

Blog Audition

# Instructions

Work on this *all on your own*. Feel free to use Google, StackOverflow, MSDN, other online references, any libraries you may find useful, but the code should be 100% written by you.

When submitting your code, please give an indication of how long you worked on it and which requirements below you fully completed in your solution.

**This exercise is due**: two weeks from the date you receive it.

# Scenario

Create a simple blog website using Python, Django web framework, React.js on the frontend and PostgreSQL as a database with the following functionality:

# The Must Haves:

Make sure your solution does at least these steps:

1. Register & Login
   1. New users should be able to register from the front page
   2. Anyone can make an account
2. Create, Read, Update and Delete a new blog post (title, body)
   1. Blogs should be associated with the author’s name
   2. Posts should display the date created
   3. Updating and Deleting posts should only be allowed by the User that made them
3. Viewing posts on a front page
   1. Display all posts by all authors in order of newest first
   2. Filter by Author

Technical requirements include:

* Use decent CSS to make the home page look nice
* Use AJAX to have a continuously updating front page
  + When new blogs are submitted, add them to the top of the front page

# Bonus:

Do as many of these as time permits. It’s your call to decide which you’d like to implement. The point values listed next to each item do not necessarily denote the level of difficult per item, but are rather a value for how important these items are to us.

1. (**10 pts**) Responsive design to support mobile or tablet form factors. May use a front-end framework like Bootstrap for this.
2. (**7 pts**) Use Repository Pattern to handle data access through Entity Framework
3. (**6 pts**) Use Entity Framework Code First
4. (**5 pts**) Allow authenticated users (including non-admins) to post comments
   1. Make a comment system
   2. Make the comment system available for only currently logged in users
5. (**3 pts**) Third-party social integration on individual posts, e.g. Facebook “Like”
6. (**2 pts**) Get an RSS feed
   1. Generate a feed that users can subscribe to in their RSS reader of choice

# Conclusion:

When you’re done, please send back:

* Your code through a link to your Github
* Instructions on getting your solution to run (if it’s more than just F5 in VS)
* A list of the items above that you implemented / attempted to implement
* How long you spent on the entire solution (including research, code time, sending)