

ESONG

Web aplikacija u MVC 5, za online glasanje zemalja učesnica Eurosonga

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Ovaj dokument predstavlja prikaz celokupne implementacije softverskog rešenja u MVC-tehnologiji, za online glasanje zemalja učesnica Eurosonga.

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1. Specifikacija projekta

Projekat:

Softversko rešenje za implementaciju web aplikacije u MVC-tehnologiji, namenjenu za elektronsko glasanje zemalja učesnica Eurosonga.

*Projekat je urađen u cilju apliciranja autora projekta za radna mesta na pozicijama junior developera.

1.1. Cilj projekta

Cilj projekta je da se napravi troslojna web aplikacija koja će zemljama učesnicama omogućiti elektronsko glasanje, kao i pracenje rezultata takmicenja Eurosong. Cilj projekta najbolje opisuje sledeći zadatak:

EUROVISION VOTING

We need to create a project that will simulate voting process of the Eurovision song contest.

Technologies

We prefer to see the project made in Laravel / Vue.js/ReactJS. If you are not full-stack developer, you can focus only on the front-end or back-end with the technologies that you're familiar with. If you're focused on the front-end you may use Firebase (or something similar) as a direct access to the database.

Pages

Homepage: Should contain only two buttons (links to pages): "Countries" & "Results"

Countries: Contains the list of all countries. Click on a specific country opens "Voting" page

Voting: Contains the form for voting with a specific country

Results: Contains the voting results

Homepage

Contains just two buttons, Countries and Results.

Countries page

Contains the list of all countries. A country item should contain a flag of the country and the

name of the country next to the flag. When user clicks on a specific country it should open the "Voting" page for that country.

After voting, the country should still be in the list but disabled (grayed out or something) and it's not possible to vote again.

Voting page

When user clicks on a specific country in the Countries list, the Voting page should open for that country. This is where a selected country votes for other countries.

It contains a table with rows 1, 2, 3, 4 ,5 ,6 ,7 ,8 , 10 i 12 as voting scores. Every score contains a dropdown of countries, where user can select a country for a specific score. Below the table there should be a button Submit.

- Clicking on the Submit button will send the scores (preferable via AJAX) and redirect the user to Countries page. The voting country should be now there but grayed out (disabled).
- Once voted, the changes should be preserved after refreshing the browser's page
- When voting on the Voting page, user should not be able to give multiple scores to the same country e.g. if user gave a score 10 to Austria, he should not be able to give a score 12 again to Austria. A country also should not be able to vote to itself. We should filter out countries in dropdown (prefered) or add a validation.

Results page

Click on the Results button on the homepage to open the results page. This page should contain the list of all countries sorted by total voting scores.

- The country with the best total score should be first int the list.
- If there are no votes yet, please add a message that voting hasn't started yet.
- (Optional) Consider adding a CountriesXCountries matrix as a results table to show also how a specific country has voted for other countries

Please consider

- Adding URL routes for pages (e.g #countries, #results or /countries, /results) that will open a specific page by entering it in URL
- Create models/tables Country and Vote (add more if needed)
- Add 10-20 countries
- (for Laravel) Create migrations for creating tables and adding the content.
- Using some CSS front-end framework Bootstrap, Bulma etc
- Writing a clean code with good design, covered with documentation, tests etc (big plus).
- Filling the gaps in these requirements with your own ideas if you think that will improve the project

Final notes

Please put the source code of the project in Github and send us the link.

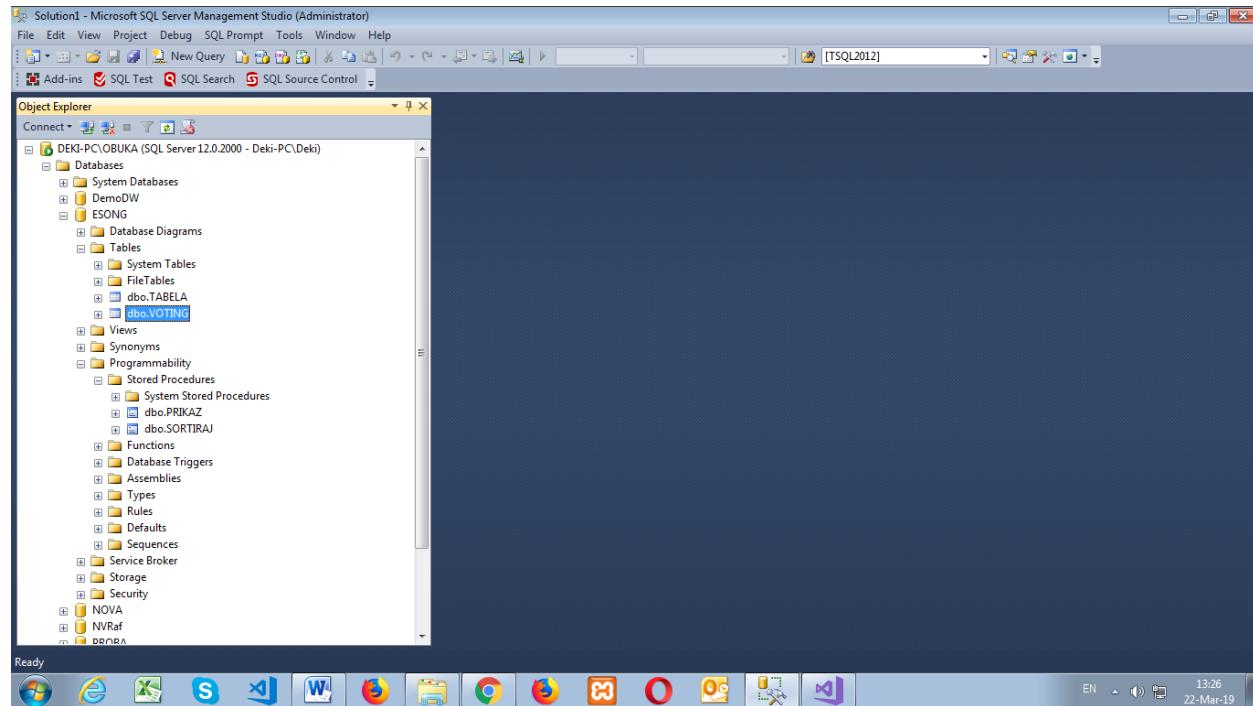
It should contain a Readme file that explains how to set up and run the project

You have 7 days to complete the project, starting from the day you receive this document.

Thanks for your time, and good luck! Hope you'll enjoy workin on this!

2. Model i Implementacija baze podataka u SQL serveru

U osnovi web aplikacije je baza koja je napravljena u SQL Server Management Studiju. Citav projekat ima dve tabele i dve procedure. Tabele su kreirane i nisu povezane.



Razlog tome je sto je tabela dbo.VOTING osnova za updejt druge tabele dbo.TABELA koja se updejtuje putem dve procedure dbo.PRIKAZ i dbo.SORTIRAJ. Ove procedure su uvedene kroz Model u MVC i na osnovu tog modela imamo finalni prikaz rezultata glasanja. Kodovi za formiranje tabela i procedura su dati u nastavku.

```

USE [ESONG]
GO

/******** Object: Table [dbo].[VOTING]      Script Date: 22-Mar-19
14:36:00 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[VOTING](
    [ZemljeGlasaci] [nvarchar](50) NOT NULL,
    [jedan] [nvarchar](30) NOT NULL,
    [dva] [nvarchar](30) NOT NULL,
    [tri] [nvarchar](30) NOT NULL,
    [cetiri] [nvarchar](30) NOT NULL,
    [pet] [nvarchar](30) NOT NULL,
    [sest] [nvarchar](30) NOT NULL,
    [sedam] [nvarchar](30) NOT NULL,
    [osam] [nvarchar](30) NOT NULL,
    [deset] [nvarchar](30) NOT NULL,
    [dvanaest] [nvarchar](30) NOT NULL,
PRIMARY KEY CLUSTERED
(
    [ZemljeGlasaci] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]

GO

```

```

USE [ESONG]
GO

/******** Object: Table [dbo].[TABELA]      Script Date: 22-Mar-19
14:36:37 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[TABELA](
    [Country] [nvarchar](50) NULL,
    [Score] [int] NULL

```

```
) ON [PRIMARY]
```

```
GO
```

```
USE [ESONG]
```

```
GO
```

```
***** Object: StoredProcedure [dbo].[SORTIRAJ]      Script Date: 22-
Mar-19 14:37:39 *****
SET ANSI_NULLS ON
GO
```

```
SET QUOTED_IDENTIFIER ON
GO
```

```
ALTER PROC [dbo].[SORTIRAJ]
```

```
AS
BEGIN
EXEC dbo.PRIKAZ
SELECT * FROM [dbo].[TABELA]
ORDER BY Score DESC;
```

```
END;
```

```
GO
```

```
USE [ESONG]
```

```
GO
```

```
***** Object: StoredProcedure [dbo].[PRIKAZ]      Script Date: 22-
Mar-19 14:37:16 *****
SET ANSI_NULLS ON
GO
```

```
SET QUOTED_IDENTIFIER ON
GO
```

-----STORED PROCEDURE ZA
PREBROJAVANJE PO KOLONI I PRAVLJENJE KONACNE TABELE-----
-----Armenia-----

CREATE PROC [dbo].[PRIKAZ]

AS

```
DECLARE @zemljal nvarchar(50)
DECLARE @poeniJEDANar int
DECLARE @poeniDVAar int
DECLARE @poeniTRIar int
DECLARE @poeniCETIRIar int
DECLARE @poeniPETar int
DECLARE @poeniSEStar int
DECLARE @poeniSEDAMar int
DECLARE @poeniOSAMar int
DECLARE @poeniDESETar int
DECLARE @poeniDVANAESTar int
DECLARE @total1 int
```

```
SET @zemljal = 'Armenia'
```

```
DECLARE @brpokoloni1 int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Armenia%')
SET @poeniJEDANar = @brpokoloni1*1;
```

```
DECLARE @brpokoloni2 int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Armenia%')
SET @poeniDVAar = @brpokoloni2*2;
```

```
DECLARE @brpokoloni3 int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Armenia%')
SET @poeniTRIar = @brpokoloni3*3;
```

```
DECLARE @brpokoloni4 int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Armenia%')
SET @poeniCETIRIar = @brpokoloni4*4;
```

```
DECLARE @brpokoloni5 int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Armenia%')
SET @poeniPETar = @brpokoloni5*5;
```

```

DECLARE @brpokoloni6 int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Armenia%')
SET @poeniSEStar = @brpokoloni6*6;

DECLARE @brpokoloni7 int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Armenia%')
SET @poeniSEDAMar = @brpokoloni7*7;

DECLARE @brpokoloni8 int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Armenia%')
SET @poeniosAMar = @brpokoloni8*8;

DECLARE @brpokoloni10 int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Armenia%')
SET @poenideSETar = @brpokoloni10*10;

DECLARE @brpokoloni12 int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Armenia%')
SET @poenidVANAESTar = @brpokoloni12*12;

SET @total1 =
@poeniJEDANar+@poeniDVAar+@poeniTRIar+@poeniCETIRIar+@poeniPETar+@poeniSEStar+@poeniSEDAMar+@poeniosAMar+@poenideSETar+@poenidVANAESTar;

```

-----Belgium-----

```

DECLARE @zemlja2 nvarchar(50)
DECLARE @poeniJEDANbg int
DECLARE @poeniDVAbg int
DECLARE @poeniTRIbg int
DECLARE @poeniCETIRIbg int
DECLARE @poeniPETbg int
DECLARE @poeniSESTbg int
DECLARE @poeniSEDAMbg int

```

```

DECLARE @poeniOSAMbg int
DECLARE @poeniDESETbg int
DECLARE @poeniDVANAESTbg int
DECLARE @total2 int

SET @zemlja2 = 'Belgium'

DECLARE @brpokolonilbg int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Belgium%')
SET @poeniJEDANbg = @brpokolonilbg*1;

DECLARE @brpokoloni2bg int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Belgium%')
SET @poeniDVAbg = @brpokoloni2bg*2;

DECLARE @brpokoloni3bg int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Belgium%')
SET @poeniTRIbg = @brpokoloni3bg*3;

DECLARE @brpokoloni4bg int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Belgium%')
SET @poeniCETIRIbg = @brpokoloni4bg*4;

DECLARE @brpokoloni5bg int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Belgium%')
SET @poeniPETbg = @brpokoloni5bg*5;

DECLARE @brpokoloni6bg int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Belgium%')
SET @poeniSESTbg = @brpokoloni6bg*6;

DECLARE @brpokoloni7bg int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Belgium%')
SET @poeniSEDAMbg = @brpokoloni7bg*7;

DECLARE @brpokoloni8bg int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Belgium%')
SET @poeniOSAMbg = @brpokoloni8bg*8;

DECLARE @brpokoloni10bg int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Belgium%')
SET @poeniDESETbg = @brpokoloni10bg*10;

```

```
DECLARE @brpokoloni12bg int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Belgium%')
SET @poeniDVANAESTbg = @brpokoloni12bg*12;

SET @total2 =
@poeniJEDANbg+@poeniDVAbg+@poeniTRIbg+@poeniCETIRIbg+@poeniPETbg+@poen
iSESTbg+@poeniSEDAMbg+@poeniosAMBg+@poeniDESETbg+@poeniDVANAESTbg;
```


----- Belarus -----

```
DECLARE @zemlja3 nvarchar(50)
DECLARE @poeniJEDANbs int
DECLARE @poeniDVAbc int
DECLARE @poeniTRIbs int
DECLARE @poeniCETIRIbs int
DECLARE @poeniPETbs int
DECLARE @poeniSESTbs int
DECLARE @poeniSEDAMbs int
DECLARE @poeniosAMBs int
DECLARE @poeniDESETbs int
DECLARE @poeniDVANAESTbs int
DECLARE @total3 int

SET @zemlja3 = 'Belarus'

DECLARE @brpokolonilbs int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Belarus%')
SET @poeniJEDANbs = @brpokolonilbs*1;

DECLARE @brpokoloni2bs int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Belarus%')
SET @poeniDVAbc = @brpokoloni2bs*2;

DECLARE @brpokoloni3bs int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Belarus%')
SET @poeniTRIbs = @brpokoloni3bs*3;

DECLARE @brpokoloni4bs int =
```

```

(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Belarus%')
SET @poeniCETIRIbs = @brpokoloni4bs*4;

DECLARE @brpokoloni5bs int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Belarus%')
SET @poeniPETbs = @brpokoloni5bs*5;

DECLARE @brpokoloni6bs int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Belarus%')
SET @poeniSESTbs = @brpokoloni6bs*6;

DECLARE @brpokoloni7bs int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Belarus%')
SET @poeniSEDAMbs = @brpokoloni7bs*7;

DECLARE @brpokoloni8bs int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Belarus%')
SET @poeniOSAMbs = @brpokoloni8bs*8;

DECLARE @brpokoloni10bs int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Belarus%')
SET @poeniDESETbs = @brpokoloni10bs*10;

DECLARE @brpokoloni12bs int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Belarus%')
SET @poeniDVANAESTbs = @brpokoloni12bs*12;

SET @total3 =
@poeniJEDANbs+@poeniDVABs+@poeniTRIbs+@poeniCETIRIbs+@poeniPETbs+@poen
iSESTbs+@poeniSEDAMbs+@poeniIOSAMbs+@poeniDESETbs+@poeniDVANAESTbs;

```

----- BIH -----

```

DECLARE @zemlja4 nvarchar(50)
DECLARE @poeniJEDANbh int
DECLARE @poeniDVAbh int
DECLARE @poeniTRIbh int

```

```

DECLARE @poeniCETIRIbh int
DECLARE @poeniPETbh int
DECLARE @poeniSESTbh int
DECLARE @poeniSEDAMbh int
DECLARE @poeniOSAMbh int
DECLARE @poeniDESETbh int
DECLARE @poeniDVANAESTbh int
DECLARE @total4 int

SET @zemlja4 = 'BIH'

DECLARE @brpokolonilbh int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%BIH%')
SET @poeniJEDANbh = @brpokolonilbh*1;

DECLARE @brpokoloni2bh int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%BIH%')
SET @poeniDVAbh = @brpokoloni2bh*2;

DECLARE @brpokoloni3bh int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%BIH%')
SET @poenitRIbh = @brpokoloni3bh*3;

DECLARE @brpokoloni4bh int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%BIH%')
SET @poenicETIRIbh = @brpokoloni4bh*4;

DECLARE @brpokoloni5bh int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%BIH%')
SET @poeniPETbh = @brpokoloni5bh*5;

DECLARE @brpokoloni6bh int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%BIH%')
SET @poeniSESTbh = @brpokoloni6bh*6;

DECLARE @brpokoloni7bh int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%BIH%')
SET @poeniSEDAMbh = @brpokoloni7bh*7;

DECLARE @brpokoloni8bh int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%BIH%')
SET @poeniOSAMbh = @brpokoloni8bh*8;

```

```

DECLARE @brpokoloni10bh int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%BIH%')
SET @poeniDESETbh = @brpokoloni10bh*10;

DECLARE @brpokoloni12bh int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%BIH%')
SET @poeniDVANAESTbh = @brpokoloni12bh*12;

SET @total4 =
@poeniJEDANbh+@poeniDVAbh+@poeniTRIbh+@poeniCETIRIbh+@poeniPETbh+@poen
iSESTbh+@poeniSEDAMbh+@poeniosAMbh+@poeniDESETbh+@poeniDVANAESTbh;

```


----- Cyprus

```

DECLARE @zemlja5 nvarchar(50)
DECLARE @poeniJEDANCy int
DECLARE @poeniDVAcY int
DECLARE @poeniTRICy int
DECLARE @poeniCETIRICy int
DECLARE @poeniPETcy int
DECLARE @poeniSESTcy int
DECLARE @poeniSEDAMcy int
DECLARE @poeniOSAMcy int
DECLARE @poeniDESETcy int
DECLARE @poeniDVANAESTcy int
DECLARE @total5 int

SET @zemlja5 = 'Cyprus'

DECLARE @brpokoloni1cy int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Cyprus%')
SET @poeniJEDANCy = @brpokoloni1cy*1;

DECLARE @brpokoloni2cy int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Cyprus%')
SET @poeniDVAcY = @brpokoloni2cy*2;

DECLARE @brpokoloni3cy int =
(SELECT COUNT(tri) from dbo.VOTING

```

```

WHERE tri LIKE '%Cyprus%')
SET @poeniTRIcy = @brpokoloni3cy*3;

DECLARE @brpokoloni4cy int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Cyprus%')
SET @poeniCETIRIcy = @brpokoloni4cy*4;

DECLARE @brpokoloni5cy int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Cyprus%')
SET @poeniPETcy = @brpokoloni5cy*5;

DECLARE @brpokoloni6cy int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Cyprus%')
SET @poeniSESTcy = @brpokoloni6cy*6;

DECLARE @brpokoloni7cy int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Cyprus%')
SET @poeniSEDAMcy = @brpokoloni7cy*7;

DECLARE @brpokoloni8cy int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Cyprus%')
SET @poeniOSAMcy = @brpokoloni8cy*8;

DECLARE @brpokoloni10cy int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Cyprus%')
SET @poeniDESETcy = @brpokoloni10cy*10;

DECLARE @brpokoloni12cy int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Cyprus%')
SET @poeniDVANAESTcy = @brpokoloni12cy*12;

SET @total5 =
@poeniJEDANCy+@poeniDVACy+@poeniTRIcy+@poeniCETIRIcy+@poeniPETcy+@poen
iSESTcy+@poeniSEDAMcy+@poeniOSAMcy+@poeniDESETcy+@poeniDVANAESTcy;

```

-----Malta

```

DECLARE @zemlja6 nvarchar(50)
DECLARE @poeniJEDANma int
DECLARE @poeniDVAmA int
DECLARE @poeniTRIma int
DECLARE @poeniCETIRIma int
DECLARE @poeniPETma int
DECLARE @poeniSESTma int
DECLARE @poeniSEDAMma int
DECLARE @poeniOSAMma int
DECLARE @poeniDESETma int
DECLARE @poeniDVANAESTma int
DECLARE @total6 int

SET @zemlja6 = 'Malta'

DECLARE @brpokoloni1ma int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Malta%')
SET @poeniJEDANma = @brpokoloni1ma*1;

DECLARE @brpokoloni2ma int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Malta%')
SET @poeniDVAmA = @brpokoloni2ma*2;

DECLARE @brpokoloni3ma int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Malta%')
SET @poeniTRIma = @brpokoloni3ma*3;

DECLARE @brpokoloni4ma int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Malta%')
SET @poeniCETIRIma = @brpokoloni4ma*4;

DECLARE @brpokoloni5ma int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Malta%')
SET @poeniPETma = @brpokoloni5ma*5;

DECLARE @brpokoloni6ma int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Malta%')
SET @poeniSESTma = @brpokoloni6ma*6;

DECLARE @brpokoloni7ma int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Malta%')

```

```

SET @poeniSEDAMma = @brpokoloni7ma*7;

DECLARE @brpokoloni8ma int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Malta%')
SET @poeniOSAMma = @brpokoloni8ma*8;

DECLARE @brpokoloni10ma int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Malta%')
SET @poeniDESETma = @brpokoloni10ma*10;

DECLARE @brpokoloni12ma int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Malta%')
SET @poeniDVANAESTma = @brpokoloni12ma*12;

SET @total6 =
@poeniJEDANma+@poeniDVAmA+@poeniTRIma+@poeniCETIRIma+@poeniPETma+@poen
iSESTma+@poeniSEDAMma+@poeniOSAMma+@poeniDESETma+@poeniDVANAESTma;

```


----- Montenegro

```

DECLARE @zemlja7 nvarchar(50)
DECLARE @poeniJEDANmg int
DECLARE @poeniDVAmg int
DECLARE @poeniTRIImg int
DECLARE @poeniCETIRIImg int
DECLARE @poeniPETmg int
DECLARE @poeniSESTmg int
DECLARE @poeniSEDAMmg int
DECLARE @poeniOSAMmg int
DECLARE @poeniDESETmg int
DECLARE @poeniDVANAESTmg int
DECLARE @total7 int

SET @zemlja7 = 'Montenegro'

DECLARE @brpokolonilmg int =
(SELECT COUNT(jedan) from dbo.VOTING

```

```

WHERE jedan LIKE '%Montenegro%')
SET @poeniJEDANmg = @brpokolonilmg*1;

DECLARE @brpokoloni2mg int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Montenegro%')
SET @poeniDVAmg = @brpokoloni2mg*2;

DECLARE @brpokoloni3mg int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Montenegro%')
SET @poenitRImg = @brpokoloni3mg*3;

DECLARE @brpokoloni4mg int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Montenegro%')
SET @poenicETIRImg = @brpokoloni4mg*4;

DECLARE @brpokoloni5mg int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Montenegro%')
SET @poeniPETmg = @brpokoloni5mg*5;

DECLARE @brpokoloni6mg int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Montenegro%')
SET @poeniSESTMg = @brpokoloni6mg*6;

DECLARE @brpokoloni7mg int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Montenegro%')
SET @poeniSEDAMmg = @brpokoloni7mg*7;

DECLARE @brpokoloni8mg int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Montenegro%')
SET @poeniosAMmg = @brpokoloni8mg*8;

DECLARE @brpokoloni10mg int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Montenegro%')
SET @poeniDESETmg = @brpokoloni10mg*10;

DECLARE @brpokoloni12mg int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Montenegro%')
SET @poenidVANAESTmg = @brpokoloni12mg*12;

SET @total7 =
@poeniJEDANmg+@poeniDVAmg+@poenitRImg+@poenicETIRImg+@poeniPETmg+@poen
iSESTMg+@poeniSEDAMmg+@poeniosAMmg+@poeniDESETmg+@poenidVANAESTmg;

```


-----Estonia

```
DECLARE @zemlja8 nvarchar(50)
DECLARE @poeniJEDANes int
DECLARE @poeniDVAes int
DECLARE @poeniTRIes int
DECLARE @poeniCETIRIes int
DECLARE @poeniPETes int
DECLARE @poeniSESTes int
DECLARE @poeniSEDAMes int
DECLARE @poeniOSAMes int
DECLARE @poeniDESETes int
DECLARE @poeniDVANAESTes int
DECLARE @total8 int

SET @zemlja8 = 'Estonia'

DECLARE @brpokoloniles int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Estonia%')
SET @poeniJEDANes = @brpokoloniles*1;

DECLARE @brpokoloni2es int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Estonia%')
SET @poeniDVAes = @brpokoloni2es*2;

DECLARE @brpokoloni3es int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Estonia%')
SET @poeniTRIes = @brpokoloni3es*3;

DECLARE @brpokoloni4es int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Estonia%')
SET @poeniCETIRIes = @brpokoloni4es*4;

DECLARE @brpokoloni5es int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Estonia%')
SET @poeniPETes = @brpokoloni5es*5;
```

```

DECLARE @brpokoloni6es int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Estonia%')
SET @poeniSESTes = @brpokoloni6es*6;

DECLARE @brpokoloni7es int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Estonia%')
SET @poenisedAMes = @brpokoloni7es*7;

DECLARE @brpokoloni8es int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Estonia%')
SET @poeniosAMes = @brpokoloni8es*8;

DECLARE @brpokoloni10es int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Estonia%')
SET @poenideSETes = @brpokoloni10es*10;

DECLARE @brpokoloni12es int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Estonia%')
SET @poenidVANAESTes = @brpokoloni12es*12;

SET @total8 =
@poenijEDANes+@poenidVAes+@poenitRIes+@poenicETIRIes+@poenipETes+@poen
iSESTes+@poenisedAMes+@poeniosAMes+@poenideSETes+@poenidVANAESTes;

```

-----Finland

```

DECLARE @zemlja9 nvarchar(50)
DECLARE @poenijEDANfi int
DECLARE @poenidVAfi int
DECLARE @poenitRIfi int
DECLARE @poenicETIRIfi int
DECLARE @poenipETfi int
DECLARE @poeniseSTfi int
DECLARE @poenisedAMfi int
DECLARE @poeniosAMfi int
DECLARE @poenideSETfi int
DECLARE @poenidVANAESTfi int
DECLARE @total9 int

```

```

SET @zemlja9 = 'Finland'

DECLARE @brpokoloni1fi int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Finland%')
SET @poeniJEDANfi = @brpokoloni1fi*1;

DECLARE @brpokoloni2fi int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Finland%')
SET @poeniDVAfi = @brpokoloni2fi*2;

DECLARE @brpokoloni3fi int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Finland%')
SET @poeniTRIfi = @brpokoloni3fi*3;

DECLARE @brpokoloni4fi int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Finland%')
SET @poeniCETIRIfi = @brpokoloni4fi*4;

DECLARE @brpokoloni5fi int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Finland%')
SET @poeniPETfi = @brpokoloni5fi*5;

DECLARE @brpokoloni6fi int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Finland%')
SET @poeniSESTfi = @brpokoloni6fi*6;

DECLARE @brpokoloni7fi int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Finland%')
SET @poenisedAMfi = @brpokoloni7fi*7;

DECLARE @brpokoloni8fi int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Finland%')
SET @poeniOSAMfi = @brpokoloni8fi*8;

DECLARE @brpokoloni10fi int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Finland%')
SET @poeniDESETfi = @brpokoloni10fi*10;

DECLARE @brpokoloni12fi int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Finland%')
SET @poeniDVANAESTfi = @brpokoloni12fi*12;

```

```
SET @total9 =
@poeniJEDANfi+@poeniDVAfi+@poeniTRIfi+@poeniCETIRIfi+@poeniPETfi+@poen
iSESTfi+@poeniSEDAMfi+@poeniosAMfi+@poeniDESETfi+@poenidVANAESTfi;
```

```
-----  
-----  
----France
```

```
DECLARE @zemlja10 nvarchar(50)
DECLARE @poeniJEDANfr int
DECLARE @poeniDVAfr int
DECLARE @poeniTRIfr int
DECLARE @poeniCETIRIfr int
DECLARE @poeniPETfr int
DECLARE @poeniSESTfr int
DECLARE @poeniSEDAMfr int
DECLARE @poeniosAMfr int
DECLARE @poeniDESETfr int
DECLARE @poenidVANAESTfr int
DECLARE @total10 int
```

```
SET @zemlja10 = 'France'
```

```
DECLARE @brpokolonilfr int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%France%')
SET @poeniJEDANfr = @brpokolonilfr*1;
```

```
DECLARE @brpokoloni2fr int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%France%')
SET @poeniDVAfr = @brpokoloni2fr*2;
```

```
DECLARE @brpokoloni3fr int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%France%')
SET @poenitRIfr = @brpokoloni3fr*3;
```

```
DECLARE @brpokoloni4fr int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%France%')
SET @poeniCETIRIfr = @brpokoloni4fr*4;
```

```
DECLARE @brpokoloni5fr int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%France%')
```

```

SET @poeniPETfr = @brpokoloni5fr*5;

DECLARE @brpokoloni6fr int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%France%')
SET @poeniSESTfr = @brpokoloni6fr*6;

DECLARE @brpokoloni7fr int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%France%')
SET @poeniSEDAMfr = @brpokoloni7fr*7;

DECLARE @brpokoloni8fr int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%France%')
SET @poeniOSAMfr = @brpokoloni8fr*8;

DECLARE @brpokoloni10fr int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%France%')
SET @poeniDESETfr = @brpokoloni10fr*10;

DECLARE @brpokoloni12fr int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%France%')
SET @poeniDVANAESTfr = @brpokoloni12fr*12;

SET @total10 =
@poeniJEDANfr+@poeniDVAfr+@poeniTRIfr+@poeniCETIRIfr+@poeniPETfr+@poen
iSESTfr+@poeniSEDAMfr+@poeniOSAMfr+@poeniDESETfr+@poeniDVANAESTfr;

```


----- Serbia

```

DECLARE @zemlja11 nvarchar(50)
DECLARE @poeniJEDANSr int
DECLARE @poeniDVAsr int
DECLARE @poeniTRIsr int
DECLARE @poeniCETIRIsr int
DECLARE @poeniPETsr int
DECLARE @poeniSESTSr int

```

```

DECLARE @poeniSEDAMsr int
DECLARE @poeniOSAMsr int
DECLARE @poeniDESETsr int
DECLARE @poeniDVANAESTsr int
DECLARE @total11 int

SET @zemlja11 = 'Serbia'

DECLARE @brpokoloni1sr int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Serbia%')
SET @poeniJEDANsr = @brpokoloni1sr*1;

DECLARE @brpokoloni2sr int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Serbia%')
SET @poeniDVAsr = @brpokoloni2sr*2;

DECLARE @brpokoloni3sr int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Serbia%')
SET @poeniTRIsr = @brpokoloni3sr*3;

DECLARE @brpokoloni4sr int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Serbia%')
SET @poeniCETIRIsr = @brpokoloni4sr*4;

DECLARE @brpokoloni5sr int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Serbia%')
SET @poeniPETsr = @brpokoloni5sr*5;

DECLARE @brpokoloni6sr int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Serbia%')
SET @poeniSESTsr = @brpokoloni6sr*6;

DECLARE @brpokoloni7sr int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Serbia%')
SET @poeniSEDAMsr = @brpokoloni7sr*7;

DECLARE @brpokoloni8sr int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Serbia%')
SET @poeniOSAMsr = @brpokoloni8sr*8;

DECLARE @brpokoloni10sr int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Serbia%')

```

```

SET @poeniDESETsr = @brpokoloni10sr*10;

DECLARE @brpokoloni12sr int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Serbia%')
SET @poeniDVANAESTsr = @brpokoloni12sr*12;

SET @total11 =
@poeniJEDANSr+@poeniDVAsr+@poeniTRIsr+@poeniCETIRIsr+@poeniPETsr+@poen
iSESTsr+@poeniSEDAMsr+@poeniosAMsr+@poeniDESETsr+@poeniDVANAESTsr;
-----
```

-----Russia

```

DECLARE @zemlja12 nvarchar(50)
DECLARE @poeniJEDANrs int
DECLARE @poeniDVArS int
DECLARE @poeniTRIrs int
DECLARE @poeniCETIRIrs int
DECLARE @poeniPETrs int
DECLARE @poeniSESTrs int
DECLARE @poeniSEDAMrs int
DECLARE @poeniosAMrs int
DECLARE @poeniDESETrs int
DECLARE @poeniDVANAESTrs int
DECLARE @total12 int

SET @zemlja12 = 'Russia'

DECLARE @brpokoloni1rs int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Russia%')
SET @poeniJEDANrs = @brpokoloni1rs *1;

DECLARE @brpokoloni2rs int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Russia%')
SET @poeniDVArS = @brpokoloni2rs *2;

DECLARE @brpokoloni3rs int =
(SELECT COUNT(tri) from dbo.VOTING
```

```

WHERE tri LIKE '%Russia%')
SET @poeniTRIrs = @brpokoloni3rs *3;

DECLARE @brpokoloni4rs int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Russia%')
SET @poeniCETIRIrs = @brpokoloni4rs *4;

DECLARE @brpokoloni5rs int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Russia%')
SET @poeniPETrs = @brpokoloni5rs*5;

DECLARE @brpokoloni6rs int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Russia%')
SET @poeniSESTrs = @brpokoloni6rs *6;

DECLARE @brpokoloni7rs int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Russia%')
SET @poeniSEDAMrs = @brpokoloni7rs *7;

DECLARE @brpokoloni8rs int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Russia%')
SET @poeniOSAMrs = @brpokoloni8rs *8;

DECLARE @brpokoloni10rs int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Russia%')
SET @poeniDESETrs = @brpokoloni10rs *10;

DECLARE @brpokoloni12rs int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Russia%')
SET @poeniDVANAESTrs = @brpokoloni12rs *12;

SET @total12 = @poeniJEDANrs +@poeniDVArns +@poeniTRIrs
+@poeniCETIRIrs+@poeniPETrs+@poeniSESTrs+@poeniSEDAMrs+@poeniOSAMrs+@poeniDESETrs+@poeniDVANAESTrs;

```

-----Romania

```

DECLARE @zemlja13 nvarchar(50)
DECLARE @poeniJEDANro int
DECLARE @poeniDVArо int
DECLARE @poeniTRIro int
DECLARE @poeniCETIRIro int
DECLARE @poeniPETro int
DECLARE @poeniSESTro int
DECLARE @poeniSEDAMro int
DECLARE @poeniOSAMro int
DECLARE @poeniDESETro int
DECLARE @poeniDVANAESTro int
DECLARE @total13 int

SET @zemlja13 = 'Romania'

DECLARE @brpokoloni1ro int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Romania%')
SET @poeniJEDANro = @brpokoloni1ro*1;

DECLARE @brpokoloni2ro int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Romania%')
SET @poeniDVArо = @brpokoloni2ro*2;

DECLARE @brpokoloni3ro int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Romania%')
SET @poeniTRIro = @brpokoloni3ro*3;

DECLARE @brpokoloni4ro int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Romania%')
SET @poeniCETIRIro = @brpokoloni4ro*4;

DECLARE @brpokoloni5ro int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Romania%')
SET @poeniPETro = @brpokoloni5ro*5;

DECLARE @brpokoloni6ro int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Romania%')
SET @poeniSESTro = @brpokoloni6ro*6;

DECLARE @brpokoloni7ro int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Romania%')

```

```

SET @poeniSEDAMro = @brpokoloni7ro*7;

DECLARE @brpokoloni8ro int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Romania%')
SET @poeniOSAMro = @brpokoloni8ro*8;

DECLARE @brpokoloni10ro int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Romania%')
SET @poeniDESETro = @brpokoloni10ro*10;

DECLARE @brpokoloni12ro int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Romania%')
SET @poeniDVANAESTro = @brpokoloni12ro*12;

SET @total13 =
@poeniJEDANro+@poeniDVArо+@poeniTRIro+@poeniCETIRIro+@poeniPETro+@poen
иSESTro+@poeniSEDAMro+@poeniOSAMro+@poeniDESETro+@poeniDVANAESTro;

```


---Ukraine

```

DECLARE @zemlja14 nvarchar(50)
DECLARE @poeniJEDANuk int
DECLARE @poeniDVAuk int
DECLARE @poeniTRIuk int
DECLARE @poeniCETIRIuk int
DECLARE @poeniPETuk int
DECLARE @poeniSESTuk int
DECLARE @poeniSEDAMuk int
DECLARE @poeniOSAMuk int
DECLARE @poeniDESETuk int
DECLARE @poeniDVANAESTuk int
DECLARE @total14 int

SET @zemlja14 = 'Ukraine'

DECLARE @brpokoloniluk int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Ukraine%')
SET @poeniJEDANuk = @brpokoloniluk*1;

```

```

DECLARE @brpokoloni2uk int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Ukraine%')
SET @poeniDVAuk = @brpokoloni2uk*2;

DECLARE @brpokoloni3uk int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Ukraine%')
SET @poeniTRIuk = @brpokoloni3uk*3;

DECLARE @brpokoloni4uk int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Ukraine%')
SET @poenICETIRIuk = @brpokoloni4uk*4;

DECLARE @brpokoloni5uk int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Ukraine%')
SET @poeniPETuk = @brpokoloni5uk*5;

DECLARE @brpokoloni6uk int =
(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Ukraine%')
SET @poeniSESTuk = @brpokoloni6uk*6;

DECLARE @brpokoloni7uk int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Ukraine%')
SET @poenISEDAMuk = @brpokoloni7uk*7;

DECLARE @brpokoloni8uk int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Ukraine%')
SET @poenIOSAMuk = @brpokoloni8uk*8;

DECLARE @brpokoloni10uk int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Ukraine%')
SET @poeniDESETuk = @brpokoloni10uk*10;

DECLARE @brpokoloni12uk int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Ukraine%')
SET @poeniDVANAESTuk = @brpokoloni12uk*12;

SET @total14 =
@poeniJEDANuk+@poeniDVAuk+@poeniTRIuk+@poenICETIRIuk+@poeniPETuk+@poenISESTuk+@poenISEDAMuk+@poenIOSAMuk+@poeniDESETuk+@poeniDVANAESTuk;

```


-----Sweden

```
DECLARE @zemlja15 nvarchar(50)
DECLARE @poeniJEDANsw int
DECLARE @poeniDVAsw int
DECLARE @poeniTRIsw int
DECLARE @poeniCETIRIsw int
DECLARE @poeniPETsw int
DECLARE @poeniSESTsw int
DECLARE @poeniSEDAMsw int
DECLARE @poeniOSAMsw int
DECLARE @poeniDESETsw int
DECLARE @poeniDVANAESTsw int
DECLARE @total15 int

SET @zemlja15 = 'Sweden'

DECLARE @brpokolonilsw int =
(SELECT COUNT(jedan) from dbo.VOTING
WHERE jedan LIKE '%Sweden%')
SET @poeniJEDANsw = @brpokolonilsw*1;

DECLARE @brpokoloni2sw int =
(SELECT COUNT(dva) from dbo.VOTING
WHERE dva LIKE '%Sweden%')
SET @poeniDVAsw = @brpokoloni2sw*2;

DECLARE @brpokoloni3sw int =
(SELECT COUNT(tri) from dbo.VOTING
WHERE tri LIKE '%Sweden%')
SET @poeniTRIsw = @brpokoloni3sw*3;

DECLARE @brpokoloni4sw int =
(SELECT COUNT(cetiri) from dbo.VOTING
WHERE cetiri LIKE '%Sweden%')
SET @poeniCETIRIsw = @brpokoloni4sw*4;

DECLARE @brpokoloni5sw int =
(SELECT COUNT(pet) from dbo.VOTING
WHERE pet LIKE '%Sweden%')
SET @poeniPETsw = @brpokoloni5sw*5;

DECLARE @brpokoloni6sw int =
```

```

(SELECT COUNT(sest) from dbo.VOTING
WHERE sest LIKE '%Sweden%')
SET @poeniSESTsw = @brpokoloni6sw*6;

DECLARE @brpokoloni7sw int =
(SELECT COUNT(sedam) from dbo.VOTING
WHERE sedam LIKE '%Sweden%')
SET @poeniSEDAMsw = @brpokoloni7sw*7;

DECLARE @brpokoloni8sw int =
(SELECT COUNT(osam) from dbo.VOTING
WHERE osam LIKE '%Sweden%')
SET @poeniOSAMsw = @brpokoloni8sw*8;

DECLARE @brpokoloni10sw int =
(SELECT COUNT(deset) from dbo.VOTING
WHERE deset LIKE '%Sweden%')
SET @poeniDESETsw = @brpokoloni10sw*10;

DECLARE @brpokoloni12sw int =
(SELECT COUNT(dvanaest) from dbo.VOTING
WHERE dvanaest LIKE '%Sweden%')
SET @poeniDVANAESTsw = @brpokoloni12sw*12;

SET @total15 =
@poeniJEDANsw+@poeniDVAsw+@poeniTRIsw+@poeniCETIRIsw+@poeniPETsw+@poen
iSESTsw+@poeniSEDAMsw+@poeniOSAMsw+@poeniDESETsw+@poeniDVANAESTsw;

```

BEGIN

```

UPDATE [dbo].[TABELA]
    SET Score =@total1
    WHERE Country = @zemlja1;

```

```

UPDATE [dbo].[TABELA]
    SET Score =@total2
    WHERE Country=@zemlja2;

```

```

UPDATE [dbo].[TABELA]
    SET Score =@total3
    WHERE Country=@zemlja3;

```

```

UPDATE [dbo].[TABELA]
    SET Score =@total4
    WHERE Country=@zemlja4;

```

```

UPDATE [dbo].[TABELA]
    SET Score =@total5
    WHERE Country=@zemlja5;

```

```
UPDATE [dbo].[TABELA]
      SET Score =@total6
      WHERE Country=@zemlja6;

UPDATE [dbo].[TABELA]
      SET Score =@total7
      WHERE Country=@zemlja7;

UPDATE [dbo].[TABELA]
      SET Score =@total8
      WHERE Country=@zemlja8;

UPDATE [dbo].[TABELA]
      SET Score =@total9
      WHERE Country=@zemlja9;

UPDATE [dbo].[TABELA]
      SET Score =@total10
      WHERE Country=@zemlja10;

UPDATE [dbo].[TABELA]
      SET Score =@total11
      WHERE Country=@zemlja11;

UPDATE [dbo].[TABELA]
      SET Score =@total12
      WHERE Country=@zemlja12;

UPDATE [dbo].[TABELA]
      SET Score =@total13
      WHERE Country=@zemlja13;

UPDATE [dbo].[TABELA]
      SET Score =@total14
      WHERE Country=@zemlja14;

UPDATE [dbo].[TABELA]
      SET Score =@total15
      WHERE Country=@zemlja15;
```

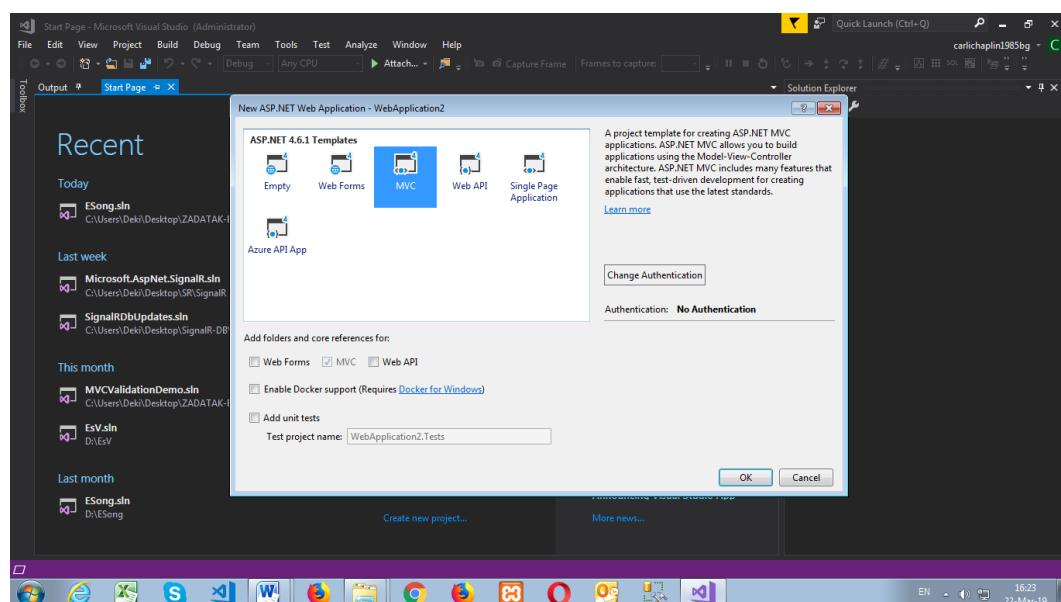
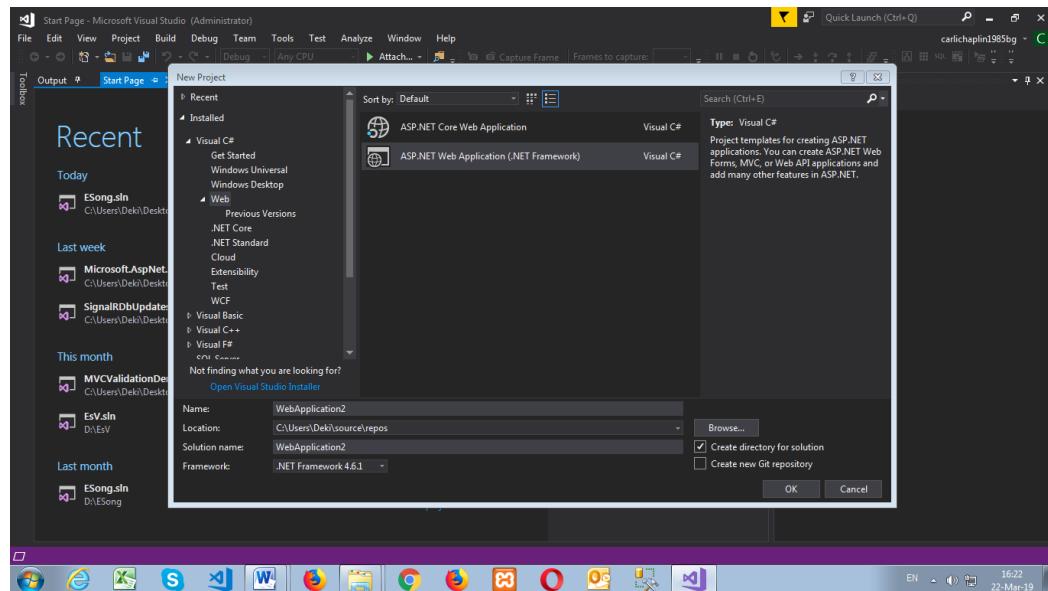
END;

GO



3. Implementacija rešenja

Nakon posla koji je uradjen u SQL SMS-u, prelazim na izradu samog projekta. Naredne dve fotografije daju samo primer sta treba odabratiti na samom pocetku u Visual Studiju. Radi se o MVC projektu.



Projekat na kraju rada izgleda sa brojnim pratecim fajlovima ovako:

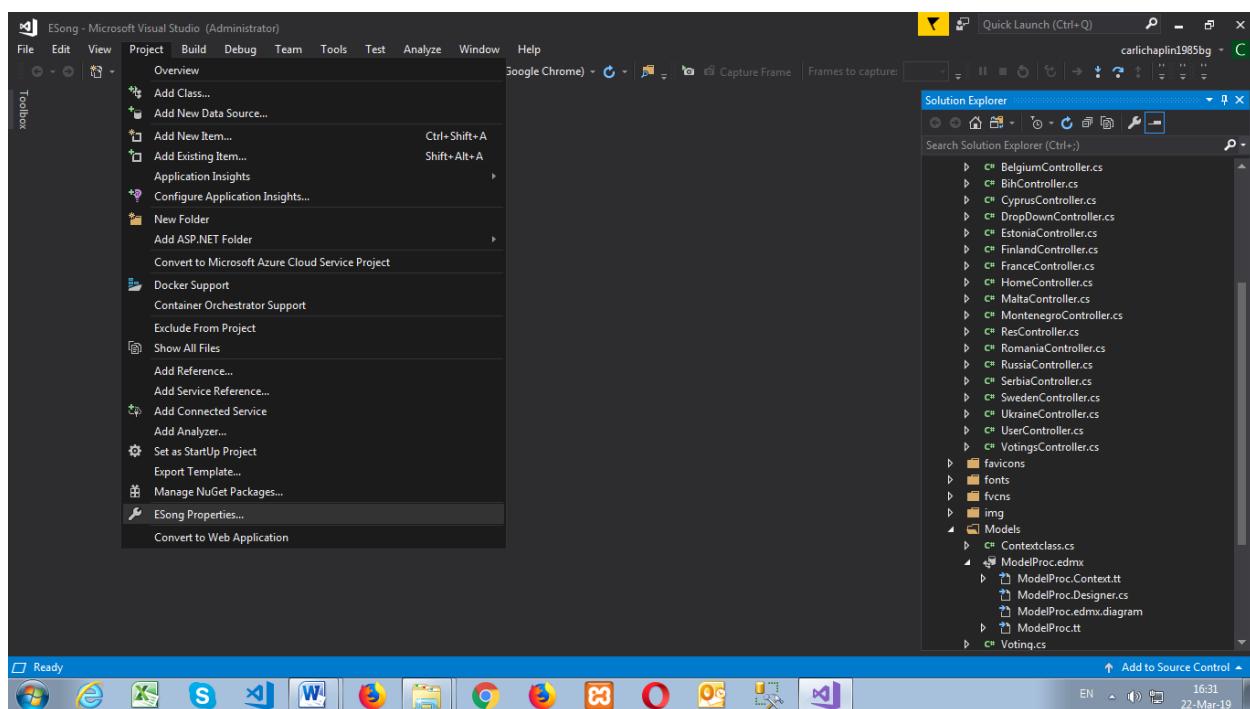
The screenshot shows the Microsoft Visual Studio interface. The title bar says "ESong (Running) - Microsoft Visual Studio (Administrator)". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, and Help. The toolbar has icons for Save, Undo, Redo, Cut, Copy, Paste, Find, Replace, and others. The status bar at the bottom right shows "EN 16:31 22-Mar-19".

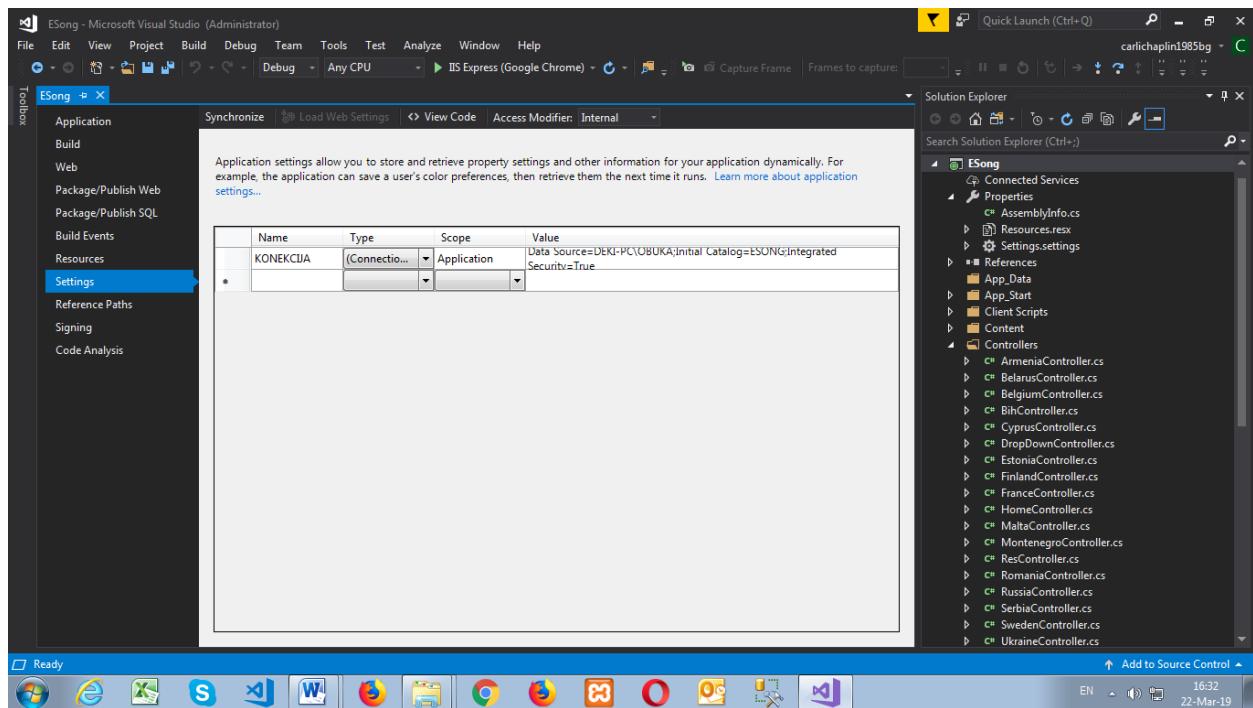
The Solution Explorer on the right lists several files and folders:

- BelgiumController.cs
- BihController.cs
- CyprusController.cs
- DropDownController.cs
- EstoniaController.cs
- FinlandController.cs
- FranceController.cs
- HomeController.cs
- MaltaController.cs
- MontenegroController.cs
- ResController.cs
- RomaniaController.cs
- RussiaController.cs
- SerbiaController.cs
- SwedenController.cs
- UkraineController.cs
- UserController.cs
- VotingsController.cs
- favicons
- fonts
- fcvns
- img
- Models
- Contextclass.cs
- ModelProc.edmx
- ModelProc.Context.tt
- ModelProc.Designer.cs

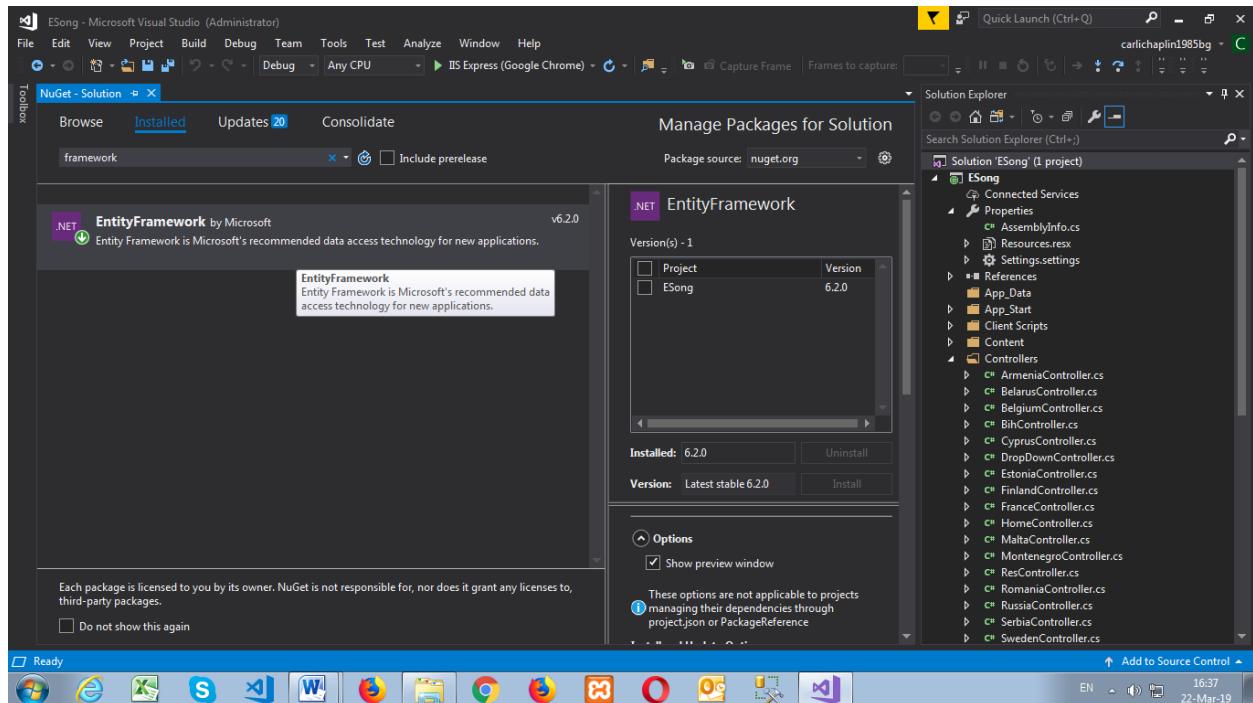
The code editor on the left contains the content of the file "IndexStrana.cshtml". The code includes HTML, CSS, and JavaScript. It features a media query for screens wider than 801px, setting the font style of the "#glasaj" class to oblique.

Prvo je potrebno uspostaviti ConnectionString i povezati se sa bazom.





Nakon toga u NuGet –u instalirati EntityFramework a kasnije i jos neke libraries.



Zatim prema bazi tj tabeli pravim model klasu Voting.cs.

The screenshot shows the Microsoft Visual Studio interface with the title bar "ESong - Microsoft Visual Studio (Administrator)". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, and Help. The toolbar below has icons for various tools like Find, Replace, and Save. The status bar at the bottom shows "Ready", "100 %", "EN", "16:39", and "22-Mar-19".

The main code editor window displays the "Voting.cs" file:

```
3  using System.ComponentModel.DataAnnotations;
4  using System.Data.SqlClient;
5  using System.ComponentModel;
6  using System.ComponentModel.DataAnnotations.Schema;
7  using System.ComponentModel.DataAnnotations.Schema;
8  using System.ComponentModel.DataAnnotations.Schema;
9  using System.ComponentModel.DataAnnotations.Schema;
10 using Esong.Models;
11 using JetBrains.Annotations;
12 using Foolproof;
13 using FluentValidation.Mvc;
14
15
16 [FluentValidation.Attributes.Validator(typeof(VotingValidacija))]
17 [Table(name: "VOTING")]
18 {
19     [Key]
20     [Required]
21     [DisplayName("The country that votes")]
22     public string ZemljeGlasaci { get; set; }
23     [Required]
24
25     [DisplayName("1 point")]
26     public string jedan { get; set; }
27     [DisplayName("2 points")]
28     public string dva { get; set; }
29     [Required]
30     public string tri { get; set; }
31     [DisplayName("3 points")]
32     [Required]
33     public string četiri { get; set; }
34     [DisplayName("4 points")]
35 }
```

The Solution Explorer on the right lists the project structure:

- Search Solution Explorer (Ctrl+Shift+F)
- ResController.cs
- RomaniaController.cs
- RussiaController.cs
- SerbiaController.cs
- SwedenController.cs
- UkraineController.cs
- UserController.cs
- VotingsController.cs
- favicons
- fonts
- fcvns
- img
- Models
 - Contextclass.cs
 - ModelProc.edmx
 - ModelProc.Context.tt
 - ModelProc.Designer.cs
 - ModelProc.edmx.diagram
 - ModelProc.tt
 - Voting.cs
 - VotingValidacija.cs
- Scripts
- Views
- ApplicationInsights.config
- favicon.ico
- Global.asax
- Global.asax.cs
- packages.config
- Web.config

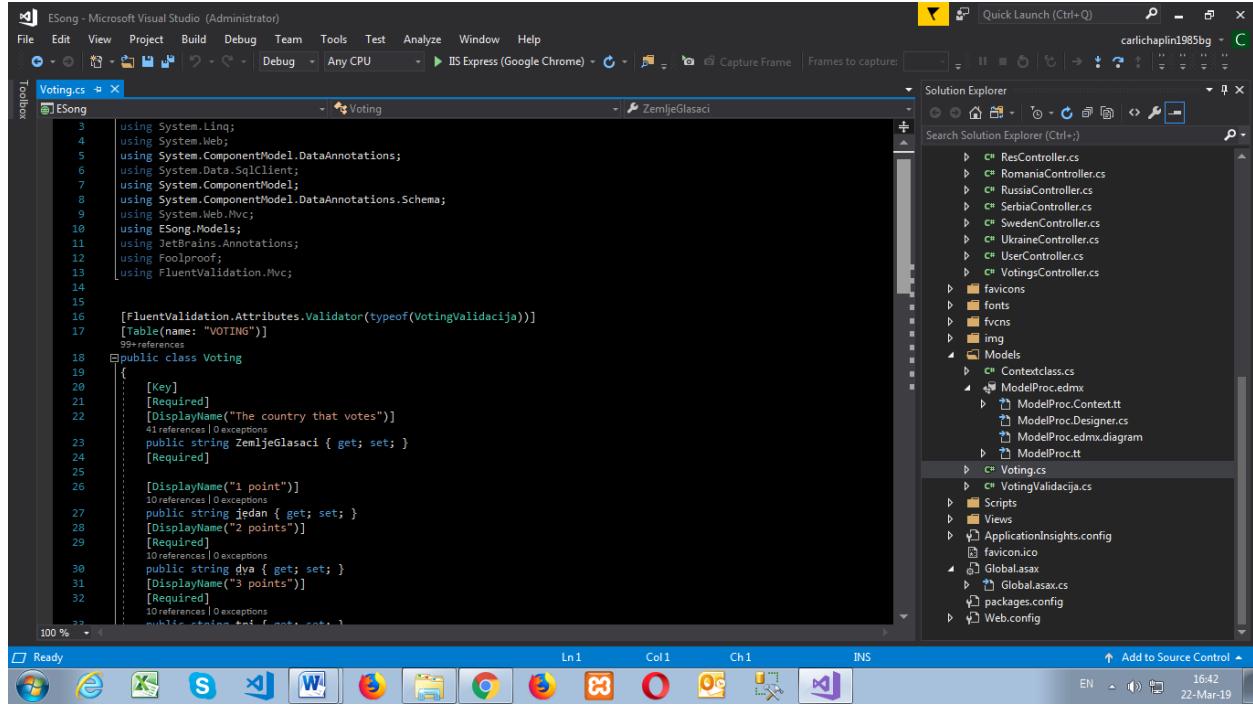
The screenshot shows the Microsoft Visual Studio interface with the title bar "ESong - Microsoft Visual Studio (Administrator)". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, and Help. The toolbar below has icons for various tools like Find, Replace, and Save. The status bar at the bottom shows "Ready", "100 %", "EN", "16:40", and "22-Mar-19".

The main code editor window displays the "Voting.cs" file, which is identical to the one in the previous screenshot but with additional lines 29 through 55 added:

```
29     [Required]
30     public string dva { get; set; }
31     [DisplayName("3 points")]
32     [Required]
33     public string tri { get; set; }
34     [DisplayName("4 points")]
35     [Required]
36     public string četiri { get; set; }
37     [DisplayName("5 points")]
38     [Required]
39     public string pet { get; set; }
40     [Required]
41     [DisplayName("6 points")]
42     public string šest { get; set; }
43     [Required]
44     [DisplayName("7 points")]
45     public string sedam { get; set; }
46     [Required]
47     [DisplayName("8 points")]
48     public string osam { get; set; }
49     [Required]
50     [DisplayName("9 points")]
51     public string devet { get; set; }
52     [Required]
53     [DisplayName("10 points")]
54     public string dvanest { get; set; }
55 }
```

The Solution Explorer on the right lists the project structure, which is identical to the one in the first screenshot.

Uočljive su brojne dataanotacije one su ovde da bi filtrirale unos kod dropdownlista kao i da bi prikazale nazive kolona.

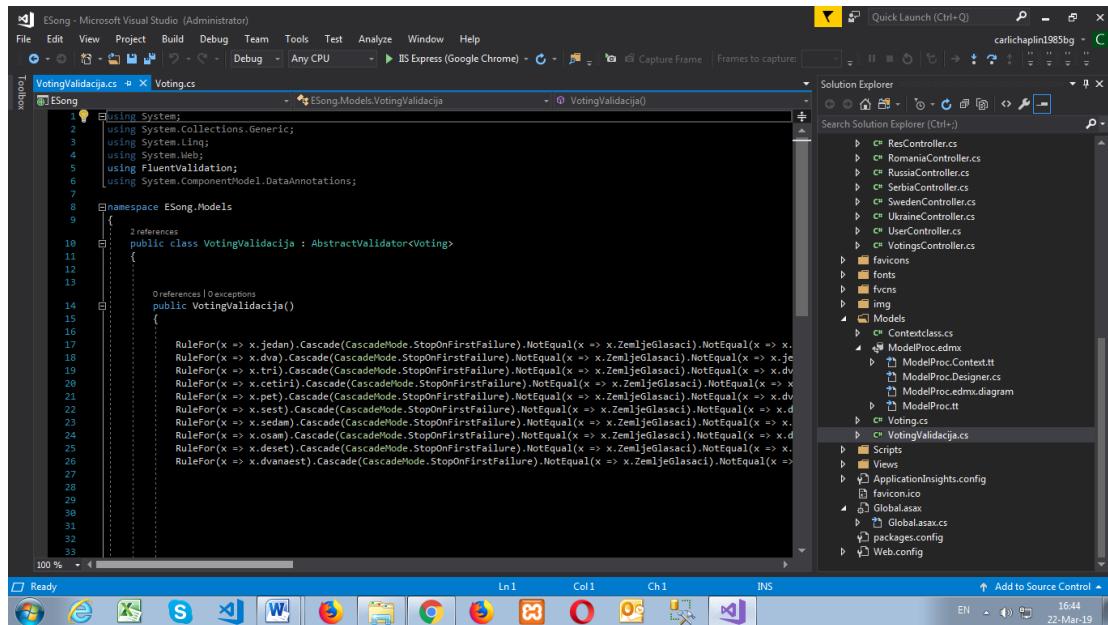


```

1 using System.Linq;
2 using System.Web;
3 using System.ComponentModel.DataAnnotations;
4 using System.Data.SqlClient;
5 using System.ComponentModel;
6 using System.ComponentModel.DataAnnotations.Schema;
7 using System.ComponentModel.DataAnnotations.Schema;
8 using System.Web.Mvc;
9 using ESong.Models;
10 using JetBrains.Annotations;
11 using Foolproof;
12 using FluentValidation.Mvc;
13
14
15
16 [FluentValidation.Attributes.Validator(typeof(VotingValidacija))]
17 [Table(name: "VOTING")]
18 public class Voting
19 {
20     [Key]
21     [Required]
22     [DisplayName("The country that votes")]
23     public string ZemljeGlasaci { get; set; }
24     [Required]
25
26     [DisplayName("1 point")]
27     public string jedan { get; set; }
28     [DisplayName("2 points")]
29     [Required]
30     public string dva { get; set; }
31     [DisplayName("3 points")]
32     [Required]
33     public string tri { get; set; }
}

```

Kao što se vidi dodata je u NuGet-u FluentValidation i zatim stavljenе anotacije kod propertisa. Napravio sam i posebnu klasu koja ogranicava da se duplira unos kroz dropdownliste.



```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using FluentValidation;
6 using System.ComponentModel.DataAnnotations;
7
8 namespace ESong.Models
9 {
10     public class VotingValidacija : AbstractValidator<Voting>
11     {
12
13         public VotingValidacija()
14         {
15
16             RuleFor(x => x.jedan).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.jedan);
17             RuleFor(x => x.dva).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.dva);
18             RuleFor(x => x.treći).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.treći);
19             RuleFor(x => x.cetiri).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.cetiri);
20             RuleFor(x => x.peta).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.peta);
21             RuleFor(x => x.sest).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.sest);
22             RuleFor(x => x.sedam).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.sedam);
23             RuleFor(x => x.osam).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.osam);
24             RuleFor(x => x.devet).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.devet);
25             RuleFor(x => x.deset).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.deset);
26             RuleFor(x => x.dvanaest).Cascade(CascadeMode.StopOnFirstFailure).NotEqual(x => x.ZemljeGlasaci).NotEqual(x => x.dvanaest);
27
28
29
30
31
32
33
}

```

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU IIS Express (Google Chrome) Capture Frame Frames to capture:

VotingValidacija.cs Voting.cs

```

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
18 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
19 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
20 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
21 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
22 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
23 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
24 > x.deset).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
25 > x.jedan).NotEqual(x => x.dvanaest).WithMessage("Please select your country for which you have not already voted!!!");
26 x => x.deset).NotEqual(x => x.jedan).WithMessage("Please select your country for which you have not already voted!!!");
27
28
29
30
31
32
33

```

Solution Explorer

- ResController.cs
- RomaniaController.cs
- RussiaController.cs
- SerbiaController.cs
- SwedenController.cs
- UkraineController.cs
- UserController.cs
- VotingsController.cs
- favicons
- fonts
- fcvns
- img
- Models
 - Contextclass.cs
 - ModelProc.edmx
 - ModelProc.Context.tt
 - ModelProc.Designer.cs
 - ModelProc.edmx.diagram
 - ModelProc.tt
 - Voting.cs
- Scripts
- Views
 - ApplicationInsights.config
 - favicon.ico
- Global.asax
 - Global.asax
 - packages.config
 - Web.config

Search Solution Explorer (Ctrl+F)

Add to Source Control

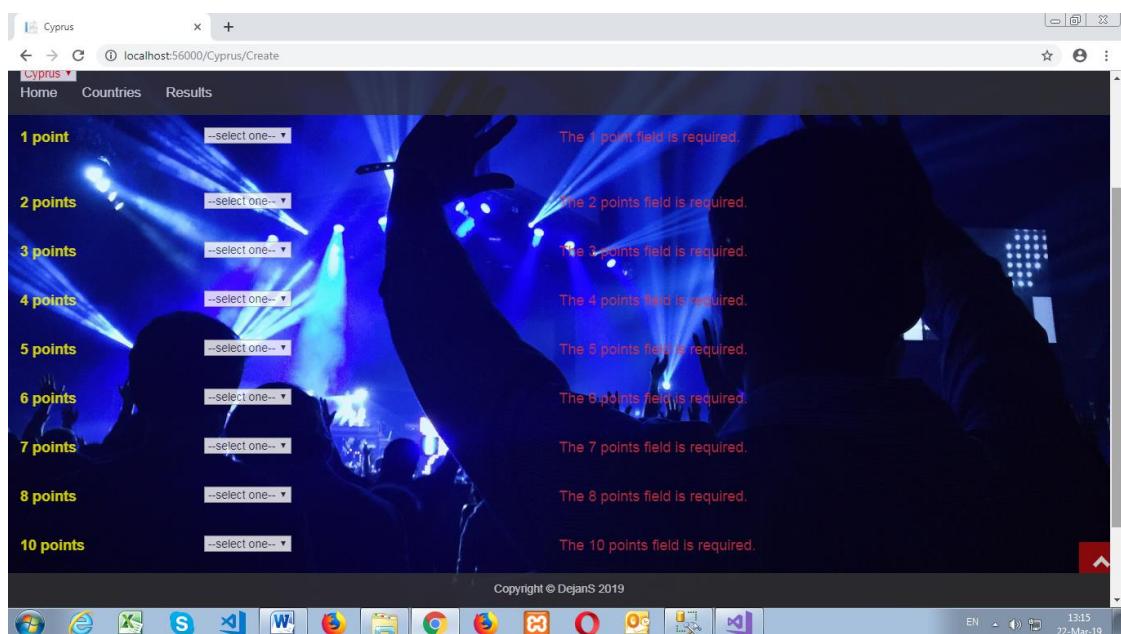
Ready

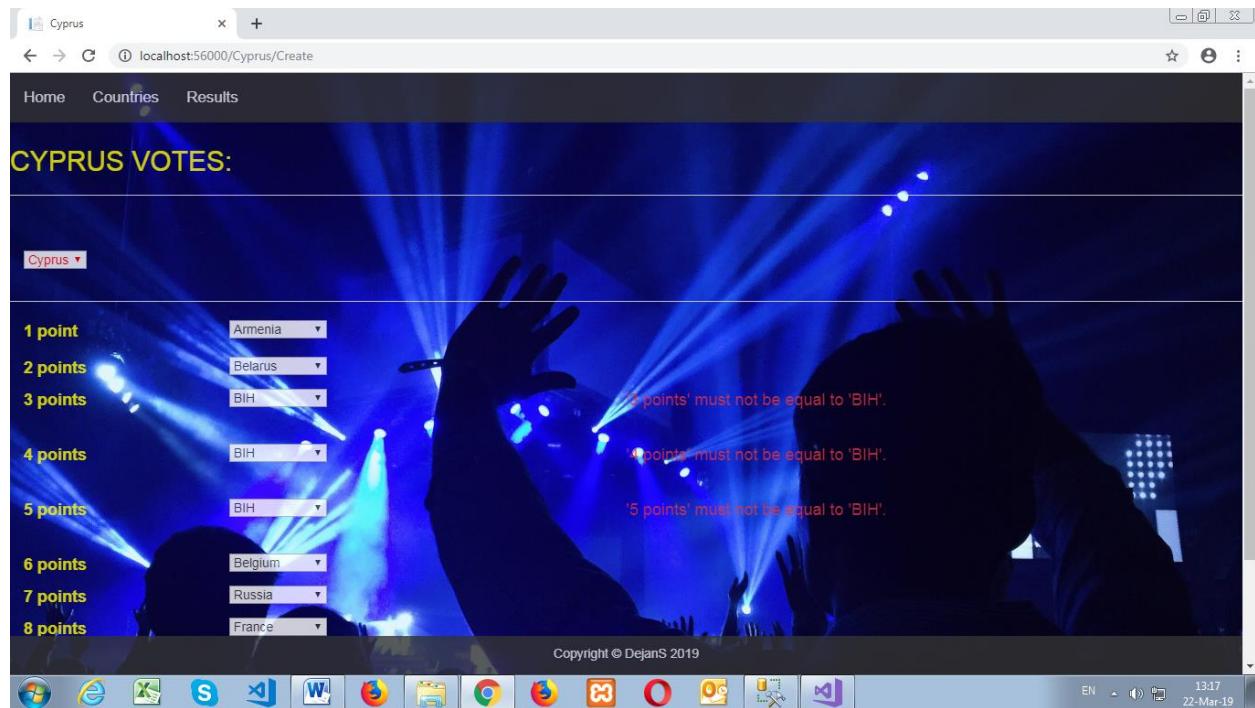
Ln1 Col1 Ch1 INS

EN 16:44 22-Mar-19

Kod u ovoj klasi VotingValidacija.cs je preko data anotacija povezan sa model klasom Voting.cs.

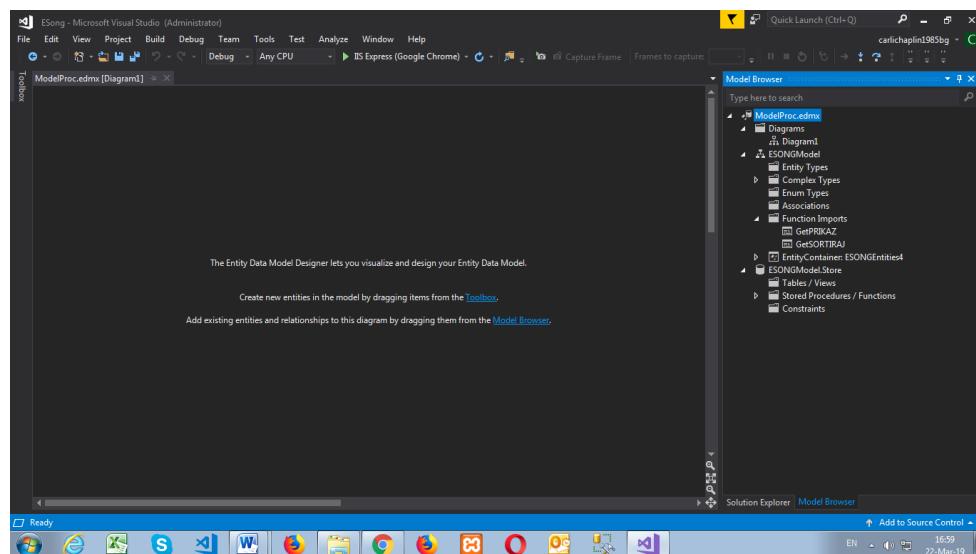
Rezultat svega toga na unosu jесу sledeći printskrinovi:



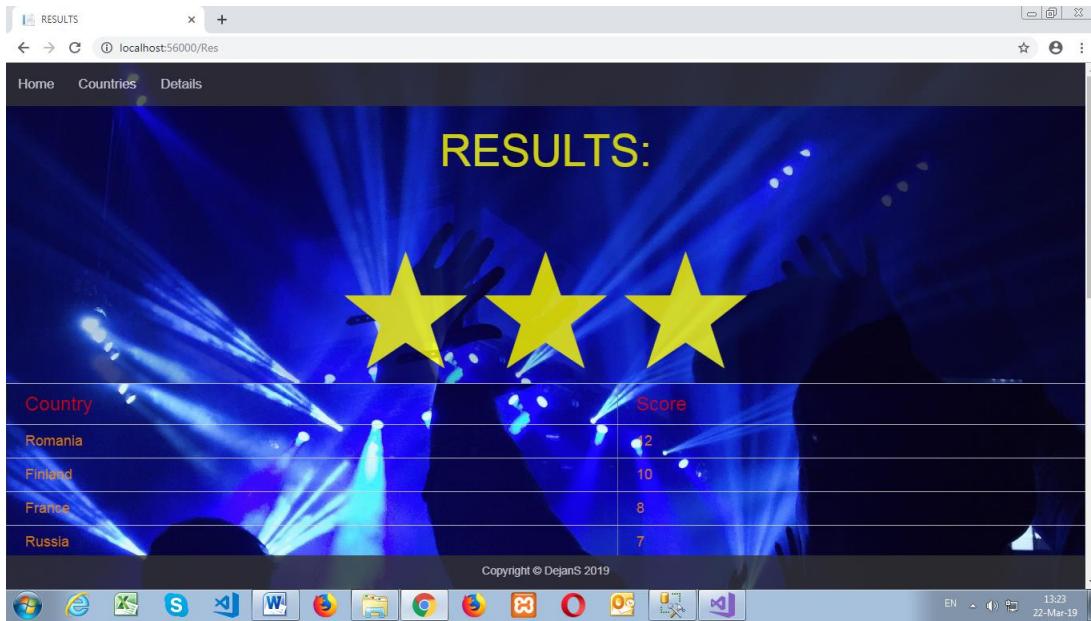


Serverskim kodom se brani dupliranje unosa posto je logika da se kod glasanja moze jedanput glasati za jednu zemlju . U primeru je uneto 15 zemalja koje mogu dobiti 1,2,3,4,5,6,7,8,10,12 poena I to zemlja koja glasa se iskljucuje od mogucnosti da sama za sebe glasa. To se postiglo sa napisanom klasom VotingValidacija.cs. Pored toga u dropdown listama se iskljucuje sama zemlja koja glasa, tako da client nema izbor da glasa za samog sebe.

Zatim sam modelom uveo procedure dbo.SORTIRAJ I dbo.PRIKAZ.



ModelBrowser daje prikaz ovih procedura koje se aktiviraju kada se klikne na link Results. Rezultat toga je sledeća situacija:



Country	Score
Armenia	1
Belgium	6
Belarus	2
BiH	3
Cyprus	0
Malta	4
Montenegro	0
Estonia	0
Finland	10
France	8
Serbia	5
Russia	7
Romania	12
Ukraine	0
Sweden	0

U View-u se dobija zapravo sortirana dbo.TABELA

Koja se updejtuje aktiviranjem ove dve procedure tj aktiviranjem linka Results

Kontroleri upravljaju vjuovima dat je prikaz jednog od kontrolera. Svaka uneta country ima svoj kontroler I vju.

```

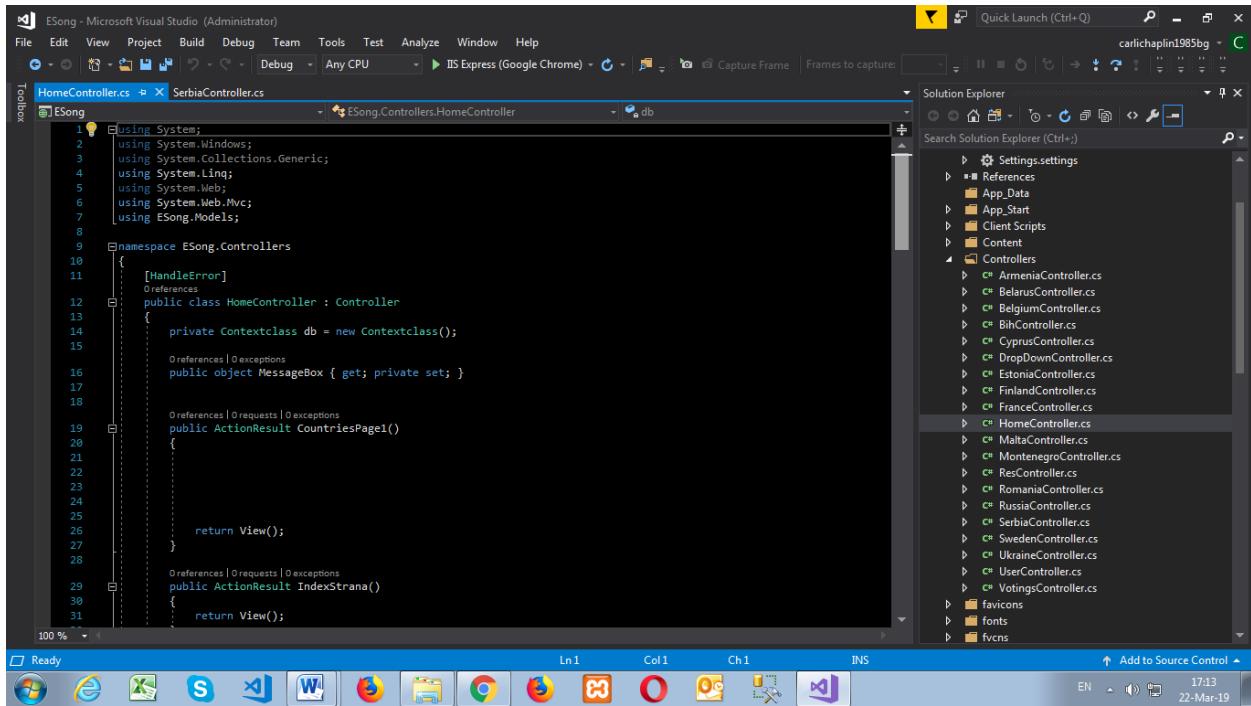
1  using System;
2  using System.Collections.Generic;
3  using System.Data;
4  using System.Data.Entity;
5  using System.Linq;
6  using System.Net;
7  using System.Web;
8  using System.Web.Mvc;
9  using ESong.Models;
10 
11 namespace ESong.Controllers
12 {
13     public class SerbiaController : Controller
14     {
15         private Contextclass db = new Contextclass();
16 
17         // GET: Serbia
18         public ActionResult Index()
19         {
20             return View(db.Votings.ToList());
21         }
22 
23         // GET: Serbia/Details/
24         public ActionResult Details(string id)
25         {
26             if (id == null)
27             {
28                 return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
29             }
30             Voting voting = db.Votings.Find(id);
31             if (voting == null)
32             {
33                 return HttpNotFound();
34             }
35             return View(voting);
36         }
37 
38         // POST: Serbia/Create
39         // To protect from overposting attacks, please enable the specific properties you want to bind to, for
40         // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
41         [HttpPost]
42         [ValidateAntiForgeryToken]
43         public ActionResult Create([Bind(Include = "ZemljeGlasaci,jedan,dva,tri,cetiri,pet,sest,sedam,osam,deset,dvanaest")] Voting voting)
44         {
45             if (ModelState.IsValid)
46             {
47                 db.Votings.Add(voting);
48                 db.SaveChanges();
49                 return RedirectToAction("Index");
50             }
51             return View(voting);
52         }
53 
54         // GET: Serbia/Edit/
55         public ActionResult Edit(string id)
56         {
57             if (id == null)
58             {
59                 return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
60             }
61             Voting voting = db.Votings.Find(id);
62             if (voting == null)
63             {
64                 return HttpNotFound();
65             }
66             return View(voting);
67         }
68 
69         // POST: Serbia/Edit/
70         [HttpPost]
71         [ValidateAntiForgeryToken]
72         public ActionResult Edit([Bind(Include = "ZemljeGlasaci,jedan,dva,tri,cetiri,pet,sest,sedam,osam,deset,dvanaest")] Voting voting)
73         {
74             if (ModelState.IsValid)
75             {
76                 db.Votings.Add(voting);
77                 db.SaveChanges();
78                 return RedirectToAction("Index");
79             }
80             return View(voting);
81         }
82 
83         // GET: Serbia/Delete/
84         public ActionResult Delete(string id)
85         {
86             if (id == null)
87             {
88                 return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
89             }
90             Voting voting = db.Votings.Find(id);
91             if (voting == null)
92             {
93                 return HttpNotFound();
94             }
95             db.Votings.Remove(voting);
96             db.SaveChanges();
97             return RedirectToAction("Index");
98         }
99 
100 
```

```

40         return View();
41     }
42 }
43 
44 // POST: Serbia/Create
45 // To protect from overposting attacks, please enable the specific properties you want to bind to, for
46 // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
47 [HttpPost]
48 [ValidateAntiForgeryToken]
49 public ActionResult Create([Bind(Include = "ZemljeGlasaci,jedan,dva,tri,cetiri,pet,sest,sedam,osam,deset,dvanaest")] Voting voting)
50 {
51     if (ModelState.IsValid)
52     {
53         db.Votings.Add(voting);
54         db.SaveChanges();
55         //return RedirectToAction("Index");
56         return RedirectToAction("CountriesPage", "Home");
57     }
58 
59     return View(voting);
60 }
61 
62 // GET: Serbia/Edit/
63 public ActionResult Edit(string id)
64 {
65     if (id == null)
66     {
67         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
68     }
69     Voting voting = db.Votings.Find(id);
70     if (voting == null)
71     {
72         return HttpNotFound();
73     }
74     return View(voting);
75 }
76 
77 // POST: Serbia/Edit/
78 [HttpPost]
79 [ValidateAntiForgeryToken]
80 public ActionResult Edit([Bind(Include = "ZemljeGlasaci,jedan,dva,tri,cetiri,pet,sest,sedam,osam,deset,dvanaest")] Voting voting)
81 {
82     if (ModelState.IsValid)
83     {
84         db.Votings.Add(voting);
85         db.SaveChanges();
86         return RedirectToAction("Index");
87     }
88     return View(voting);
89 }
90 
91 // GET: Serbia/Delete/
92 public ActionResult Delete(string id)
93 {
94     if (id == null)
95     {
96         return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
97     }
98     Voting voting = db.Votings.Find(id);
99     if (voting == null)
100 {
101     return HttpNotFound();
102 }
103     db.Votings.Remove(voting);
104     db.SaveChanges();
105     return RedirectToAction("Index");
106 }
107 
```

Centralni kontroler je HomeController.cs koji sluzi I za system notifikacija. Tacnije da bi se prikazalo stanje kakvo je svakog momenta u tabelama u bazi koristio sam Linq da bi preko varijabli I vjubegova

prenosio tu informaciju da li je neki row tj polje u tabeli popunjeno ili je null. To je kasnije bilo kljucno za javascript na samoj CountriesPage.cshtml sto rezultira da ona zemlja koja je glasala gubi na toj centralnoj strani svoj link, tj link zemlje koja je glasala nestaje. Tako se brani dvostruko glasanje za istu zemlju koje inace i nebi ni bilo moguce zbog vec uvedenih silnih dataanotacija, a i u tabeli kolone ZemljeGlasaci koja je key. Time je i system notifikacije zaokruzen i nakon refresh-a stanje na CountriesPage.cshtml je uvek isto kao sto je stanje u bazi.



The screenshot shows the Microsoft Visual Studio interface. The title bar reads "ESong - Microsoft Visual Studio (Administrator)". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, and Help. The toolbar has icons for New, Open, Save, Print, and others. The status bar at the bottom shows "Ready", "Ln1", "Col1", "Ch1", "INS", "EN", "17:13", and "22-Mar-19".

The main area displays two code files: "HomeController.cs" and "SerbiaController.cs". The "HomeController.cs" file is open and contains the following code:

```
1  using System;
2  using System.Windows;
3  using System.Collections.Generic;
4  using System.Linq;
5  using System.Web;
6  using System.Web.Mvc;
7  using ESong.Models;
8
9  namespace ESong.Controllers
10 {
11     [HandleError]
12     public class HomeController : Controller
13     {
14         private Contextclass db = new Contextclass();
15
16         public object MessageBox { get; private set; }
17
18         public ActionResult CountriesPage1()
19         {
20
21
22
23
24
25
26             return View();
27         }
28
29         public ActionResult IndexStrana()
30         {
31             return View();
32         }
33     }
34 }
```

The "Solution Explorer" window on the right lists the project structure:

- Settings.settings
- References
 - App_Data
 - App_Start
 - Client Scripts
 - Content
 - Controllers
 - ArmeniaController.cs
 - BelarusController.cs
 - BelgiumController.cs
 - BihController.cs
 - CyprusController.cs
 - DropDownController.cs
 - EstoniaController.cs
 - FinlandController.cs
 - FranceController.cs
 - HomeController.cs
 - MaltaController.cs
 - MontenegroController.cs
 - ResController.cs
 - RomaniaController.cs
 - RussiaController.cs
 - SerbiaController.cs
 - SwedenController.cs
 - UkraineController.cs
 - UserController.cs
 - VotingsController.cs
 - favicon
 - fonts
 - fvncs

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

IIS Express (Google Chrome) Capture Frame Frames to capture:

HomeController.cs SerbiaController.cs

```
30
31     return View();
32
33
34
35     [HandleError(View = "Error", ExceptionType = typeof(Exception))]
36     public ActionResult CountriesPage()
37
38     Voting voting = new Voting();
39     //provera za ukrajnu
40     var nova15 = (from a in db.Votings where a.ZemljeGlasaci == "Ukraine" select new { a.ZemljeGlasaci }).FirstOrDefault();
41     ViewBag.Nova15 = nova15;
42
43     // provera za svedsku
44     var nova14 = (from b in db.Votings where b.ZemljeGlasaci == "Sweden" select new { b.ZemljeGlasaci }).FirstOrDefault();
45     ViewBag.Nova14 = nova14;
46
47     //provera za serbia
48     var nova13 = (from c in db.Votings where c.ZemljeGlasaci == "Serbia" select new { c.ZemljeGlasaci }).FirstOrDefault();
49     ViewBag.Nova13 = nova13;
50
51     //provera za rusiju
52     var nova12 = (from d in db.Votings where d.ZemljeGlasaci == "Russia" select new { d.ZemljeGlasaci }).FirstOrDefault();
53     ViewBag.Nova12 = nova12;
54
55     //provera za rumuniju
56     var nova11 = (from e in db.Votings where e.ZemljeGlasaci == "Romania" select new { e.ZemljeGlasaci }).FirstOrDefault();
57     ViewBag.Nova11 = nova11;
58
59     //provera za francusku
60     var nova10 = (from f in db.Votings where f.ZemljeGlasaci == "France" select new { f.ZemljeGlasaci }).FirstOrDefault();
61     ViewBag.Nova10 = nova10;
62
63     //provera za finsku
```

Solution Explorer

- References
- App_Data
- App_Start
- Client Scripts
- Content
- Controllers
 - ArmeniaController.cs
 - BelarusController.cs
 - BelgiumController.cs
 - BihController.cs
 - CyprusController.cs
 - DropDownController.cs
 - EstoniaController.cs
 - FinlandController.cs
 - FranceController.cs
 - HomeController.cs
 - MaltaController.cs
 - MontenegroController.cs
 - ResController.cs
 - RomaniaController.cs
 - RussiaController.cs
 - SerbiaController.cs
 - SwedenController.cs
 - UkraineController.cs
 - UserController.cs
 - VotingsController.cs
- Favicons
- Forts
- Fvcons

Add to Source Control

Ready 17:13 22-Mar-19

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

IIS Express (Google Chrome) Capture Frame Frames to capture:

HomeController.cs SerbiaController.cs

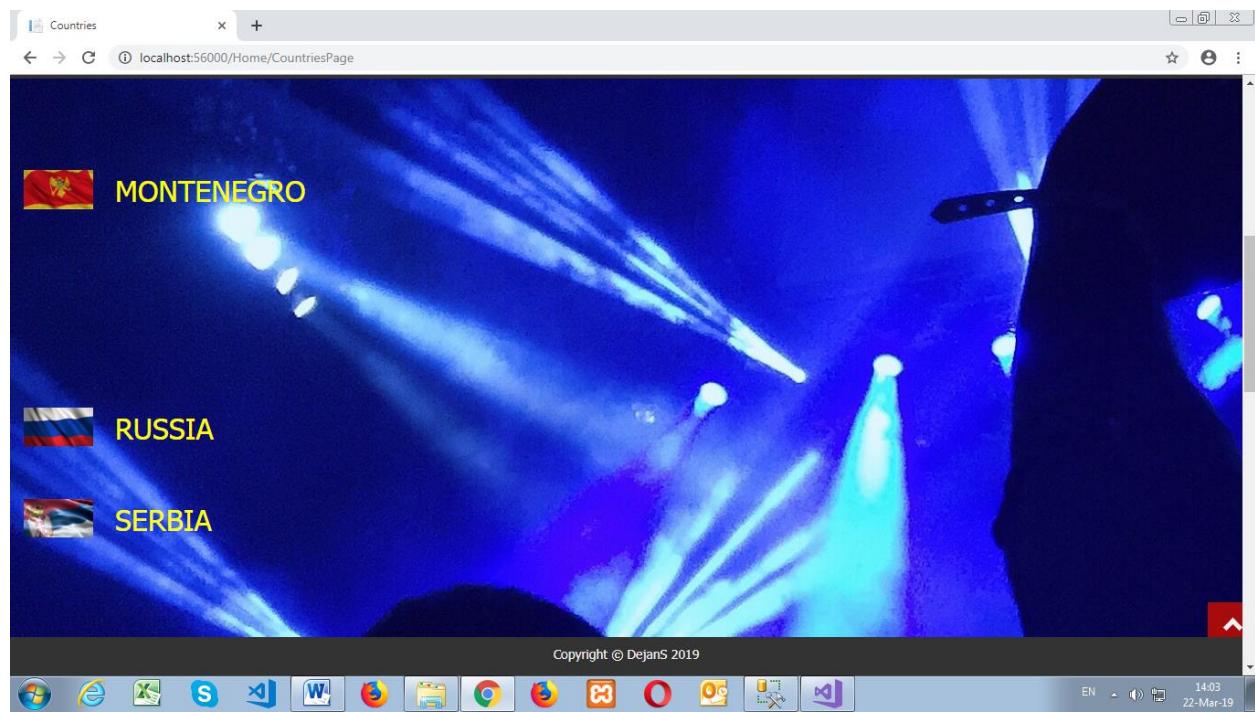
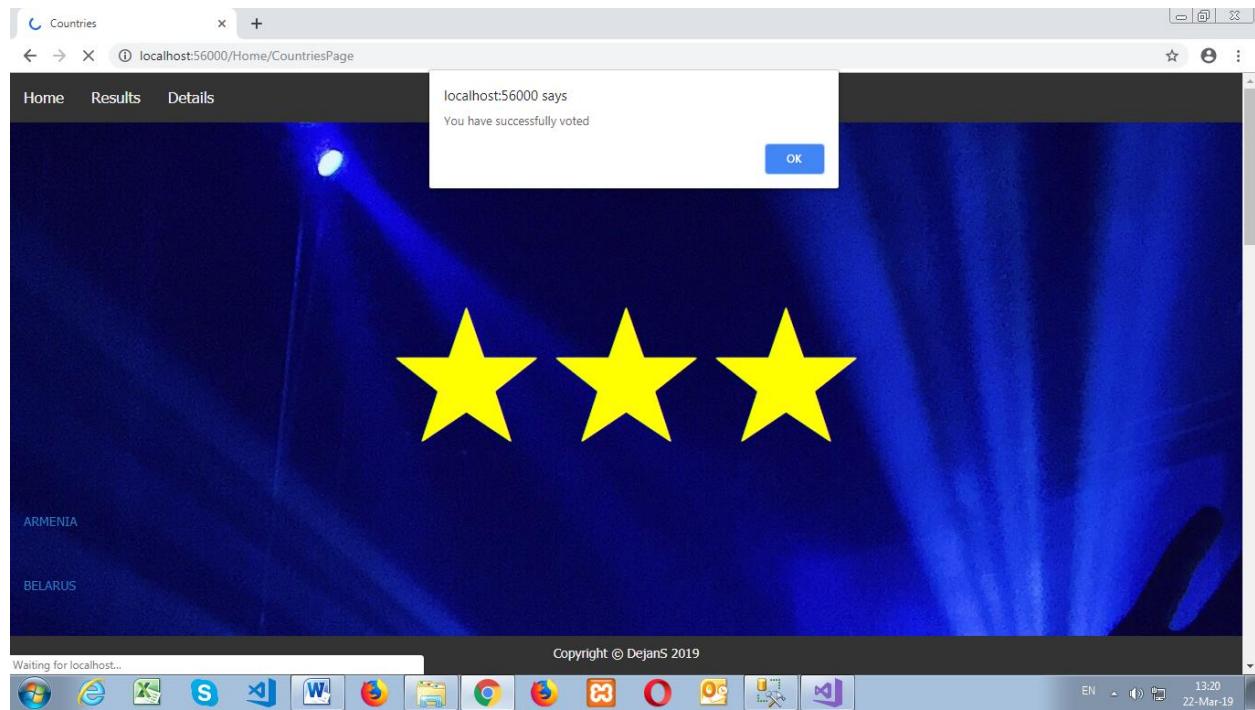
```
73
74     ViewBag.Nova7 = nova7;
75
76     //provera za malta
77     var nova6 = (from j in db.Votings where j.ZemljeGlasaci == "Malta" select new { j.ZemljeGlasaci }).FirstOrDefault();
78     ViewBag.Nova6 = nova6;
79
80     //provera za kipar
81     var nova5 = (from k in db.Votings where k.ZemljeGlasaci == "Cyprus" select new { k.ZemljeGlasaci }).FirstOrDefault();
82     ViewBag.Nova5 = nova5;
83
84     //provera za bih
85     var nova4 = (from l in db.Votings where l.ZemljeGlasaci == "BHM" select new { l.ZemljeGlasaci }).FirstOrDefault();
86     ViewBag.Nova4 = nova4;
87
88     //provera za beligiju
89     var nova4 = (from m in db.Votings where m.ZemljeGlasaci == "Belgium" select new { m.ZemljeGlasaci }).FirstOrDefault();
90     ViewBag.Nova3 = nova3;
91
92     //provera za belorusiju
93     var nova2 = (from n in db.Votings where n.ZemljeGlasaci == "Belarus" select new { n.ZemljeGlasaci }).FirstOrDefault();
94     ViewBag.Nova2 = nova2;
95
96     //provera za jermeniju
97     var nova1 = (from o in db.Votings where o.ZemljeGlasaci == "Armenia" select new { o.ZemljeGlasaci }).FirstOrDefault();
98     ViewBag.Nova1 = nova1;
```

Solution Explorer

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 - FranceController.cs
 - HomeController.cs
 - MaltaController.cs
 - MontenegroController.cs
 - ResController.cs
 - RomaniaController.cs
 - RussiaController.cs
 - SerbiaController.cs
 - SwedenController.cs
 - UkraineController.cs
 - UserController.cs
 - VotingsController.cs
- Favicons
- Forts
- Fvcons

Add to Source Control

Ready 17:13 22-Mar-19



Vjuovi koriste razlicite lejaute, primer nekih dajem u sledecim print screen-ovima.

The screenshot shows the Microsoft Visual Studio interface. The title bar reads "ESong - Microsoft Visual Studio (Administrator)". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, Help. The toolbar below has icons for various tools like Task List, Find, Replace, and Document Outline. The code editor window displays the file "_zglasanje.cshtml" with the following content:

```
<!DOCTYPE html>
<html>
    <head>
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>RESULTS</title>
    </head>
    <body>
        <link rel="stylesheet" href="~/Scripts/bootstrap.min.css">
        <script src="~/Scripts/jquery.min.js"></script>
        <script src="~/Scripts/bootstrap.min.js"></script>
        <script src="~/Scripts/jquery-3.3.1.min.js"></script>
        <script src="~/Scripts/jquery.js"></script>
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
        <script src="~/Url.Content("https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js")"></script>
        <script src="~/Url.Content("https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js")"></script>
        <style>
            .footer {
                position: fixed;
                left: 0;
                bottom: 0;
                width: 100%;
                height: 42px;
                background-color: #333;
                color: #f2f2f2;
                text-align: center;
                opacity: 5;
            }
            .scrolltop {
                display: none;
                width: 100px;
                color: #f1f1f1;
                background-color: #f1f1f1;
            }
        </style>
    </body>

```

The Solution Explorer on the right lists files such as Finland.cshtml, France.cshtml, Home.cshtml, Malta.cshtml, Montenegro.cshtml, Res.cshtml, Romania.cshtml, Russia.cshtml, Serbia.cshtml, Shared/_Layout.cshtml, Shared/zadetaje.cshtml, Shared/zadropboxe.cshtml, Shared/_zglasanje.cshtml, CountriesPage.cshtml, Error.cshtml, Sweden.cshtml, Ukraine.cshtml, User/Index.cshtml, User/Votings.cshtml, and Global.asax.

This screenshot shows the same Microsoft Visual Studio interface as the previous one, but the code editor now displays a more complete version of the CSS for the scrolltop element:

```
        .scrolltop {
            position: absolute;
            right: 10px;
            left: -10px;
            bottom: 20px;
            background: #b2b2b2;
            background: rgba(178,178,178,0.7);
            padding: 20px;
            text-align: center;
            margin: 0 0 0;
            cursor: pointer;
            transition: 0.5s;
            -moz-transition: 0.5s;
            -webkit-transition: 0.5s;
            -o-transition: 0.5s;
        }

        .scroll {
            position: absolute;
            right: 10px;
            left: -10px;
            bottom: 20px;
            background: #b2b2b2;
            background: rgba(178,178,178,0.7);
            padding: 20px;
            text-align: center;
            margin: 0 0 0;
            cursor: pointer;
            transition: 0.5s;
            -moz-transition: 0.5s;
            -webkit-transition: 0.5s;
            -o-transition: 0.5s;
        }

        .scroll:hover {
            background: rgba(178,178,178,1.0);
            transition: 0.5s;
            -moz-transition: 0.5s;
            -webkit-transition: 0.5s;
            -o-transition: 0.5s;
        }

        .scroll:hover .fa {
            padding-top: -10px;
        }

```

The Solution Explorer on the right is identical to the first screenshot, listing the same files.

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

IIS Express (Google Chrome) Capture Frame Frames to capture:

Solution Explorer

zaglasanje.cshtml

```
127 }  
128 </style>  
129 </head>  
130 <body style="background-image:url('/img/melissa-askew-15335-unplash.jpg');background-size:100%;background-size:cover;opacity:0.8;>  
131 <div id="thetop"></div>  
132 <div id="section1" class="container-fluid" style="background-image:url('/img/melissa-askew-15335-unplash.jpg');background-size:100%;background-size:cover;opacity:0.8;>  
133 <div id="thetop"></div><br /><br />  
134 <h1 style="color:yellow;font-size:55px;text-align:center;left:400px;RESULTS:</h1>  
135 <div id="zvezda">  
136 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
137 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
138 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
139 </div>  
140 <div id="section2">  
141 <RenderBody()>  
142 </div>  
143 <div id="section3" class="container-fluid" style="background-image:url('/img/melissa-askew-15335-unplash.jpg');background-size:100%;background-size:cover;opacity:0.8;>  
144 <div id="zvezda">  
145 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
146 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
147 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
148 </div>  
149 <div id="zvezda">  
150 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
151 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
152 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
153 </div>  
154 <div id="zvezda">  
155 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
156 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
157 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
158 </div>  
159 <div id="zvezda">  
160 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
161 <span style="font-size:1500%;color:yellow;">&bigstar;</span>  
162 </div>
```

100 %

Ready IIS Express (Google Chrome) Capture Frame Frames to capture:

EN 20:11 22-Mar-19

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

IIS Express (Google Chrome) Capture Frame Frames to capture:

Solution Explorer

zaglasanje.cshtml

```
172 <script>  
173 var prevScrollpos = window.pageYOffset;  
174 window.onscroll = function () {  
175     var currentScrollPos = window.pageYOffset;  
176     if (prevScrollpos > currentScrollPos) {  
177         document.getElementById("navbar").style.top = "0";  
178     } else {  
179         document.getElementById("navbar").style.top = "-50px";  
180     }  
181     prevScrollpos = currentScrollPos;  
182 }  
183 </script>  
184 <script>  
185 $(window).scroll(function () {  
186     if ($(this).scrollTop() > 50) {  
187         $('.scrolltop').stop(true, true).fadeIn();  
188     } else {  
189         $('.scrolltop').stop(true, true).fadeOut();  
190     }  
191 });  
192 $(function () {  
193     $(".scroll").click(function () {  
194         $("html,body").animate({ scrollTop: $(".thetop").offset().top },  
195         500);  
196     })  
197 }  
198 </body>  
199 </html>
```

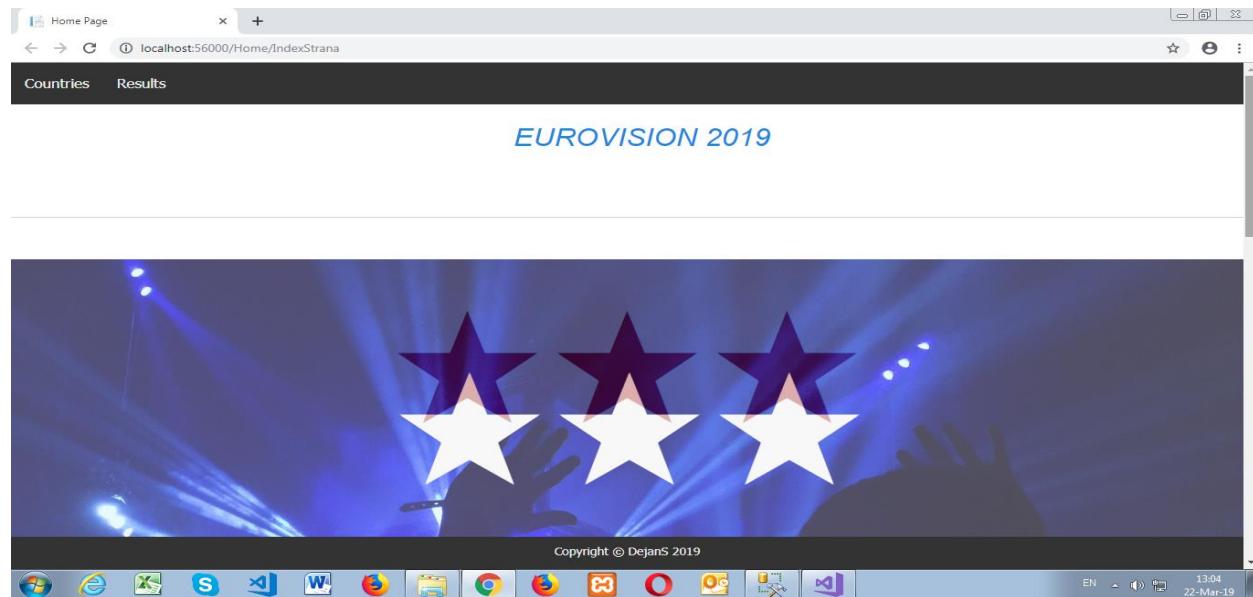
100 %

Ready IIS Express (Google Chrome) Capture Frame Frames to capture:

EN 20:12 22-Mar-19

4. Testiranje aplikacije

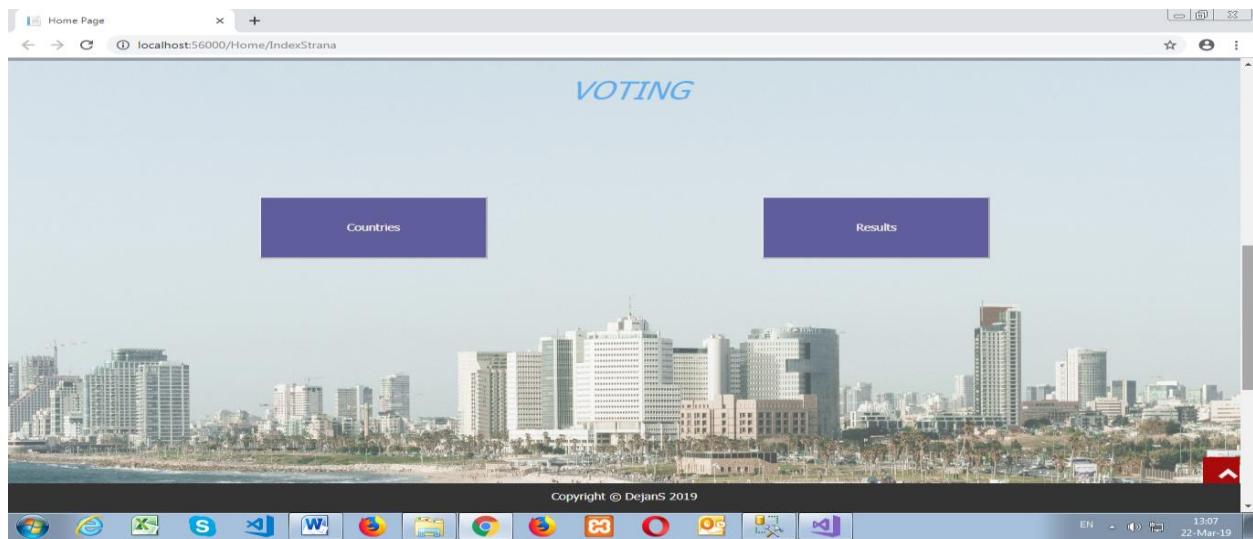
Prateći hronoloski redosled, sada testiramo aplikaciju. Prva strana nam je data rutom localhost:56000/Home/IndexStrana. Home je kontroler, a IndexStrana je naziv akcionog metoda koji otvara istoimeni View.



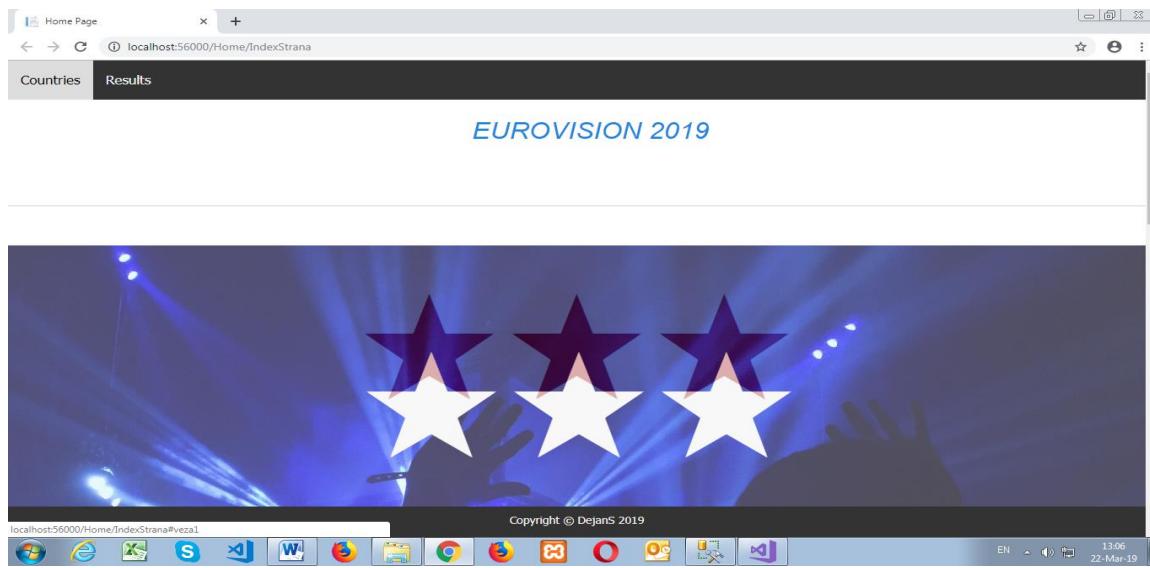
Navigacijom odlazimo na donji deo stranje gde se nalaze dva dugmeta, koji su zapravo linkovi napisani u

A screenshot of the Microsoft Visual Studio code editor. The file being edited is 'Index.cshtml' located in the 'Views/Home' folder. The code is written in Razor syntax, showing HTML tags and C# code within them. The editor has a dark theme and shows line numbers on the left. The status bar at the bottom indicates the file is 'Ready' and shows the date '22 Mar 19'.

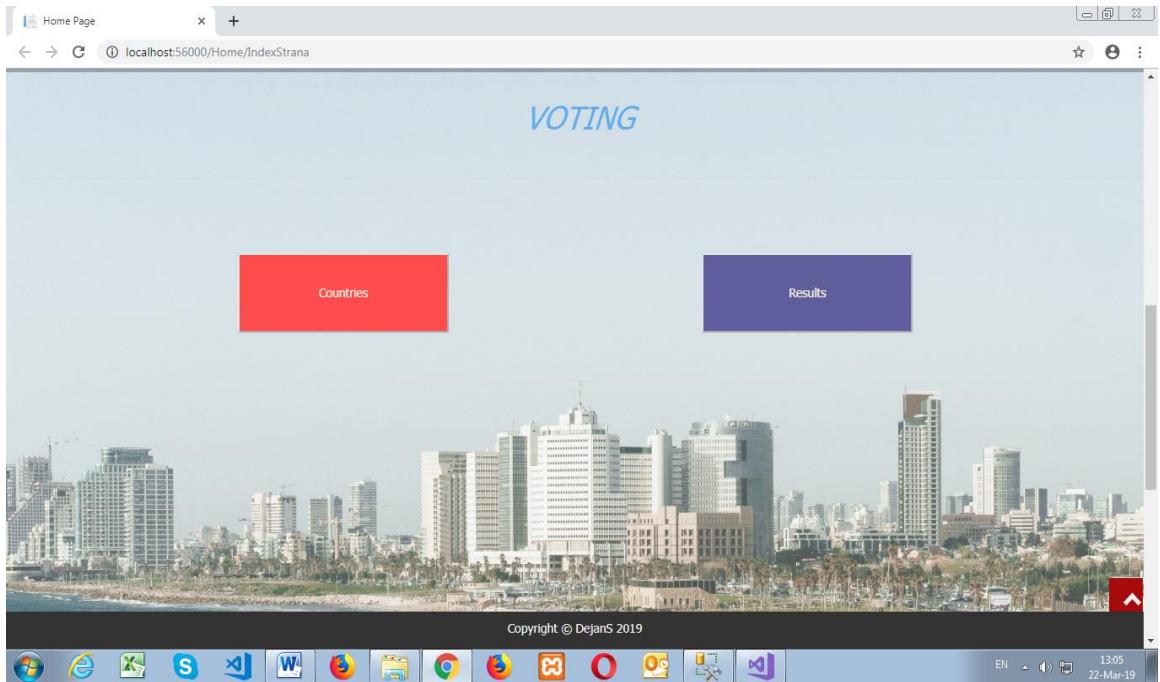
razor sintaksi.



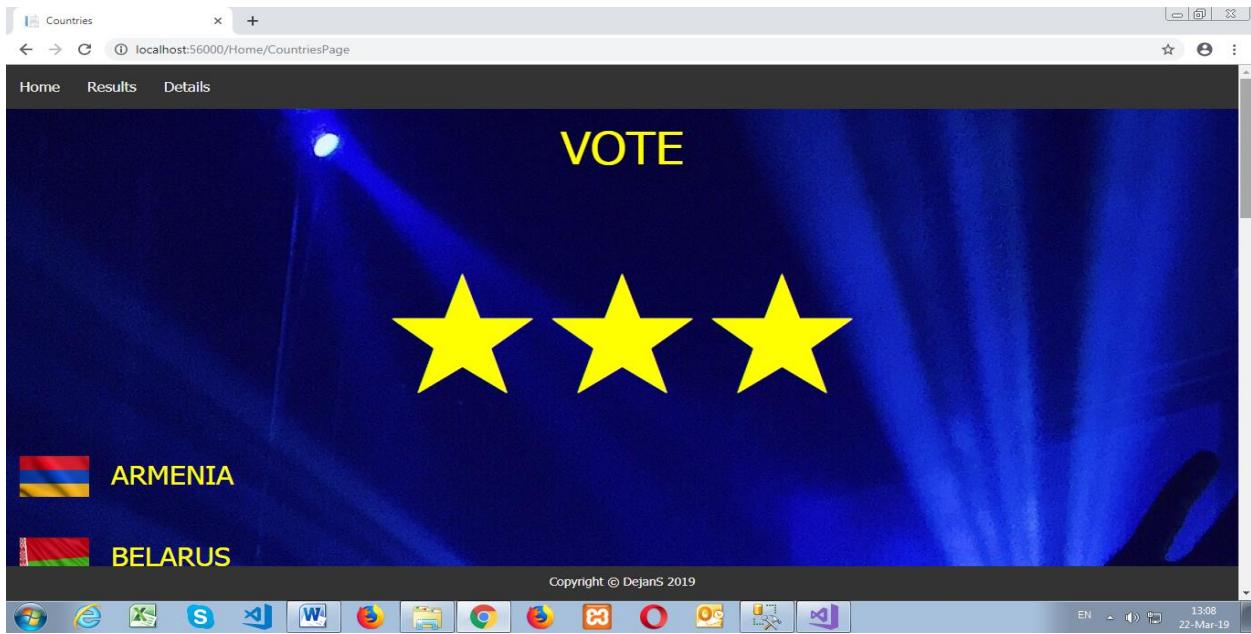
Navigacija u hederu vodi samo do linkova na istoj prvoj IndexStrani.cshtml strani.

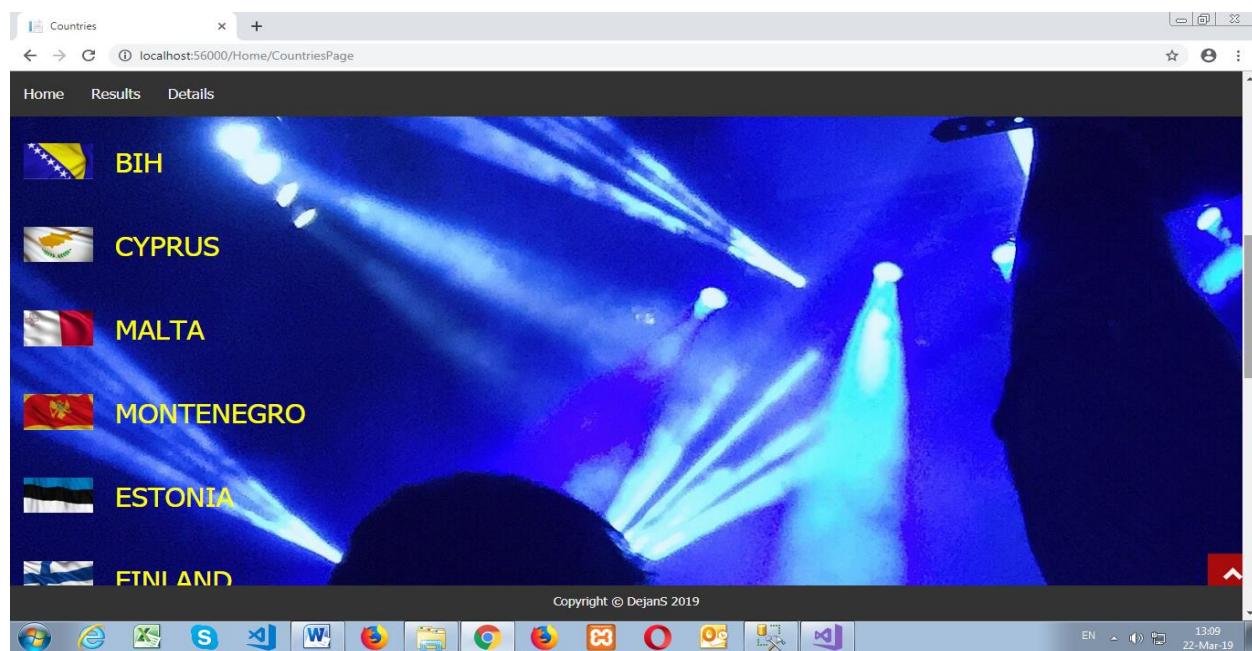
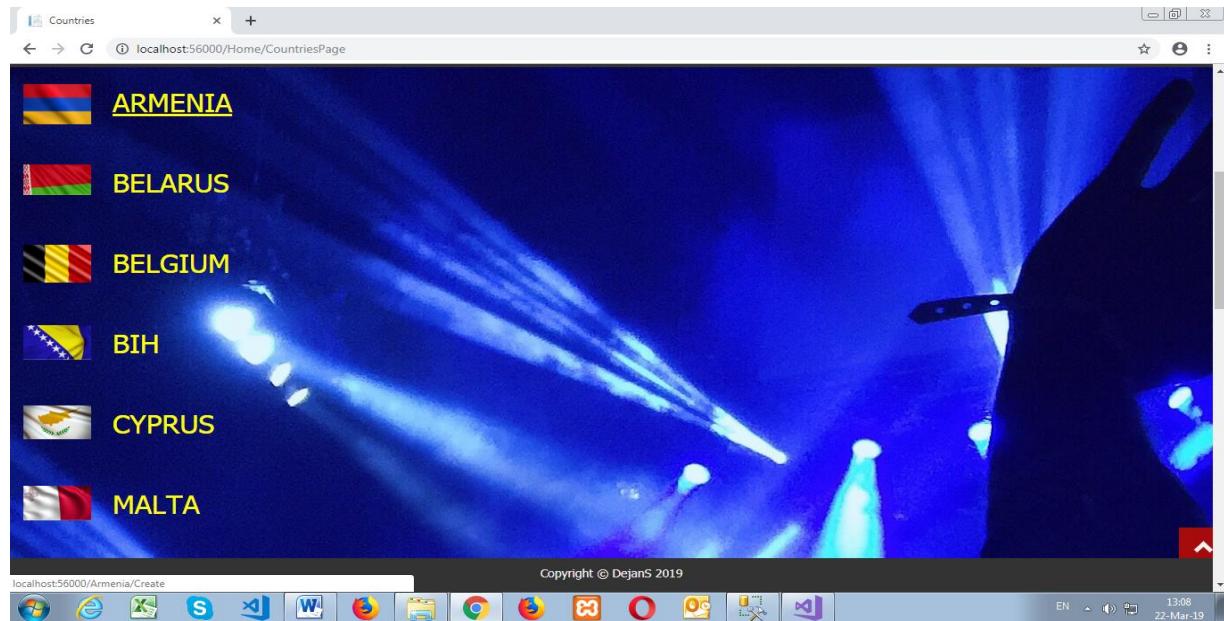


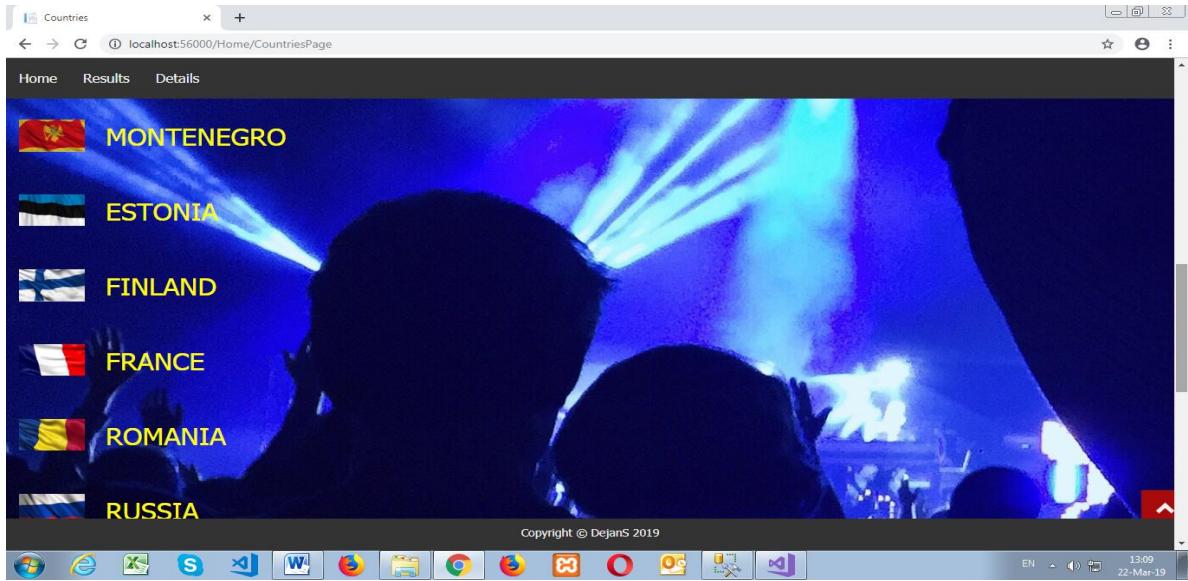
Mouseover daje malo dinamike.



Sada smo na strani CountriesPage.cshtml

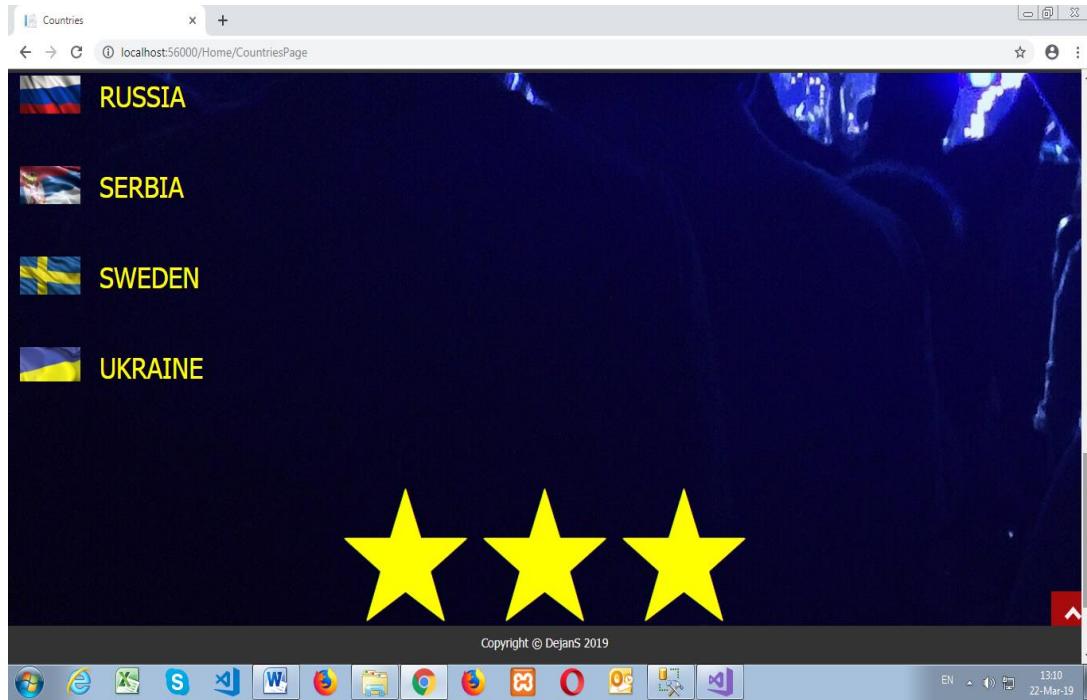






Prikaz samo dela koda ove strane koja je kljucna za glasanje.

```
ESong - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Test Analyze Window Help
File Open Solution Tools Help Any CPU IIS Express (Google Chrome) Capture Frame Frames to capture
CountriesPage.cshtml < IndexStrana.cshtml > _zglasanje.cshtml
283     <p id="test1">@Html.ActionLink("ARMENIA", "Create", "Armenia", null, null, null, null, new { @class = "newimage" })</p>
284     <br /><br />
285
286
287     <p id="test2">@Html.ActionLink("BELARUS", "Create", "Belarus", null, null, null, null, new { @class = "newimage1" })</p>
288     <br />
289     <br />
290     <p id="test3">@Html.ActionLink("BELGIUM", "Create", "Belgium", null, null, null, null, new { @class = "newimage2" })</p>
291     <br />
292     <br />
293     <p id="test4">@Html.ActionLink("BIH", "Create", "Bih", null, null, null, null, new { @class = "newimage3" })</p>
294     <br />
295     <br />
296     <p id="test5">@Html.ActionLink("CYPRUS", "Create", "Cyprus", null, null, null, null, new { @class = "newimage4" })</p>
297     <br />
298     <br />
299     <p id="test6">@Html.ActionLink("MALTA", "Create", "Malta", null, null, null, null, new { @class = "newimage5" })</p>
300     <br />
301     <br />
302     <p id="test7">@Html.ActionLink("MONTENEGRO", "Create", "Montenegro", null, null, null, null, new { @class = "newimage6" })</p>
303     <br />
304     <br />
305     <p id="test8">@Html.ActionLink("ESTONIA", "Create", "Estonia", null, null, null, null, new { @class = "newimage7" })</p>
306     <br />
307     <br />
308     <p id="test9">@Html.ActionLink("FINLAND", "Create", "Finland", null, null, null, null, new { @class = "newimage8" })</p>
309     <br />
310     <br />
311     <p id="test10">@Html.ActionLink("FRANCE", "Create", "France", null, null, null, null, new { @class = "newimage9" })</p>
312     <br />
313     <br />
314     <p id="test11">@Html.ActionLink("ROMANIA", "Create", "Romania", null, null, null, null, new { @class = "newimage10" })</p>
315     <br />
316     <br />
317     <p id="test12">@Html.ActionLink("RUSSIA", "Create", "Russia", null, null, null, null, new { @class = "newimage11" })</p>
318     <br />
```



Deo napisanog koda iste strane.

ESong - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Quick Launch (Ctrl+Q) carlichaplin1985bg

CountriesPage.cshtml IndexStrana.cshtml _zglasanje.cshtml

```
753
754     window.onload = function () {
755         alert("You have successfully voted")
756     };
757
758     document.getElementById("test15").remove();
759
760 
```

761 </script>

762

763

764 if (ViewBag.Nova15 != null && ViewBag.Nova14 != null && ViewBag.Nova13 != null && ViewBag.Nova12 != null && ViewBag.Nova11 != null &

765

766 <script type="text/javascript">

767

768 window.onload = function () {
769 alert("All countries voted, congratulations!!!!")
770 };
771
772 document.getElementById("kraj").remove();
773 document.getElementById("prikazi").style.display = "block";
774
775
776

777 </script>

778

779

780 <script>
781 var prevScrollpos = window.pageYOffset;
782 window.onscroll = function () {
783 var currentScrollPos = window.pageYOffset;
784 if (prevScrollpos > currentScrollPos) {
785 document.getElementById("navbar").style.top = "0";
786 } else {
787 document.getElementById("navbar").style.top = "-50px";
788 }
789 }
790 </script>

100% 4

Ready

LN1 Col1 CH1 INS

Add to Source Control

Solution Explorer

Search Solution Explorer (Ctrl+F)

Armenia Belarus Belgium BH Cyprus DropDownList Estonia Finland France Home Malta Montenegro Res Romania Russia Serbia Shared Layout.cshtml _zadetajte.cshtml _zdrobovove.cshtml _zglasanje.cshtml CountriesPage.cshtml Error.cshtml Sweden Ukraine

EN 20:49 22-Mar-19

Sada biramo jednu od zemalja i ActionLink nas vodi na sledecu stranu za glasanje

A screenshot of a web browser window titled "Countries". The URL is "localhost:56000/Home/CountriesPage". The page displays a list of countries with their flags and names: BELGIUM, BIH, CYPRUS, MALTA, MONTENEGRO, and ESTONIA. The background features a dark blue stage with bright spotlights. At the bottom of the page, there is a copyright notice: "Copyright © DejanS 2019". The taskbar at the bottom shows various application icons.

A screenshot of a web browser window titled "Cyprus". The URL is "localhost:56000/Cyprus/Create". The page has a header with "Home", "Countries", and "Results" links. Below the header, it says "CYPRUS VOTES:". A dropdown menu is open, showing "Cyprus ▾". On the left, there is a vertical list of point values: "1 point", "2 points", "3 points", "4 points", "5 points", "6 points", "7 points", "8 points", "10 points", and "12 points". To the right of each value is a dropdown menu labeled "--select one--". The background features silhouettes of people's hands raised against a dark stage with blue lights. At the bottom, there is a copyright notice: "Copyright © DejanS 2019". The taskbar at the bottom shows various application icons.

Dropdown listama biramo zeljene zemlje za odredjene poene.

The screenshot shows the Microsoft Visual Studio interface with the following details:

- Title Bar:** ESong - Microsoft Visual Studio (Administrator)
- Toolbox:** Standard .NET development tools.
- Solution Explorer:** Shows the project structure under "carlichaplin1985bg".
- Code Editor:** Displays the code for `Create.cshtml`. The code includes HTML and C# code for creating dropdown lists for countries. It uses `Html.DropDownListFor` and `new SelectList` to bind data to dropdowns. The dropdowns are labeled "ZemljeGlasaci" and "jedan". Validation messages are also included.
- Status Bar:** Shows the date and time (22-Mar-19, 20:52).

Ovo je deo koda sa strane odrenjene zemlje sa koje se unose podatci u bazu tabele

The screenshot shows the Microsoft Visual Studio interface with the following details:

- Title Bar:** ESong - Microsoft Visual Studio (Administrator)
- Toolbox:** Standard .NET development tools.
- Solution Explorer:** Shows the project structure under "carlichaplin1985bg".
- Code Editor:** Displays the code for `Create.cshtml`. The code is identical to the one in the previous screenshot, showing the creation of dropdown lists for countries using `Html.DropDownListFor` and `new SelectList`.
- Status Bar:** Shows the date and time (22-Mar-19, 20:54).

Koriste se `I htmlAttributes` u razor sintaksi.

Kao I vezani lejaut.

```
ESong - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Quick Launch (Ctrl+Q) carlichaplin1985bg C
Solution Explorer
Search Solution Explorer (Ctrl+.)
Belgium
Bih
Cyrus
Create.cshtml
DropDown
Estonia
Finland
France
Home
CountriesPage.cshtml
CountriesPage1.cshtml
Index.cshtml
IndexStrana.cshtml
Malta
Montenegro
Res
Romania
Russia
Serbia
Shared
Layout.cshtml
_zadetajte.cshtml
_zadropboxve.cshtml
_zaglasanje.cshtml
CountriesPage.cshtml
Error.cshtml
Sweden
Ukraine
Create.cshtml
User
Index.cshtml
zadropboxve.cshtml Create.cshtml IndexStrana.cshtml _zaglasanje.cshtml
226
227
228
229
230 <body style="background-image:url('/img/melissa-askew-15335-unsplash.jpg');background-size:100%;background-size:cover;opacity:0.8;">
231
232
233     <div id="navbar">
234         <a href="@Url.Action("IndexStrana", "Home")">Home</a>
235         <a href="@Url.Action("CountriesPage", "Home")">Countries</a>
236         <a href="@Url.Action("Index", "Res")">Results</a>
237     </div>>br /><br />
238     <div class="thetop"></div>
239
240     <div> @RenderBody() </div><br />
241
242     <div> @RenderSection("scripts", required: false)</div>
243     <div class="scrolltop" style="display: none;!important">
244         <div class="scroll icon" style="width:3px;height:3px;margin-right:2px;margin-left:2px;background-color:rgb(167, 11, 11);"><i class="fa fa-angle-up" style="font-size:10px; color: inherit; opacity: 0.5; font-weight: bold; font-style: normal; font-variant: normal; line-height: 1; vertical-align: middle; transition: all 0.3s ease-in-out; transform: rotate(-90deg);></i></div>
245     </div>
246
247
248
249
250
251
252
253     <div class="footer">
254         <p style="margin: 9px;">
255             Copyright © Dejan's 2019
256         </p>
257     </div>
258
259     <script>
260         var prevScrollpos = window.pageYOffset;
261         window.onscroll = function () {
```

Krecemo sa glasanjem..

Cyprus

CYPRUS VOTES:

Cyprus

1 point

2 points

3 points

4 points

5 points

6 points

7 points

8 points

10 points

12 points

VOTE

Copyright © DejanS 2019

FluentValidation na delu, ne dozvoljava duplirani unos. Validacione poruke nas upozoravaju.

Cyprus

CYPRUS VOTES:

Cyprus

1 point Armenia

2 points Belarus

3 points Belgium

4 points Ukraine

5 points Montenegro

6 points Belgium

7 points Russia

8 points France

10 points Finland

12 points Romania

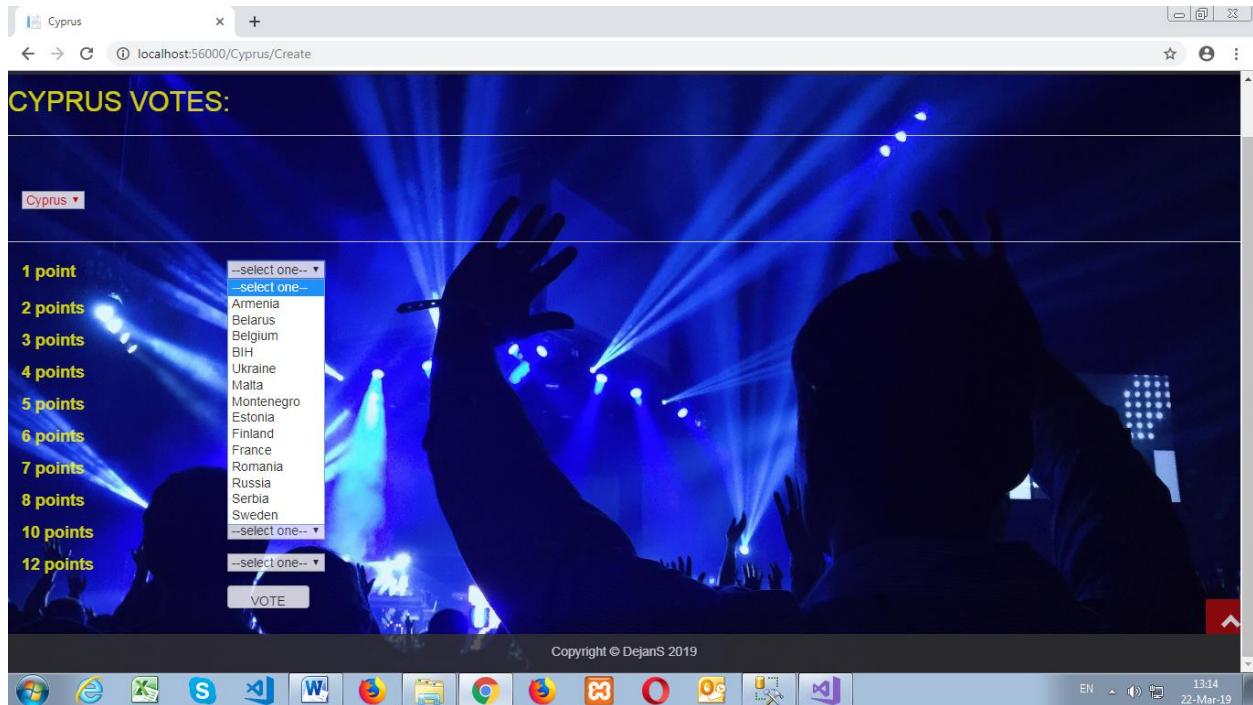
VOTE

'3 points' must not be equal to 'Belgium'.

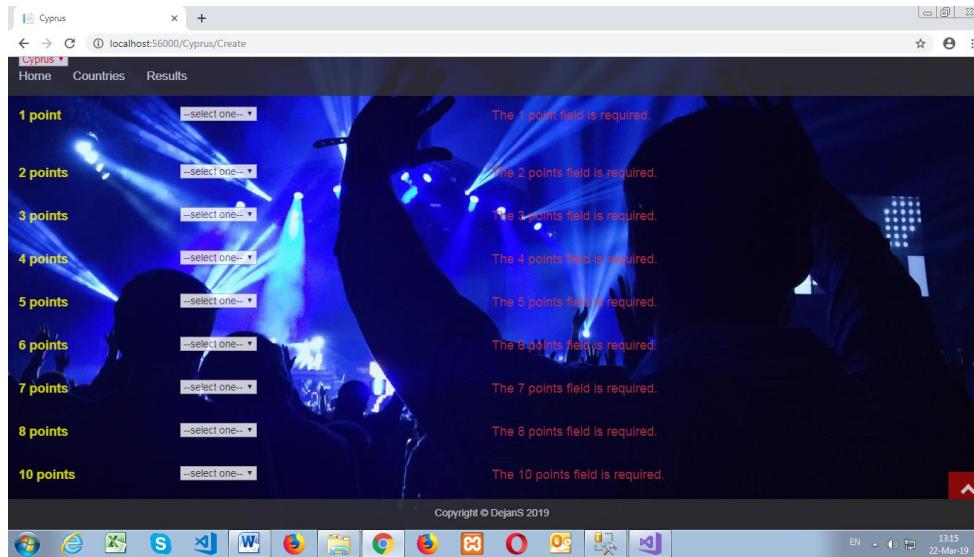
'6 points' must not be equal to 'Belgium'.

Copyright © DejanS 2019

Korektno unosimo.



Cak I da ne unesemo a kliknemo VOTE imamo validacione poruke koje nas vracaju I traze korektan unos.



Ponovo je potrebno da ispravimo unos tj odabir sa lista.

Cyprus

Cyprus ▾

1 point Armenia

2 points Belarus

3 points BIH

4 points Malta

5 points Finland

6 points Belgium

7 points Russia

8 points France

10 points Finland

12 points Romania

VOTE

'3 points' must not be equal to 'BIH'.
'4 points' must not be equal to 'BIH'.
'5 points' must not be equal to 'BIH'.

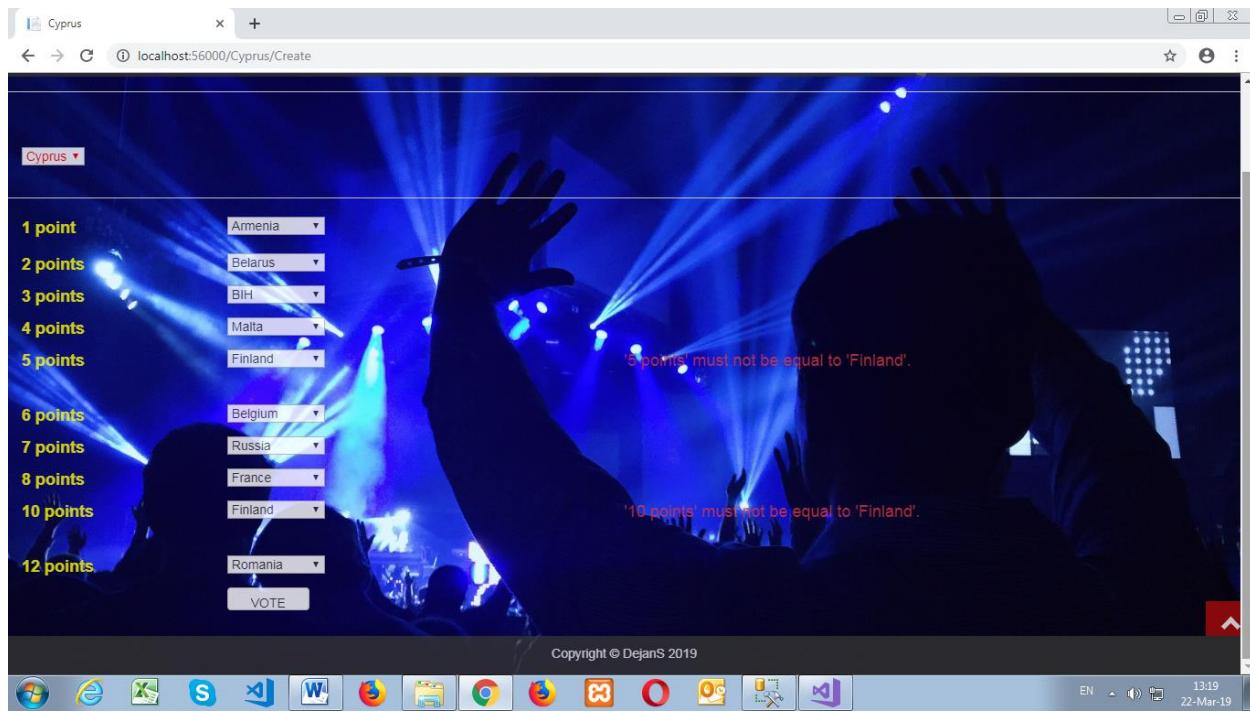
Treba pristupiti korekciji.

The screenshot shows a web browser window with the title "Cyprus" and the URL "localhost:56000/Cyprus/Create". The page header includes "Home", "Countries", and "Results" links. The main content area has a dark background with a silhouette of hands raised against a blue light show. The text "CYPRUS VOTES:" is displayed in yellow at the top left. A dropdown menu labeled "Cyprus" is open. On the left, a list of point values (1, 2, 3, 4, 5, 6, 7, 8) is paired with dropdown menus containing country names. Validation errors are shown in red: "'3 points' must not be equal to 'BIH'" for the 3-point row, "'4 points' must not be equal to 'BIH'" for the 4-point row, and "'5 points' must not be equal to 'BIH'" for the 5-point row. The bottom of the screen shows a taskbar with various icons and the system tray.

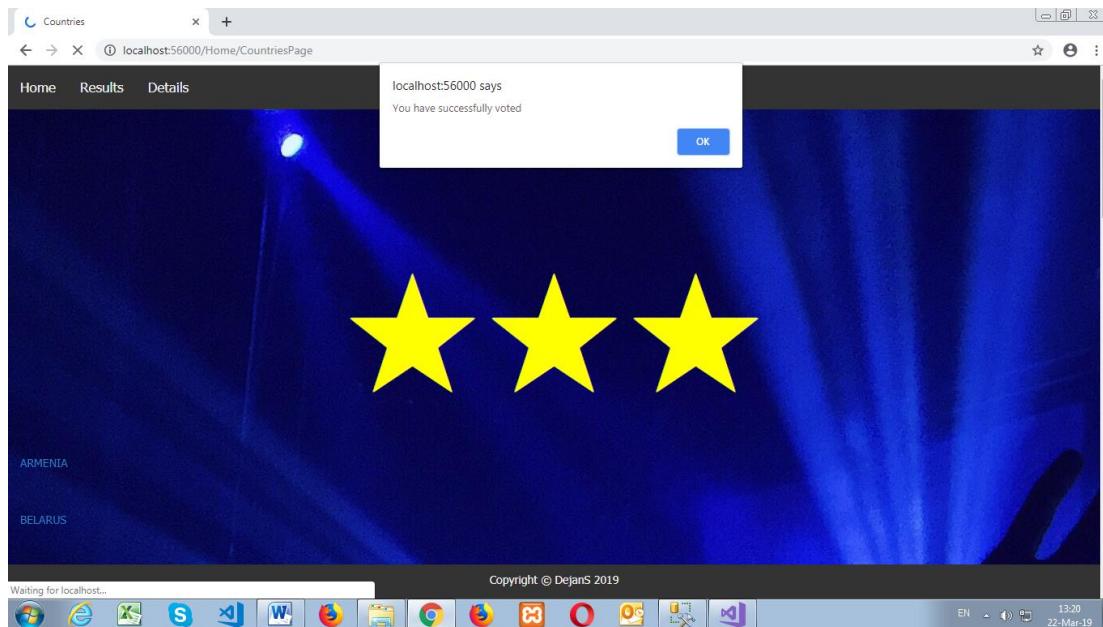
points	country
1 point	Armenia
2 points	Belarus
3 points	BIH
4 points	BIH
5 points	BIH
6 points	Belgium
7 points	Russia
8 points	France

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Ni jedno polje ne moze biti duplirano.



Konacno smo korektno uneli i imamo poruku pisana u javascriptu da smo uspesno glasali.



Countries

localhost:56000/Home/CountriesPage

Home Results Details

BELAKUS

BELGIUM

BIH

MALTA

MONTENEGRO

ESTONIA

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EN 13:22 22-Mar-19

Sada smo na CountriesPage i sada vidimo da je zemlja za koju smo glasali nestala sa liste.

RESULTS

localhost:56000/Res

Home Countries Details

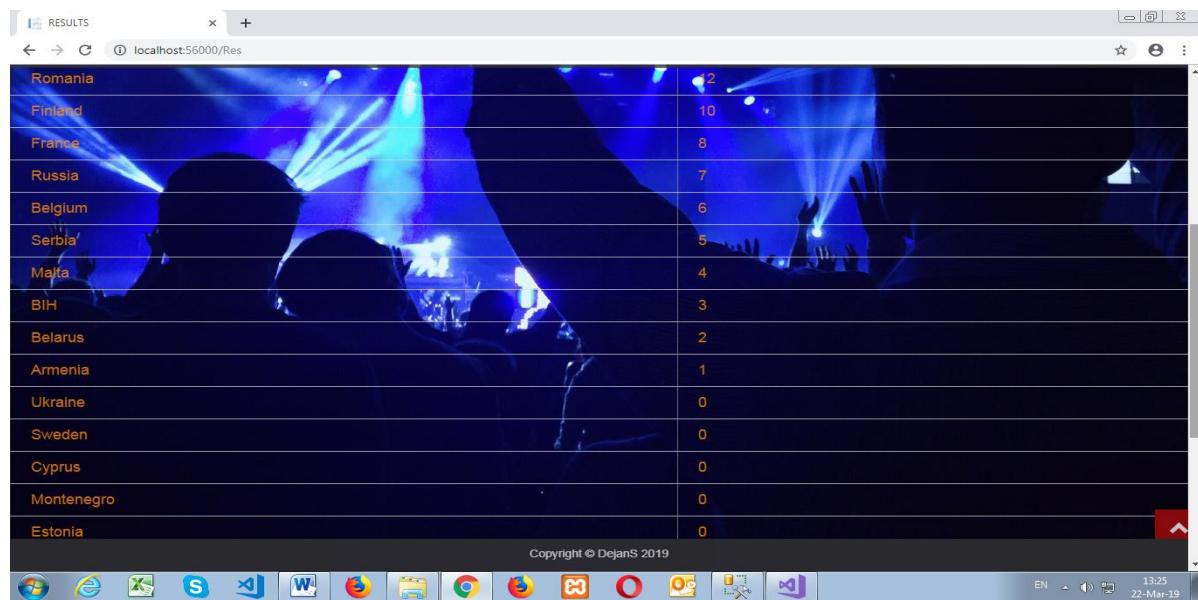
RESULTS:

Country	Score
Romania	12
Finland	10
France	8
Russia	7

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EN 13:23 22-Mar-19

Odmah mozemo pogledati na strani Results da vidimo score prvog glasanja.



RESULTS	
←	→
↻	✖
①	localhost:56000/Res
Romania	2
Finland	10
France	8
Russia	7
Belgium	6
Serbia	5
Malta	4
BiH	3
Belarus	2
Armenia	1
Ukraine	0
Sweden	0
Cyprus	0
Montenegro	0
Estonia	0

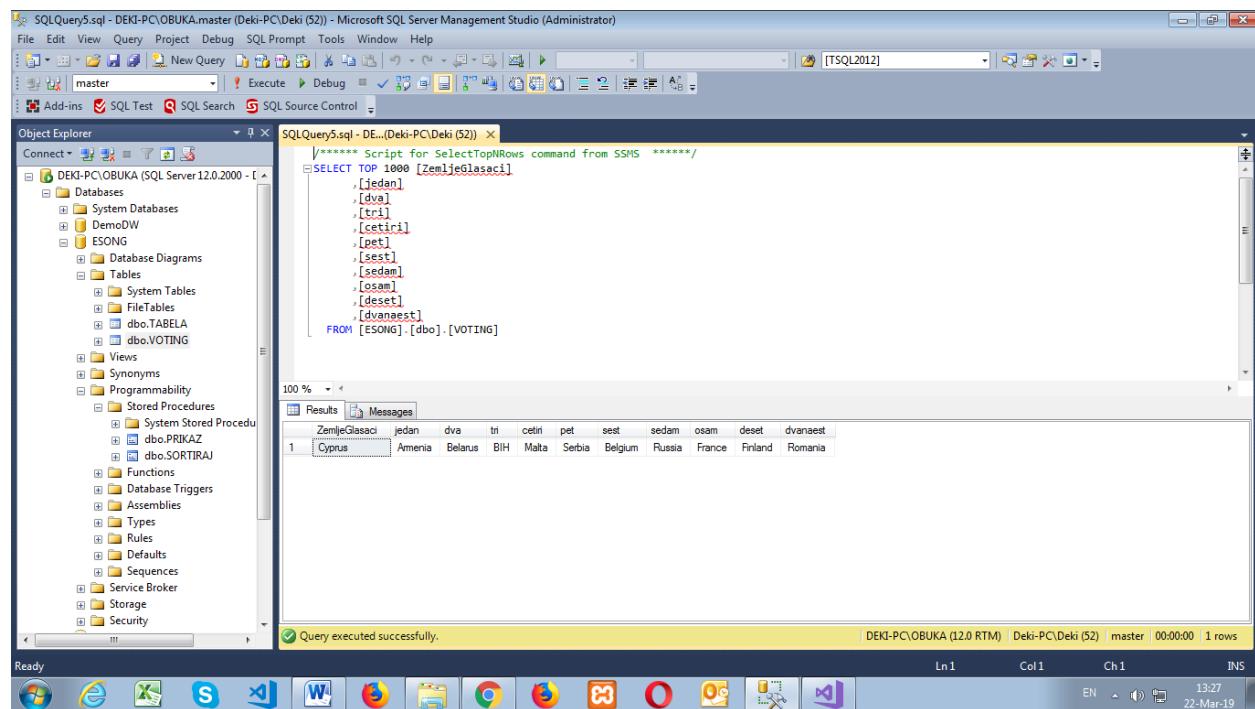
Copyright © DejanS 2019



RESULTS	
←	→
↻	✖
①	localhost:56000/Res
Belarus	2
Armenia	1
Ukraine	0
Sweden	0
Cyprus	0
Montenegro	0
Estonia	0

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U nasoj SQL bazi u tabeli dbo.VOTING je sada sledeće stanje.

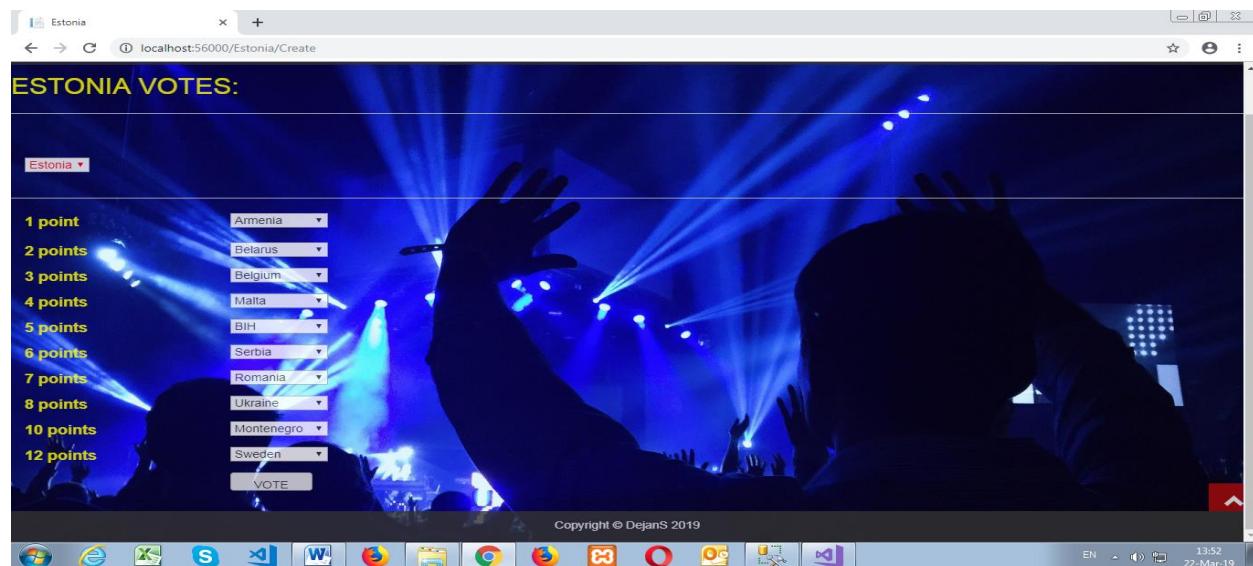


The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. On the left is the Object Explorer pane, which lists the database structure for 'DEKI-PC\OBUKA'. In the center is the 'SQLQuery5.sql' query editor window, containing the following T-SQL script:

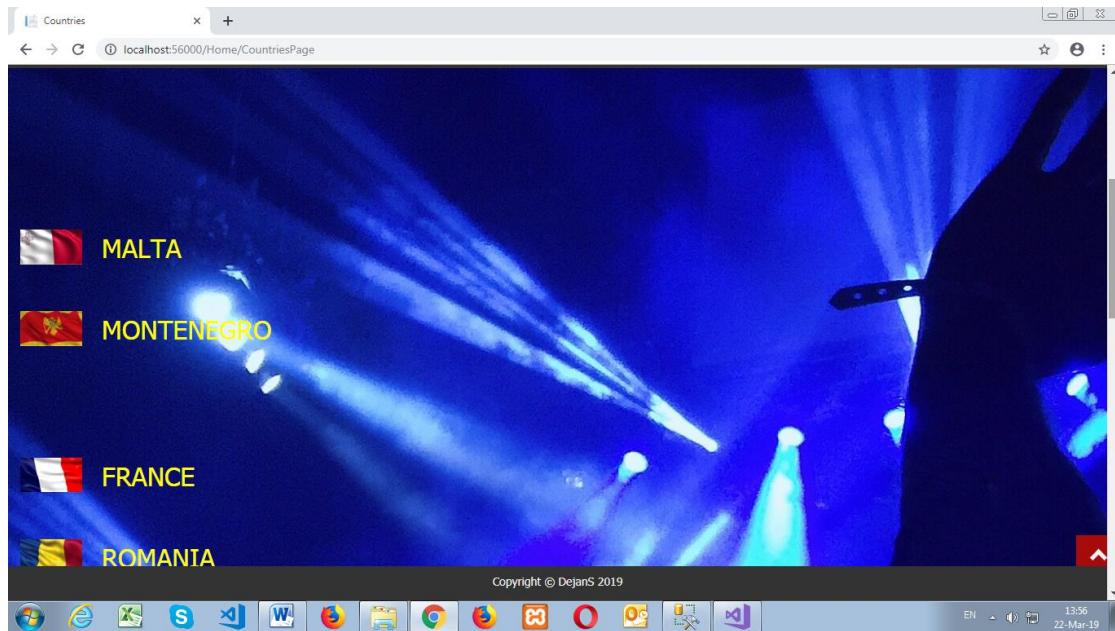
```
/*===== Script for SelectTopNRows command from SSMS =====*/
SELECT TOP 1000 [ZemljeGlasaci]
      ,[jedan]
      ,[dva]
      ,[tri]
      ,[cetiri]
      ,[pet]
      ,[sest]
      ,[sedam]
      ,[osam]
      ,[deset]
      ,[dvanaest]
  FROM [ESONG].[dbo].[VOTING]
```

The results grid below the script shows the top 1000 rows from the 'VOTING' table. The first row is highlighted, showing the value 'Cyprus' in the 'ZemljeGlasaci' column and a list of countries in the subsequent columns. The status bar at the bottom indicates the query was executed successfully.

Biramo drugu zemlju za glasanje.



Prikaz posle glasanja. CountriesPage.cshtml preko VjuBegova dobija informacije o promenljivim do cijih sam vrednosti dosao putem LINQ-a. To je kljuc za system notifikacija i pravog stanja u tabeli koji je vidljiv.



```

SQLQuery6.sql - DEKI-PC\OBUKA.master (Deki-PC\Deki (54)) - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Debug SQL Prompt Tools Window Help
master | ? Execute | Debug | Object Explorer | Task List | Results | Messages | Properties | Home | Help | Favorites | Status Bar
Add-ins SQL Test SQL Search SQL Source Control
Object Explorer
Connect > DEKI-PC\OBUKA (SQL Server 12.0.2000) > Databases
DEKI-PC\OBUKA
  Databases
    DemoDW
    ESONB
      Tables
        System Tables
        FileTables
        dbo.TABELA
        dbo.VOTBNG
      Views
      Synonyms
      Programmability
        Stored Procedures
          System Stored Procedure
          dbo.PRKAZ
          dbo.SORTIRAJ
        Functions
        Database Triggers
        Assemblies
        Types
        Roles
        Defaults
        Sequences
      Service Broker
      Storage
      Security
  Results
  Messages
  Country Score
  1 Armenia 1
  2 Belgium 6
  3 Belarus 2
  4 BIH 3
  5 Cyprus 0
  6 Malta 4
  7 Montenegro 0
  8 Estonia 0
  9 Friend 10
  10 France 8
  11 Serbia 5
  12 Russia 7
  13 Romania 12
  14 Ukraine 0
  15 Sweden 0
  100 % | 15 rows
  Query executed successfully. DEKI-PC\OBUKA (12.0 RTM) | Deki-PC\Deki (54) | master | 00:00:00 | 15 rows
  Ready | Ln1 Col1 Ch1 INS | EN | 13:28 | 22-Mar-19

```

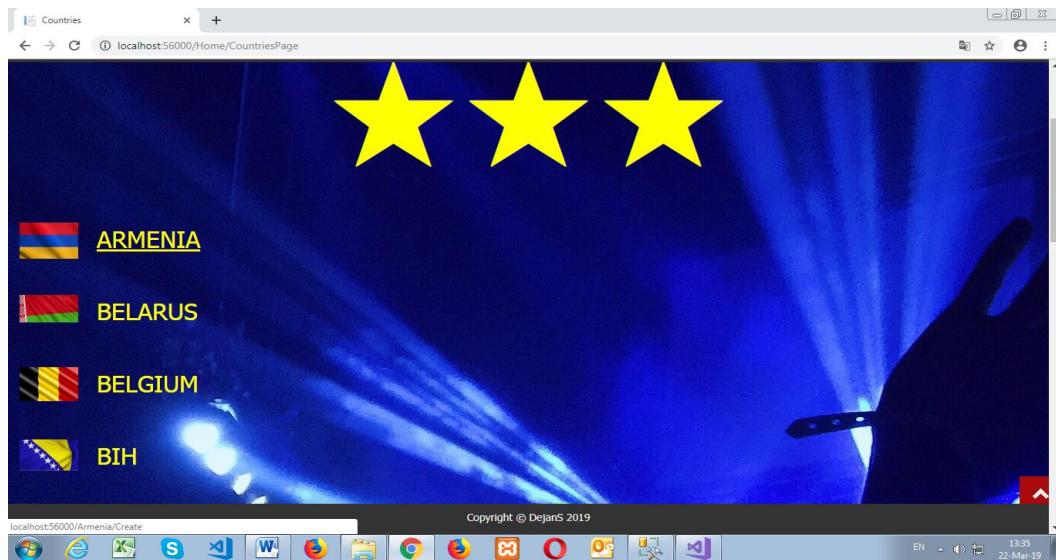
Tabela koja je rezultat rada procedura.

A sada da pogledamo kako je jedna zemlja zaista glasala po detaljima kome je dala i koliko poena.

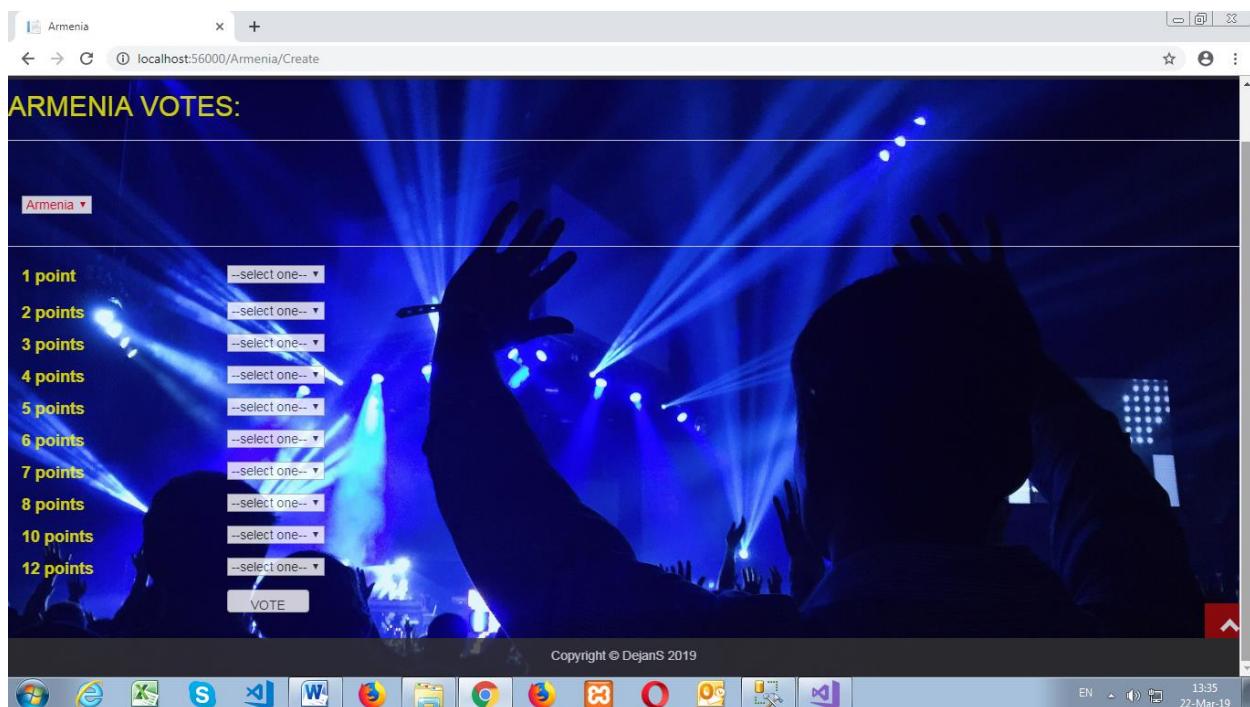
The country that votes	1 point	2 points	3 points	4 points	5 points	6 points	7 points	8 points	10 points	12 points
Cyprus	Armenia	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland)	Romania

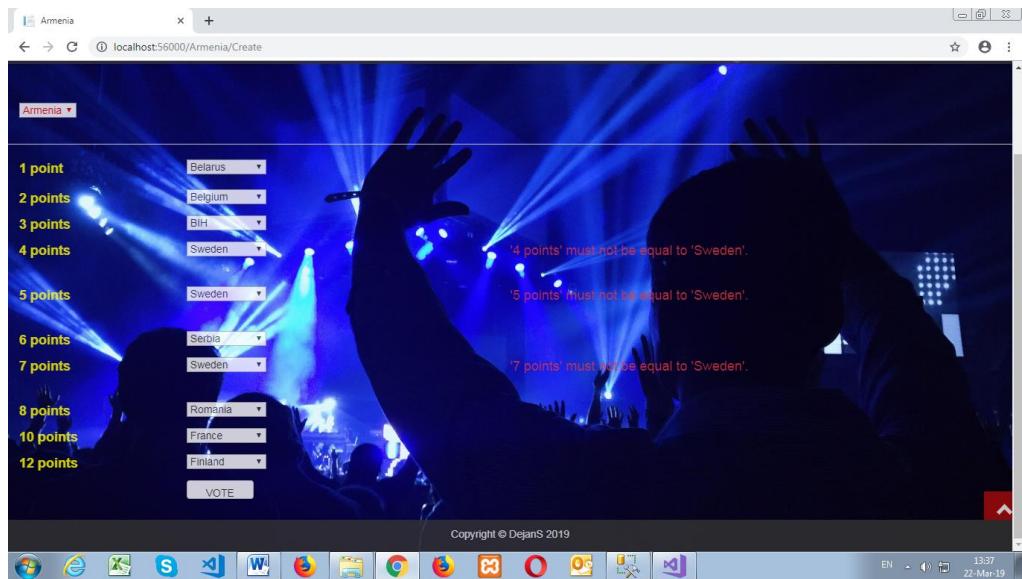
Voting details

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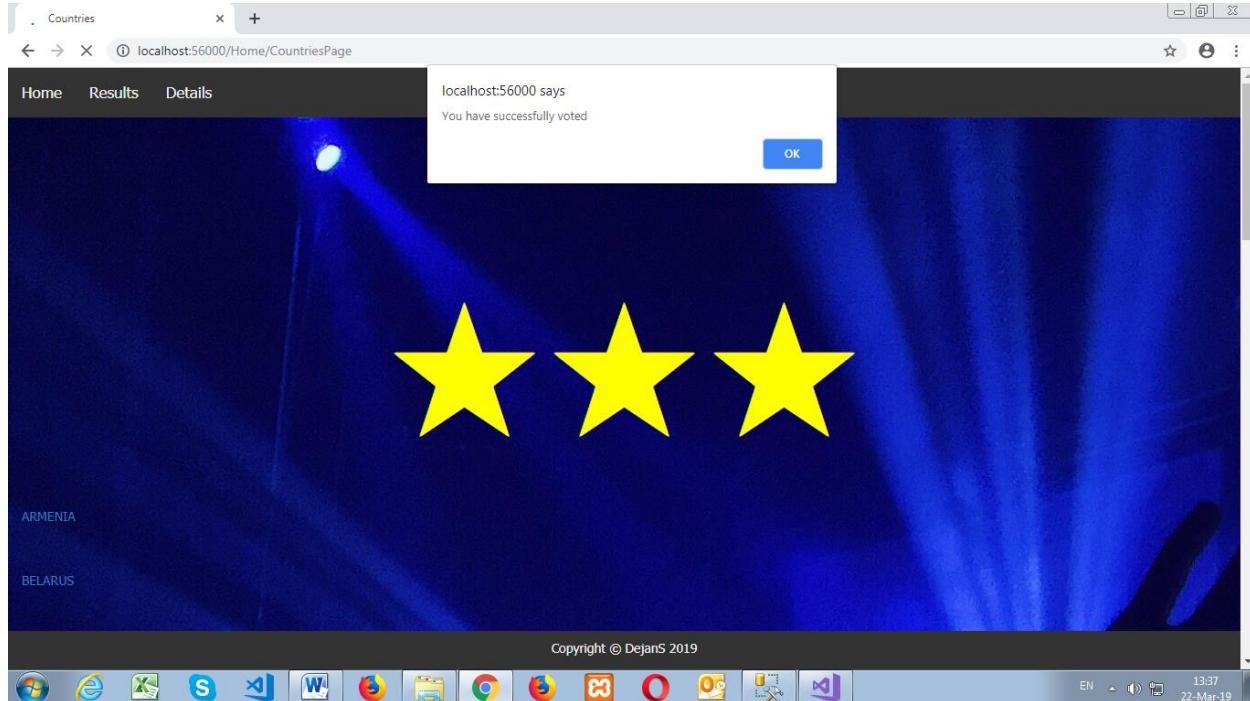
Novi krug glasanja.





Validacija nas vraca.

Nakon ispravke uspesno glasamo.



Rezultat u bazi.

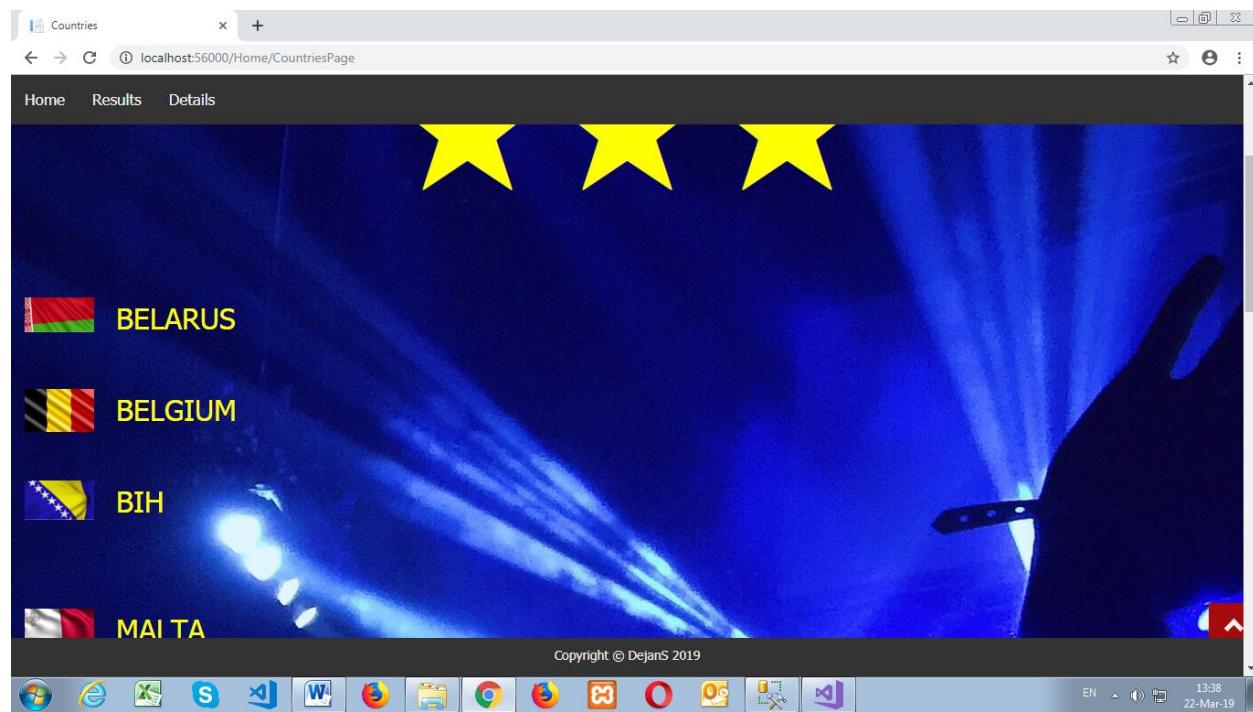
The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'DEKI-PC\OBUKA' is selected. In the center pane, a query window displays the following SQL code:

```
SELECT TOP 1000 [ZemljeGlasaci]
      ,[jedan]
      ,[dvaa]
      ,[tri]
      ,[četiri]
      ,[pet]
      ,[šest]
      ,[sedam]
      ,[osam]
      ,[deset]
      ,[dvanaest]
  FROM [ESONG].[dbo].[VOTING]
```

The results pane shows a table with the following data:

ZemljeGlasaci	jeden	dva	tri	četiri	pet	šest	sedam	osam	deset	dvanaest	
1	America	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France	Finland
2	Cyprus	America	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland	Romania

At the bottom of the results pane, it says 'Query executed successfully.'



Zemlja za koju je glasano nestaje sa strane za glasanje.

Tabela kao rezultat dejstva procedura.

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'DEKI-PC\OBUKA' is selected. In the center pane, a query window displays the following T-SQL code and its results:

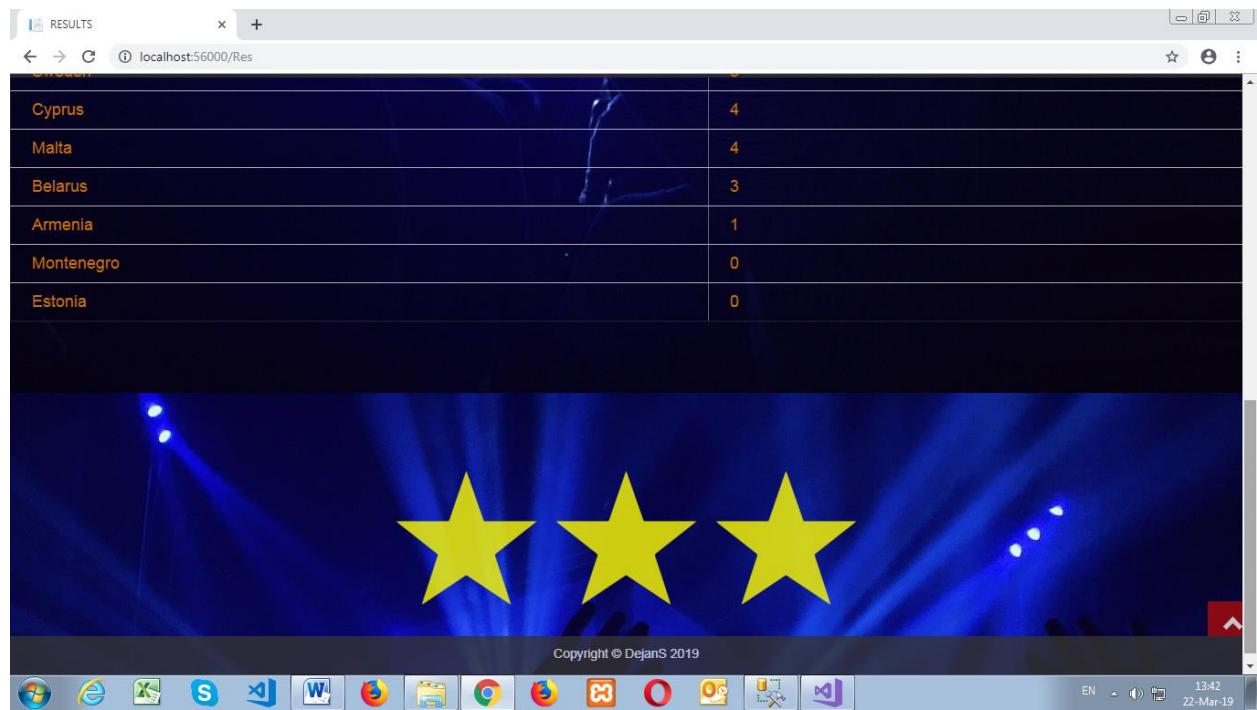
```
SELECT TOP 1000 [Country]
      ,[Score]
  FROM [ECONO].[dbo].[TABELA]
```

Country	Score
Armenia	1
Belgium	6
Bosnia	2
DH	3
Cyprus	0
Malta	4
Montenegro	0
Estonia	0
Finland	10
France	8
Serbia	5
Russia	7
Romania	12
Ukraine	0
Sweden	0

At the bottom of the screen, the taskbar shows various application icons, and the system tray indicates the date and time as 22-Mar-19.

Na strani Results opet mozemo videti promenu nakon novog kruga glasanja.





DETAILS:

The country that votes	1 points	2 points	3 points	4 points	5 points	6 points	7 points	8 points	10 points	12 points
Armenia	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France)	Finland
Cyprus	Armenia	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland)	Romania

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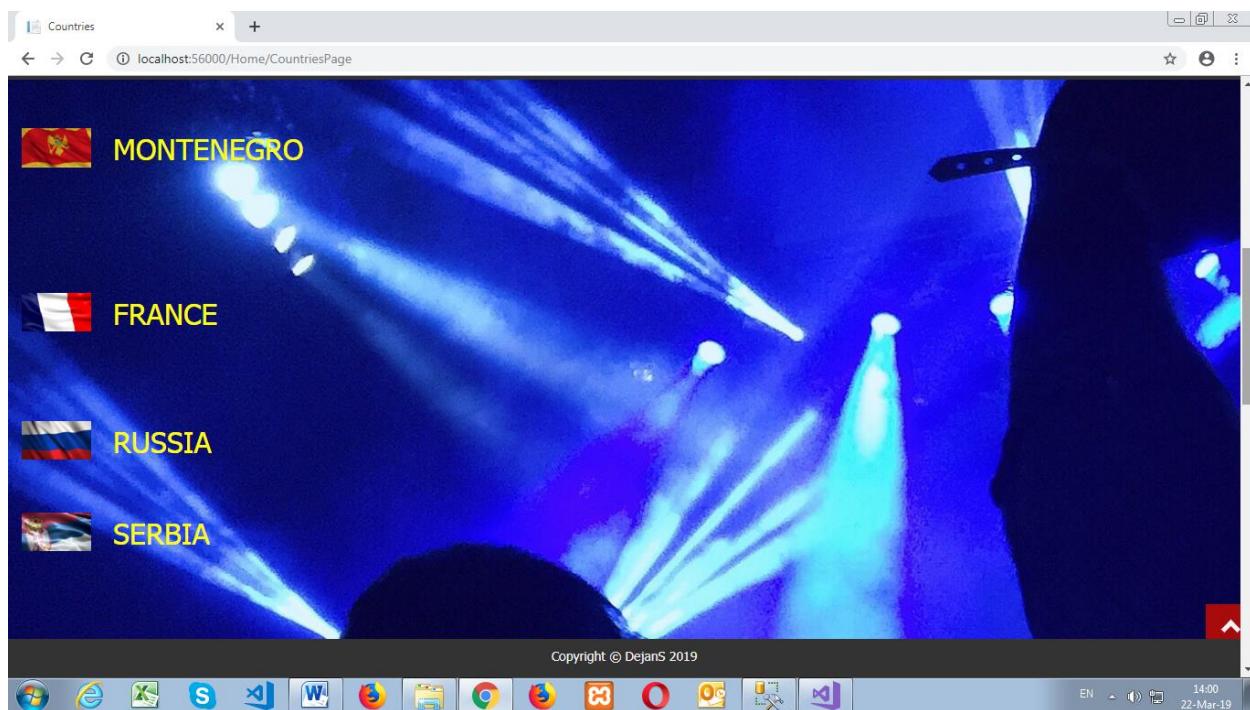
Detalji govore i o novom krugu glasanja, kome su zemlje tacno dale poene i koliko.

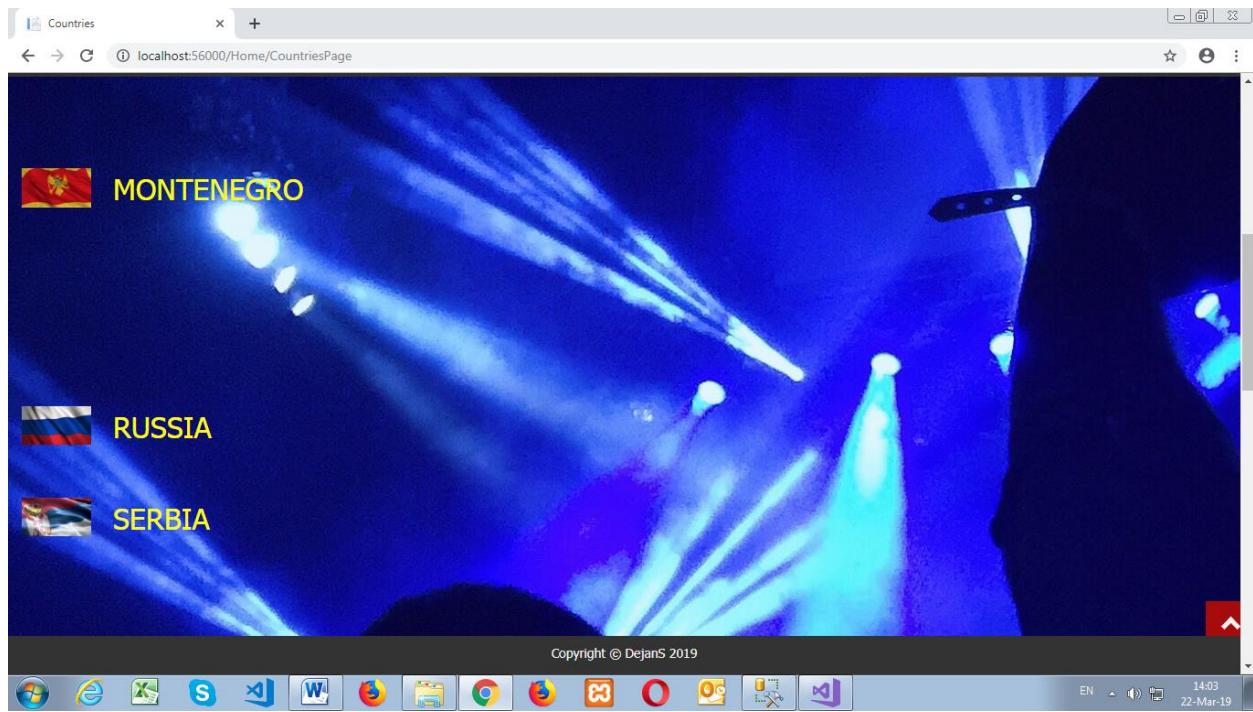
DETAILS:

The country that votes	1 points	2 points	3 points	4 points	5 points	6 points	7 points	8 points	10 points	12 points
Armenia	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France)	Finland
Cyprus	Armenia	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland)	Romania

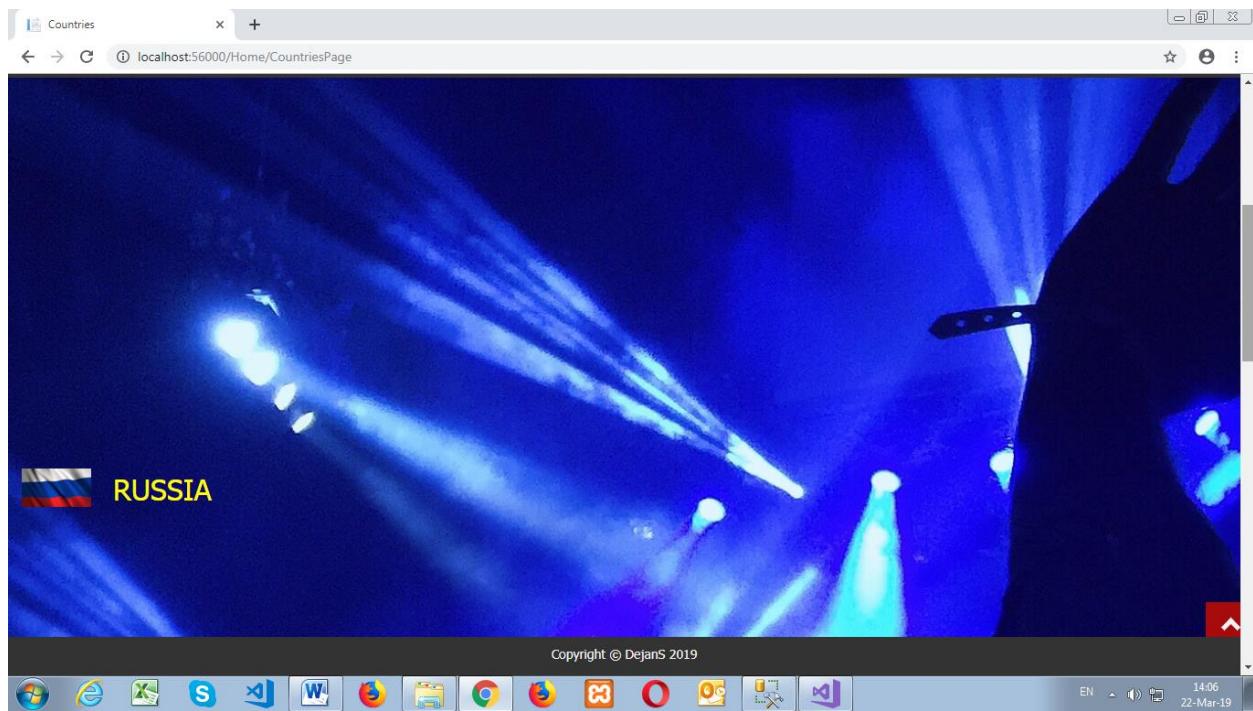
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Nakon nekoliko krugova glasanja, zemlje koje su preostale.





I na kraju poslednji krug glasanja.



Russia

localhost:56000/Russia/Create

RUSSIA VOTES:

Russia ▾

1 point Sweden

2 points Serbia

3 points Armenia

4 points Cyprus

5 points Malta

6 points France

7 points Finland

8 points Belgium

10 points BIH

12 points Serbia

VOTE

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EN 14:07 22-Mar-19

Russia

localhost:56000/Russia/Create

Russia ▾

1 point Sweden

2 points Serbia

3 points Armenia

4 points Cyprus

5 points Malta

6 points France

7 points Finland

8 points Belgium

10 points BIH

12 points Serbia

VOTE

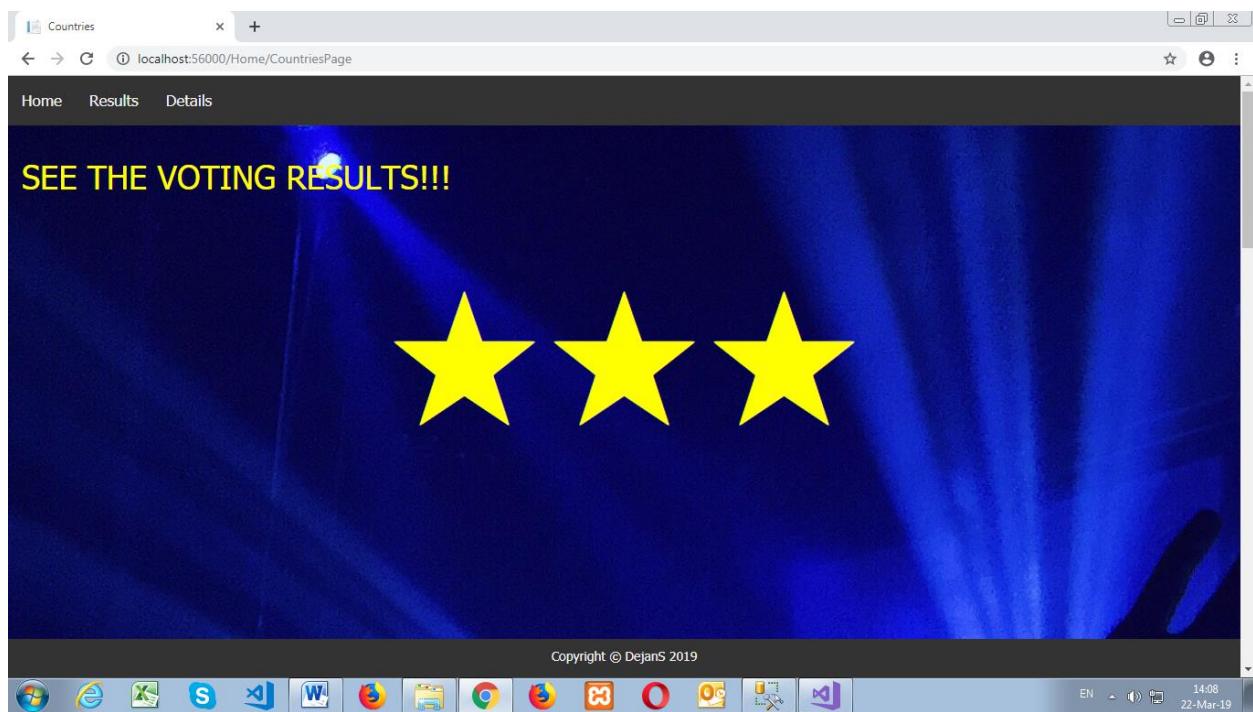
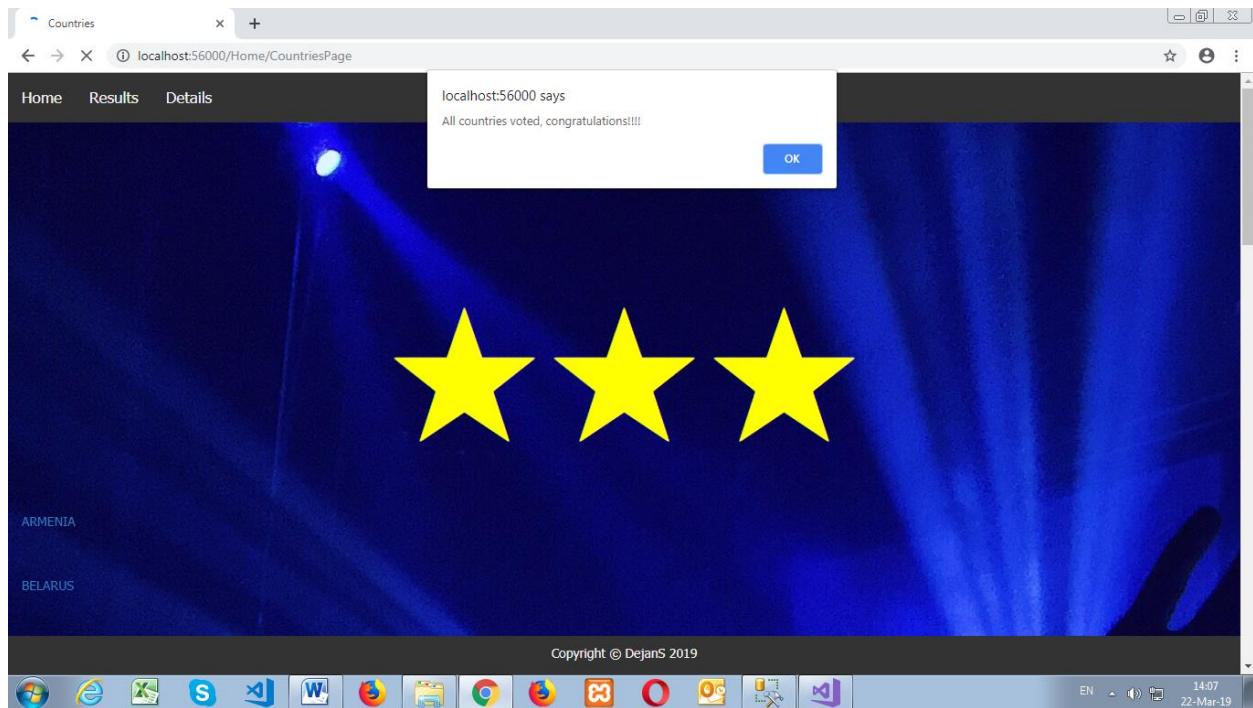
Please select your country for which you have not already voted!!!

'12 points' must not be equal to 'Serbia'.

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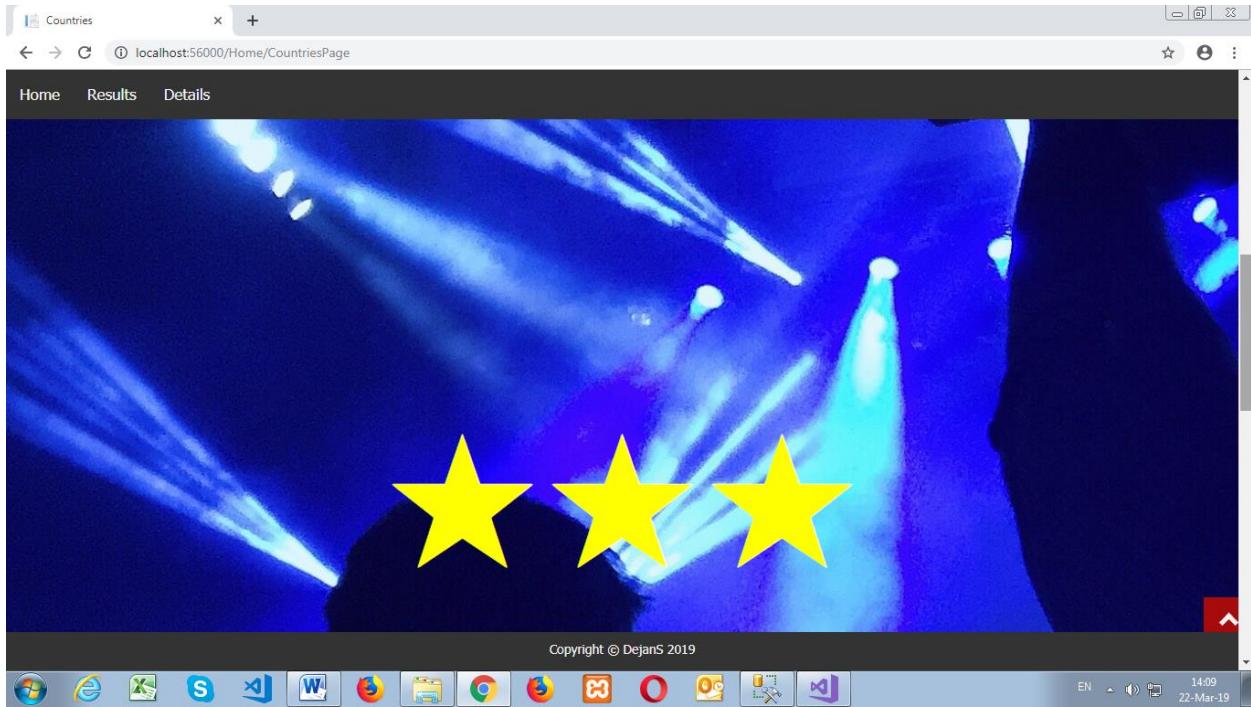
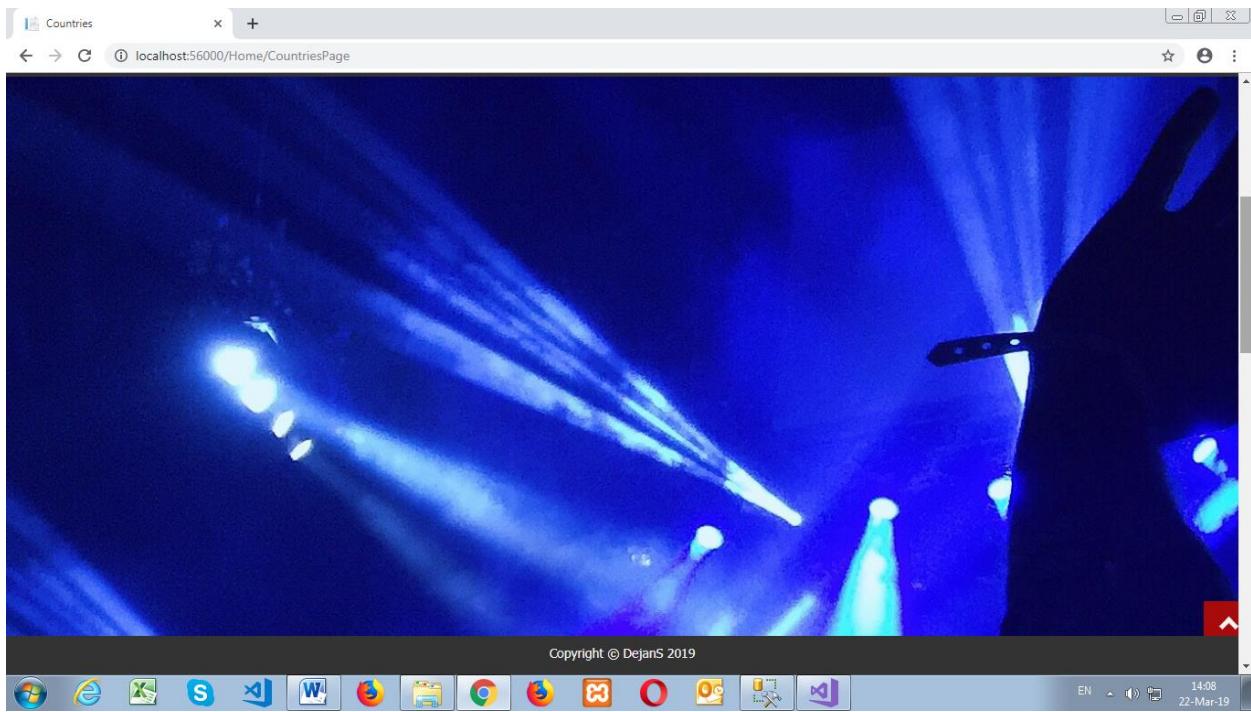
EN 14:07 22-Mar-19

Ispрављамо грешке, валидација на врата.



Glasanje je uspesno zavrseno.

CountriesPage.cshtml je sada potpuno prazna a tabela dbo.VOTING je potpuno prazna.



SQLQuery10.sql - DEKI-PC\OBUKA.master (Deki-PC\Deki (52)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug SQL Prompt Tools Window Help

New Query Execute Debug [TSQL2012] Add-ins SQL Test SQL Search SQL Source Control

Object Explorer

Connect+ Databases System Databases DemoDW ESONG Database Diagrams Tables System Tables FileTables dbo.TABELA dbo.VOTING Views Synonyms Programmability Stored Procedures System Stored Procedures dbo.PRKAZ dbo.SORTIRAJ Functions Database Triggers Assemblies Types Rules Defaults Sequences Service Broker Storage Security

SQLQuery10.sql - D... (Deki-PC\Deki (52))

```
***** Script for SelectTopNRows command from SSMS *****
SELECT TOP 1000 [ZemljeGlasaci]
[jedan]
[dva]
[tri]
[cetiri]
[pet]
[sest]
```

Results Messages

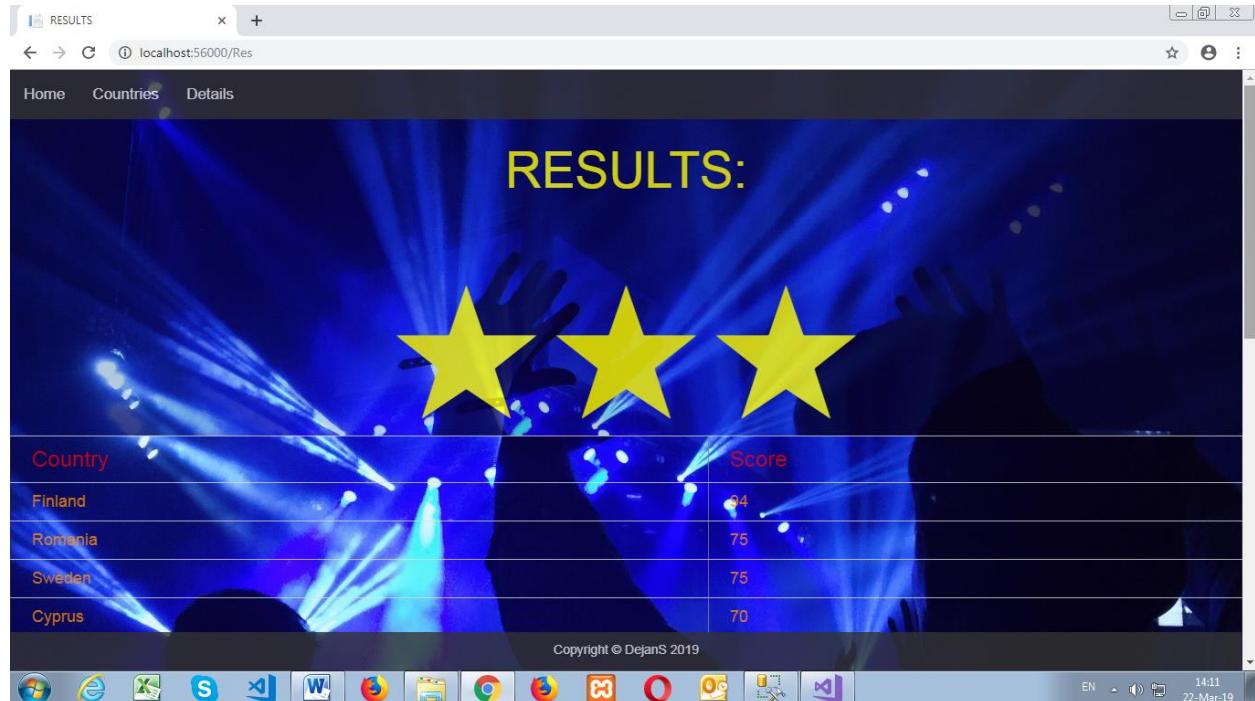
ZemljeGlasaci	jedan	dva	tri	cetiri	pet	sest	sedam	osam	deset	dvanaest
1 Armenia	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France	Finland
2 Belarus	Amenia	Belgium	BIH	Ukraine	Sweden	Romania	Finland	Estonia	Montenegro	Malta
3 Belgium	Amenia	Belarus	Sweden	BIH	Cyprus	Montenegro	Malta	Ukraine	Romania	Finland
4 BIH	Amenia	Belgium	Romania	Russia	Sweden	France	Finland	Montenegro	Cyprus	Ukraine
5 Cyprus	Amenia	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland	Romania
6 Estonia	Amenia	Belarus	Belgium	Malta	BIH	Serbia	Romania	Ukraine	Montenegro	Sweden
7 Finland	Amenia	Belarus	Belgium	Russia	Romania	France	Estonia	Montenegro	Malta	Cyprus
8 France	Amenia	Belarus	Belgium	BIH	Malta	Sweden	Finland	Russia	Estonia	Cyprus
9 Malta	Belarus	Belgium	BIH	Romania	Amenia	Finland	France	Sweden	Serbia	Russia
10 Montenegro	Amenia	Belgium	Belarus	Sweden	Ukraine	Estonia	Cyprus	Malta	Serbia	Finland
11 Romania	Belarus	Amenia	Malta	Sweden	Russia	Montenegro	Cyprus	Malta	BIH	Estonia
12 Russia	Sweden	Estonia	Amenia	Cyprus	Malta	France	Finland	Belgium	BIH	Serbia
13 Serbia	Belarus	Amenia	Cyprus	BIH	Malta	Finland	France	Romania	Ukraine	Sweden
14 Sweden	Amenia	Malta	Belgium	Ukraine	France	Cyprus	Estonia	Finland	Serbia	BIH
15 Ukraine	Amenia	Belarus	Belgium	Monte...	BIH	France	Estonia	Serbia	Sweden	Romania

Query executed successfully.

DEKI-PC\OBUKA (12.0 RTM) Deki-PC\Deki (52) master 00:00:00 15 rows

Ready Ln1 Col1 EN 14:09 22-Mar-19 INS

Sada pogledajmo konacne rezultate zavrserenog glasanja.



RESULTS

localhost:56000/Res

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EN 14:12 22-Mar-19

Countries	Points
Sweden	75
Cyprus	70
Malta	70
Serbia	67
BIH	66
France	61
Estonia	59
Ukraine	58
Montenegro	52
Belgium	42
Russia	40
Armenia	22
Belarus	19

Kao i detalje završenog glasanja.

DETAILS

Voting details

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EN 14:12 22-Mar-19

The country that votes	1 point	2 points	3 points	4 points	5 points	6 points	7 points	8 points	10 points	12 points
Armenia	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France)	Finland
Belarus	Armenia	Belgium	BIH	Ukraine	Sweden	Romania	Finland	Estonia	Montenegro)	Malta
Belgium	Armenia	Belarus	Sweden	BIH	Cyprus	Montenegro	Malta	Ukraine	Romania)	Finland
BIH	Armenia	Belgium	Romania	Russia	Sweden	France	Finland	Montenegro	Cyprus)	Ukraine

DETAILS

localhost:56000/Votings

Voting details

The country that votes	1 point	2 points	3 points	4 points	5 points	6 points	7 points	8 points	10 points	12 points
Armenia	Belarus	Belgium	BIH	Cyprus	Sweden	Serbia	Ukraine	Romania	France)	Finland
Belarus	Armenia	Belgium	BIH	Ukraine	Sweden	Romania	Finland	Estonia	Montenegro)	Malta
Belgium	Armenia	Belarus	Sweden	BIH	Cyprus	Montenegro	Malta	Ukraine	Romania)	Finland
BIH	Armenia	Belgium	Romania	Russia	Sweden	France	Finland	Montenegro	Cyprus)	Ukraine
Cyprus	Armenia	Belarus	BIH	Malta	Serbia	Belgium	Russia	France	Finland)	Romania
Estonia	Armenia	Belarus	Belgium	Malta	BIH	Serbia	Romania	Ukraine	Montenegro)	Sweden
Finland	Armenia	Belarus	Belgium	Russia	Romania	France	Estonia	Montenegro	Malta)	Cyprus
France	Armenia	Belarus	Belgium	BIH	Malta	Sweden	Finland	Russia	Estonia)	Cyprus
Malta	Belarus	Belgium	BIH	Romania	Armenia	Finland	France	Sweden	Serbia)	Russia
Montenegro	Armenia	Belgium	Belarus	Sweden	Ukraine	Estonia	Cyprus	Malta	Serbia)	Finland
Romania	Belarus	Armenia	Belgium	Sweden	Russia	Montenegro	Cyprus	Malta	BIH)	Estonia
Russia	Sweden	Estonia	Armenia	Cyprus	Malta	France	Finland	Belgium	BIH)	Serbia
Serbia	Belarus	Armenia	Cyprus	BIH	Malta	Finland	France	Romania	Ukraine)	Sweden
Sweden	Armenia	Malta	Belgium	Ukraine	France	Cyprus	Estonia	Finland	Serbia)	BIH

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EN 14:12 22-Mar-19

DETAILS

localhost:56000/Votings

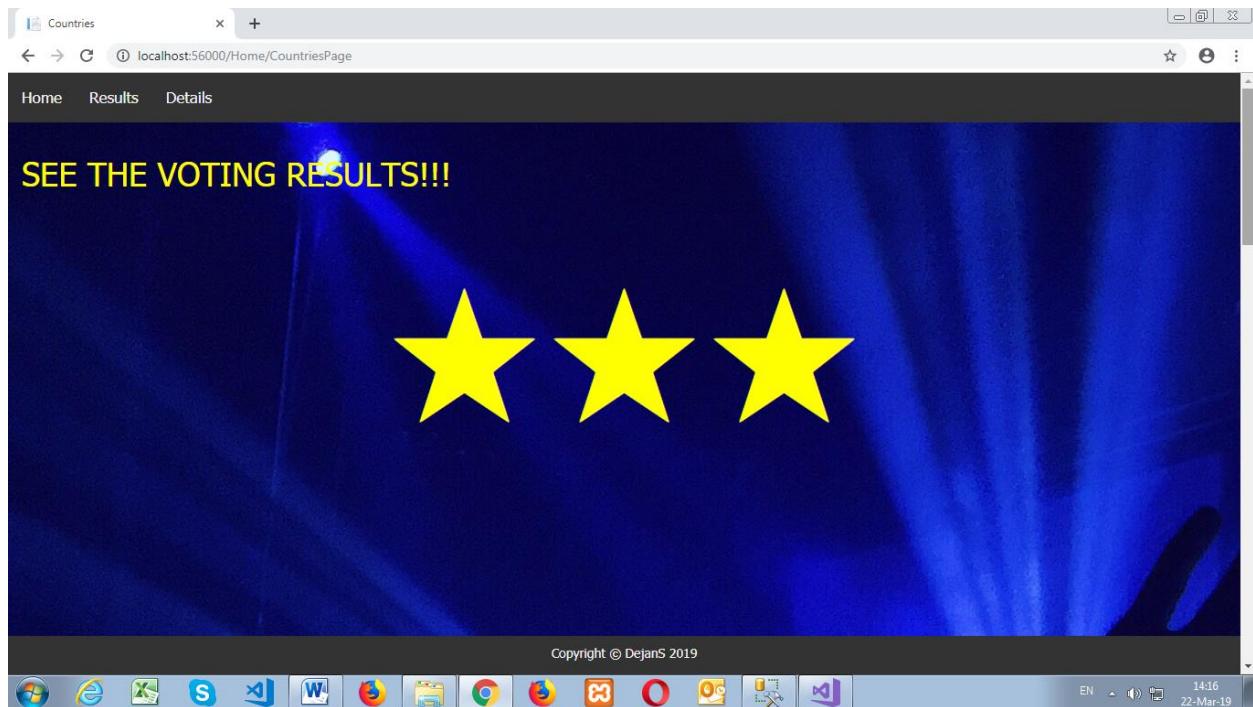
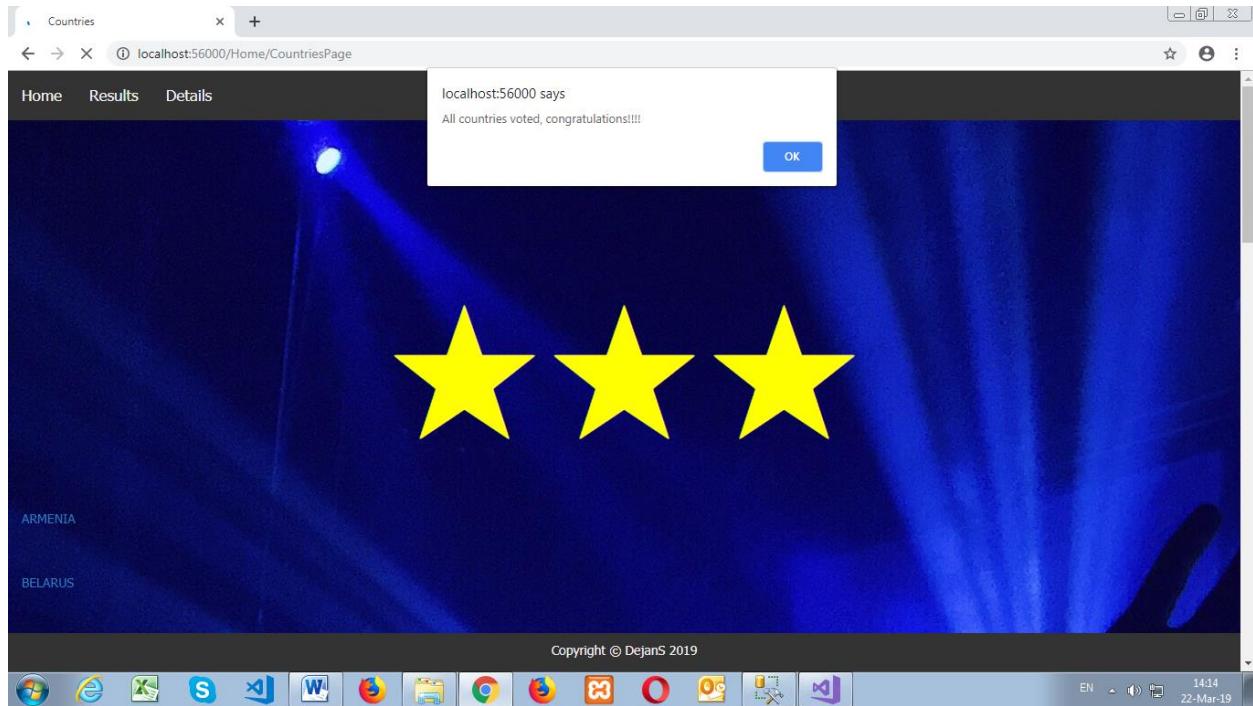
Voting details

France	Armenia	Belarus	Belgium	BIH	Malta	Montenegro	Finland	Russia	Estonia)	Cyprus
Malta	Belarus	Belgium	BIH	Romania	Armenia	Finland	France	Sweden	Serbia)	Russia
Montenegro	Armenia	Belgium	Belarus	Sweden	Ukraine	Estonia	Cyprus	Malta	Serbia)	Finland
Romania	Belarus	Armenia	Belgium	Sweden	Russia	Montenegro	Cyprus	Malta	BIH)	Estonia
Russia	Sweden	Estonia	Armenia	Cyprus	Malta	France	Finland	Belgium	BIH)	Serbia
Serbia	Belarus	Armenia	Cyprus	BIH	Malta	Finland	France	Romania	Ukraine)	Sweden
Sweden	Armenia	Malta	Belgium	Ukraine	France	Cyprus	Estonia	Finland	Serbia)	BIH
Ukraine	Armenia	Belarus	Belgium	Montenegro	BIH	France	Estonia	Serbia	Sweden)	Romania

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EN 14:13 22-Mar-19

Stanje u tabeli je takvo da su sve zemlje ucesnice glasale I da se nakon refresha CountriesPage I dalje vidimo nijedna zemlja nije ostala linkovi ne postoje.



5. Zakljucak

U primeru ove troslojne web aplikacije mozemo videti da je njena prakticna primena veoma moguca. Prikaz stanja u tabeli nakon izvrsenih promena je od velikog znacaja za veliki broj oblasti. Lakoca upotrebe daje korisniku mogucnost da veoma lako i brzo participira u ovakovom dogadjaju. Primer je uradjen sa 15 zemalja ucesnica, ali administrator moze dodati jos zemalja i za svaku je potrebno napraviti poseban kontroler i vju.