQ("_id", new ObjectId(Id)));
    return RedirectToAction("Index");
}

0 references
public ActionResult About()
{
    ViewBag.Message = "Your application description page.";

    return View();
}

0 references
public ActionResult Contact()
{
    ViewBag.Message = "Your contact page.";

    return View();
}
}
```



# Primer Aplikacije

- Index stranica

```
Index.cshtml
1 @model IEnumerable<mvcMongoDB.Models.Note>
2
3 @{
4     ViewBag.Title = "Index";
5 }
6
7 <h2>Notes</h2>
8
9 <p>
10     @Html.ActionLink("Create New", "Create")
11 </p>
12 <table class="table">
13 <tr>
14     <th>
15         @Html.DisplayNameFor(model => model.ObjectId)
16     </th>
17     <th>
18         @Html.DisplayNameFor(model => model.NoteTitle)
19     </th>
20     <th>
21         @Html.DisplayNameFor(model => model.NoteDescription)
22     </th>
23 </tr>
24 <tr>
25 <td>
26     @Html.DisplayFor(modelItem => item.ObjectId)
27 </td>
28 <td>
29     @Html.DisplayFor(modelItem => item.NoteTitle)
30 </td>
31 <td>
32     @Html.DisplayFor(modelItem => item.NoteDescription)
33 </td>
34 <td>
35     @Html.ActionLink("Edit", "Edit", new { id=item.Id }) |
36     @Html.ActionLink("Delete", "Delete", new { id = item.Id })
37 </td>
38 </tr>
39 </table>
```

## Delete stranica

```
Delete.cshtml
1 @model mvcMongoDB.Models.Note
2
3 @{
4     ViewBag.Title = "Delete";
5 }
6
7 <h2>Delete</h2>
8
9 <h3>Are you sure you want to delete this Note?</h3>
10 <div>
11     <hr />
12     <dl class="dl-horizontal">
13         <dt>
14             @Html.DisplayNameFor(model => model.NoteTitle)
15         </dt>
16         <dd>
17             @Html.DisplayFor(model => model.NoteTitle)
18         </dd>
19         <dt>
20             @Html.DisplayNameFor(model => model.NoteDescription)
21         </dt>
22         <dd>
23             @Html.DisplayFor(model => model.NoteDescription)
24         </dd>
25     </dl>
26     <div class="form-actions no-color">
27         <input type="submit" value="Delete" class="btn btn-default" />
28         @Html.ActionLink("Back to List", "Index")
29     </div>
30 </div>
```



# Primer Aplikacije

- Create stranica

```
Edit.cshtml Create.cshtml x
1 @model MvcMongoDB.Models.Note
2
3 @{
4     ViewBag.Title = "Create";
5 }
6
7 <h2>Create</h2>
8
9
10 @using (Html.BeginForm())
11 {
12
13     <div class="form-horizontal">
14         <hr />
15         @Html.ValidationSummary(true)
16
17
18         <div class="form-group">
19             @Html.LabelFor(model => model.NoteTitle, new { @class = "control-label col-md-2" })
20             <div class="col-md-10">
21                 @Html.EditorFor(model => model.NoteTitle)
22                 @Html.ValidationMessageFor(model => model.NoteTitle)
23             </div>
24         </div>
25
26         <div class="form-group">
27             @Html.LabelFor(model => model.NoteDescription, new { @class = "control-label col-md-2" })
28             <div class="col-md-10">
29                 @Html.TextAreaFor(model => model.NoteDescription, new { cols = 35, @rows = 3 })
30                 @Html.ValidationMessageFor(model => model.NoteDescription)
31             </div>
32         </div>
33
34         <div class="form-group">
35             <div class="col-md-offset-2 col-md-10">
36                 <input type="submit" value="Create" class="btn btn-default" />
37             </div>
38         </div>
39     </div>
40
41
42 <div>
43     @Html.ActionLink("Back to List", "Index")
44 </div>
45
46 @section Scripts {
47     @Scripts.Render("~/bundles/jqueryval")
48 }
49
```

## Edit Stranica

```
Edit.cshtml x
1 @model MvcMongoDB.Models.Note
2
3 @{
4     ViewBag.Title = "Edit";
5 }
6
7 <h2>Edit</h2>
8
9
10 @using (Html.BeginForm())
11 {
12
13     <div class="form-horizontal">
14         <hr />
15         @Html.ValidationSummary(true)
16
17         <div class="form-group">
18             @Html.LabelFor(model => model.NoteTitle, new { @class = "control-label col-md-2" })
19             <div class="col-md-10">
20                 @Html.TextBoxFor(model => model.NoteTitle)
21                 @Html.ValidationMessageFor(model => model.NoteTitle)
22             </div>
23         </div>
24
25         <div class="form-group">
26             @Html.LabelFor(model => model.NoteDescription, new { @class = "control-label col-md-2" })
27             <div class="col-md-10">
28                 @Html.TextAreaFor(model => model.NoteDescription, new { cols = 35, @rows = 3 })
29                 @Html.ValidationMessageFor(model => model.NoteDescription)
30             </div>
31         </div>
32
33         <div class="form-group">
34             <div class="col-md-offset-2 col-md-10">
35                 <input type="submit" value="Save" class="btn btn-default" />
36             </div>
37         </div>
38     </div>
39
40
41 <div>
42     @Html.ActionLink("Back to List", "Index")
43 </div>
44
```



# Primer Aplikacije

## • Izgled aplikacije

localhost:64326/Note/Create

NOTES Application Home About Contact

### Create

NoteTitle Veb Vezbe

NoteDescription Veb programiranja ASP.NET MVC sa MongoDB

Create

[Back to List](#)

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localhost:64326

NOTES Application Home About Contact

### Notes

[Create New](#)

NoteTitle	NoteDescription	
Veb Vezbe	Veb programiranja ASP.NET MVC sa MongoDB	<a href="#">Edit</a>   <a href="#">Delete</a>

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### Edit

NoteTitle Veb Vezbe

NoteDescription Veb programiranja ASP.NET MVC sa MongoDB

Save

[Back to List](#)

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### Delete

Are you sure you want to delete this Note?

NoteTitle Veb Vezbe

NoteDescription Veb programiranja ASP.NET MVC sa MongoDB

Delete | [Back to List](#)

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# Primer Aplikacije

- MongoDB



The screenshot shows the MongoDB Compass interface. On the left, a sidebar displays the database structure: 'System' and 'NotesDB'. The main area shows a query: `db.getCollection('Notes').find({})` executed against 'localhost:27017' in the 'NotesDB' database. The query returned one document from the 'Notes' collection in 0.001 seconds. The document is displayed in a table with two columns: 'Key' and 'Value'.

Key	Value
(1) ObjectId("59174fb07c4e303750bb951f")	{ 3 fields }
_id	ObjectId("59174fb07c4e303750bb951f")
NoteTitle	Veb Vezbe
NoteDescription	Veb programiranja ASP.NET MVC sa MongoDB