UserVoice-like Web Application

You are assigned to design and implement an application for **collecting ideas (suggestions) from users**.

You will be developing a web application similar to https://visualstudio.uservoice.com/.

The system should be implemented using **ASP.NET MVC 5**.

Your project **should be based on the template** we have created during one of the workshops: https://github.com/NikolayIT/ASP.NET-MVC-Template

Use **Entity Framework** as ORM engine and **MS SQL Server** as database storage engine and use **code-first approach** to access your data. Use **repositories (or service layer)** for abstracting the database layer.

Your project should run after a **"copy/paste" deployment** and after changing the connection string in the Web.config file with an appropriate value. For convenience use "*DefaultConnection*" as the name for your connection string.

There will be 2 types of users in the system: **anonymous users** (not logged-in) and **registered users**.

Anonymous users should be able to browse, search and add ideas in the site. They should also be able to comment and vote for ideas.

Registered (logged-in) users should be able to edit, and delete comments and ideas.

Data Layer and Common Features (15 points)

- Design a simple data layer to hold **users**, **ideas** (with title, plain-text (no HTML) description, created on datetime and author IP address)**, votes for ideas** (with IP, vote points) and **comments for ideas** (with plain-text content, email of the author, created on, IP).

   4 points

- Fill (seed) the database with **sample data**.
   - **1 user** with email (username) "**user1@site.com**" and password "**user1**".
   - Copy-paste the **top 15 ideas** from https://visualstudio.uservoice.com/ to the database.
   - At least **10 comments** for each idea.
   - At least **100 random votes** with random IPs and random vote points (between 1 and 3) for each of the ideas.

   5 points

- In the **navigation (menu)** when user is authorized display links for administering comments and ideas.

   1 point

- **Configure the ASP.NET Identity System** to enable user management functionality (register / login / logout should work properly).
   - Disable all password requirements. "*user1*" should be a valid password. The minimum required length of the password should be 5.

   1 point

- **Error handling** – in case of errors (e.g. DB connection lost, incorrect request, 404, etc.), an appropriate error message should be displayed. You are free to decide how exactly.

   2 points

- **User interface (UI)** – the user interface should be usable enough. It is not needed to be beautiful. You may use Bootstrap if you will.

   2 points

Home page (29 points)

I suggest you ...

Creating idea - 3 points

Enter your idea

Enter description

Post idea

Order by votes/date - 2 points

Searching - 4 points

Search

Top ideas   New

22,871 votes

Vote

Voting - 4 points

XNA 5

Please continue to work on XNA. It's a great way for indie game developers like myself to make games and give them to the world. XNA gave us the ability to put our games, easily, on the most popular platforms, and to just dump XNA would be therefor heartbreaking... I implore you to keep working on XNA so we C# developers can still make amazing games!

356 comments

**This isn't HTML. Just replace new lines with
 - 2 points**

16,113 votes

Vote

Allow .NET games on Xbox One

Yesterday was announced that Xbox One will allow indie developer to easily publish games on Xbox One.

Lots of indie developers and small game company are using .NET to develop games. Today, we are able to easily target several Windows platforms (Windows Desktop, Windows RT and Windows Phone 8) as well as other platforms thanks to Mono from Xamarin.

As we don't know yet the details about this indie developer program for Xbox One, we would love to use .NET on this platform - with everything accessible, from latest 4.5 with async, to unsafe code and native code access through... more

When text is longer than 300 symbols - show "more" link - 1 point

288 comments

7,608 votes

Support web.config style Transforms on any file in any project type

Web.config Transforms offer a great way to handle environment-specific settings. XML and other files ...es when building for development (Debug), SIT, UAT, and production (Release). ...ild configurations to support multiple environments via transforms.

Vote | 1 vote | 2 votes | 3 votes |

You have 4 votes left!

...n be handled in web.config files many settings need to be changed in xml or

This is what happens when you click on vote

Also, this functionality is needed in other project types - most notably SharePoint 2010 projects.

485 comments

Paging (3 items per page) - 4 poitns

← Previous   **1**   2   3   4   5   Next →

- **Each IP address has only 10 votes available**. Once submitted, the vote cannot be edited. (3 points)
- **Implement voting and creating ideas with AJAX**. Don't forget to save user's IP address. (3 points)
- **Ordering, searching and paging should be used in any combination together.** (3 points)

Idea Details Page (16 points)

5,873 votes

Bring back Macros

I am amazed you've decided to remove Macros from Visual Studio. Not only are they useful for general programming, but they're a great way to be introduced to the Visual Studio APIs.
If you are unwilling to put in the development time towards them, please release the source code and let the community maintain it as an extension.

March 05, 2012

Display idea info, votes and comments count - 3 points

648 comments

> Add a comment...

Adding comments - 3 points
Validation - 2 points

> Your email address

Post comment

List comments - 3 points

Iva*********@gma**.com commented · February 17, 2016 10:22

Hide emails - 2 points

Are the survey results available somewhere? Is there something at all planned for VS2015?

Don**********@tel****.com commented · February 14, 2016 15:23

Yes.. The macros do not save all the actions. Lets imagine that I want to save a macro than includes searching for an specific word, substituting it, etc... If I save the macro and execute it it wont repeat the action to search the next instance of the word, just the typing.

Evl**********@tel****.com commented · January 31, 2016 20:32

Macros aren't used often, but when you are creating or updating large volumes of code, they save HOURS and HOURS of tedious work.
Please bring back as a built in feature!
Thanks.

Zdr*************@tel****.com commented · January 21, 2016 21:17

It's been nearly four months since the survey and still no indication of intent. I'm pretty certain that 100% of the surveys want macros back and I'm also pretty sure that most of them would like to see it open-sourced. It's seeming more and more like the survey was a waste of time.

← Previous **1** 2 3 4 5 Next →

Paging - 3 points

- You may implement posting and displaying comments however you like (with or without AJAX)
- Display **4 items per page (order items by newest first)**. Content and email address of the comments are required. Email address should be a valid email address.
- Implementation of voting on this page is not required

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Administrator Area (20 points)

- Create pageable, filterable and sortable KendoUI Grid administration for displaying the **comments**. The grid should support **editing** of the comment's email and content. Implement **deleting** of comments. Creating comments from the grid is not required.

  9 points

- Create pageable, filterable and sortable KendoUI Grid administration for displaying the **ideas**. The grid should support **editing** of the ideas's title and content (multiline). Implement **deleting** of ideas. Deleting an idea should **delete all of its comments**. Creating ideas from the grid is not required.

  11 points

Other (Advanced) Requirements (20 points)

- On the registration page place and validate **CAPTCHA**
  - Use Google reCAPTCHA (https://www.google.com/recaptcha)

    5 points
- **Extract hiding email logic** (replacing admin@nikolay.it with adm**@nik****.it) into a service and unit test the service logic with all possible cases. Only the first 3 symbols of the user and the domain name should be visible. All other characters should be replaced with "*".

  4 points

- The **"idea details page" URLs** should be in the following format:
  `/suggestions/2650757-bring-back-macros`
  where "2650757" is the Id of the idea (suggestion) and "bring-back-macros" is the title.

  3 points
  - Unit test that all URLs (including the one described above) maps to the correct controller, action and parameters. Test all possible cases.

    3 points
- Create a **global filter** (for all requests) **that returns the user IP address as a response header** called "X-ROSES-ARE-RED-VIOLETS-ARE-BLUE-I-KNOW-EVERYTHING-ABOUT-YOU" which value is the client IP address. Example:
  X-ROSES-ARE-RED-VIOLETS-ARE-BLUE-I-KNOW-EVERYTHING-ABOUT-YOU: ::1

  3 points
- You code should have **0 StyleCop warnings**.

  2 points

Evaluation Criteria

The evaluation criteria include: correct and complete **fulfillment** of the requirements; good **technical design** and appropriate use of technologies; **high-quality code** (correctness, readability, maintainability).

Ensure your **UI behaves correctly** when the users enter invalid data, e.g. too long text in a text field or HTML special characters like "<br/>". **Validate the data** in your forms. **Don't forget the CSRF.**

Exam Duration

Students are allowed to work up to **8 hours**.