2023

PS1 Code Judgement Rubric

ONLY CODE JUDGES SHOULD BE USING THIS VERSION OF THE RUBRIC!

Judge (not shared with students):	
Judged Team (name or number):	
Date:	

Instructions: for each requirement, mark the box that most closely aligns to your impression of the solution given the prompt. Your judgments here should reflect how well the solution satisfies the directions in the problem statement and the team's presentation as well as your own review of the solution's source code. Aesthetic appeal of a solution is <u>not</u> more important than functionality. If a solution is not pretty but otherwise meets a requirement, that counts as reasonably satisfying that requirement. Keep your expectations high, teams had a whole month to work on this. DO NOT FEEL OBLIGATED TO AWARD HIGH SCORES! In the case that a solution attempts to "satisfy" a requirement by making it *look* like it works via the Ul/demo code but the required feature is actually non-functional, a score of 0 is appropriate. Also, note that you do not have to fill this rubric out in order! If you have any questions at all, please reach out ASAP!

Solution Functionality Review

[total weight: 100]

Requirement(s) to Reference	Score			
	0	1	2	3
	Missing or Completely Non-functional	Attempted But Does Not Meet My Expectations	Meets My Expectations	Exceeds My Expectations
	You do not have to login before being able to view the Auth or Profile views. [weight: 1]			or Profile views.
	You must login before being able to view the full Profile view or the Opportunity view. Must be logged in as an administrator to view the Admin view. [weight: 1]			
Requirement 1	You must login as a staff account before being able to view the full Opportunity view. [weight: 1]			
Requirement 6				
	Providing random login credentials <i>does not</i> allow you to log into the system successfully. [weight: 3]			
	Providing the correct login credentials <i>does</i> allow you to log into the system successfully. [weight: 1]			

	When you are already logged in, you should not be able to create a new account using the same URL/link used to create accounts when you're not logged in. [weight: 1]			
	You can create a brand new account via a registration feature; you can login successfully using the account you just created. [weight: 2]			
Requirement 2	The Home view (the landing page of the app) is pleasant to look at, convincing, and ergonomic. There are no grammatical mistakes or spelling errors. [weight: 1]			
	The Profile view (the page displays information about a user) is pleasant to look at, elegant, and ergonomic. It is pretty simple to figure out and use. It has the appropriate components spelled out in the requirement text and provides the functionality spelled out at each bullet point. [weight: 5]			has the appropriate
	Users can edit information in their own profile's sections: "About", "Experience", "Education", "Volunteering", and "Skills". [weight: 3]			
Requirement 3				
	Users can change their public profile URL. This change is app-specific and does not apply across solutions. [weight: 3]			pecific and does not
	· •	•	pictures and allow uploadoes not apply across ht: 2]	•
Requirement 4	chronological order) figure out and use. It l	is pleasant to look at, e has the appropriate cor vides the functionality s	nks to all the opportunitelegant, and ergonomicelegant, and ergonomicelegant, and ergonomicelegant in the spelled out at each bulkers 5]	. It is pretty simple to the requirement text

	A limited version of the Opportunity view is shown to inner users while the full version (that allows for the creation, modification, and deleting of opportunities) is shown to staff users. guest users cannot see this view. [weight: 2]			
	Each opportunity has its own unique URL. [weight: 2]			
	The Opportunity view	supports <u>Markdown</u> . C are pleasan [weig		red as Markdown and
	The Admin view (the page allowing administrators to view information about the system) is pleasant to look at, elegant, and ergonomic. It is pretty simple to figure out and use. It has the appropriate components spelled out in the requirement text and provides the functionality spelled out at each bullet point. [weight: 5]			
	Can force non-administrator users to logout. [weight: 4]			
Requirement 5				
	Can impersonate a non-administrator user. [weight: 4]			
	Can create new accounts through the Admin view. [weight: 4]			
Requirement 6	The Auth view (the page that allows you to login and/or register) is pleasant to look at, elegant, and ergonomic. It is pretty simple to figure out and use. It has the appropriate components spelled out in the requirement text and provides the functionality spelled out at each bullet point. [weight: 5]			

	You cannot use the same email address or username to register more than one user. That is: usernames and email addresses must be unique. [weight: 1]			
	Registration requires a CAPTCHA. Users are restricted from logging in for 1 hour after 3 failed login attempts. Users can see how many attempts they have remaining. [weight: 2]			
	can login using "re logged in afterwards login again without same way, you shou	emember me," completo s. When you disable "re using "remember me") ald no longer be logged atures" are disabled in	e" functionality to stay lely exit the browser, recommember me" functional and you exit and relauin. NOTE: ensure the fyou're having troubles.	open it, and still be lity (i.e. log out, then nch the browser the browser's session
Requirement 7	password. This shou visiting the Auth view. the team's submission	ld be available through Instructions on how re on documents. You MU shown your old "forg security	e to regain access to ar a "forgot password" lir ecovery emails are simu IST be forced to set a potten" password whi of failure.	nk of some kind when ulated can be found in new password and
Requirement 8	The app has a navig	data (for authed user	BDPA logo, app title, as) visible in all views.	and a subset of user
Requirement 9	UI if the profile is firs	st-order, second-order, nat are not connected t	rofiles of connected us or third-order connecte o your user, this is also ht: 10]	d. When viewing the
Requirement 10	counts of total views on the screen automa refresh button or ta across multiple tabs tl	and active viewers/ses atically when changed i lke any other actions. Y hat are viewing and into	opportunity, or through sions eventually (give in the backend without fou can test this by createracting with the same test from one tab reflected	it 60 seconds) update you having to press a ating multiple users opportunities/profiles;

	[weight: 10]			
Requirement 12	When viewing lists of profiles, opportunities, etc., all of these results are paginated in an aesthetically pleasing way. See the text of the problem statement for more details. [weight: 1]			
Requirement 14	The app fails gracefully when errors happen. You don't lose all your progress in the registration form when you press submit with invalid data, for instance. When loading a lot of data, the app does not freeze or present a broken UI but instead shows a spinner icon or some other loading indicator while waiting. You are never waiting too long for something to happen in response to user input. The app never "breaks," never displays internal error messages or warnings anywhere on the page, the backend server hosting the solution never crashes, never any HTTP 500 errors, etc. [weight: 1]			
	The app looks good when you view it on a small smartphone-sized screen. One way to simulate this is by using your mouse to drag the right edge of the browser window to the left until it cannot shrink anymore. This shrunken column represents the size of a phone screen. Is the app still usable in this state? Is it visually pleasant? [weight: 2]			
	The app looks good when you view it on a medium tablet-sized screen. To simulate this, make your browser window half the size of your screen (try windows key + left arrow). This simulates the size of a tablet screen. Is the app still usable? Is it visually pleasant? [weight: 1]			
Requirement 15				
Trequirement 10	The app looks good when you view it on a normal desktop/laptop screen. Ensure the browser window is maximized. Is the app still usable? Is it visually pleasant? [weight: 2]			
	Overall, you feel this solution is easy to use. [weight: 1]			
	Overall, you feel this solution is beautiful to look at. [weight: 1]			

Overall, you feel this solution functioned well. App functionality that worked fine when browser window was maximized did not suddenly break when you shrunk the browse simulate a smartphone or a tablet. [weight: 1]			

Instructions: for each of the five criteria below, mark the box that most closely aligns to your impression of the solution's source code after your review. Does their source code meet your expectations of quality? If you notice source code that seems strangely out of place, overly complex, extremely nonsensical, suspiciously unformatted or very badly organized syntactically, or you otherwise infer that students copy-pasted/plagiarized part of their solution's source code from the internet or some illegal source, inform the chief judge immediately. Also, note that you do not have to fill this rubric out in order! If you have any questions at all, please reach out ASAP!

Solution Source Code Review

[total weight: 100]

Criterion	Score			
	0	1	2	3
	Does Not Meet Expectations	Partially Meets	Meets Expectations	Exceeds Expectations
Naming Conventions	Variables should be well-named (e.g. accountSum is good while acsu is bad). There should be few "magic numbers" floating around. The chosen variable naming scheme should be consistent and self-documenting. [weight: 5]			
Organization	The code should be well-organized, with a consistent logical file/directory layout, encapsulation, and proper separation of concerns. Similar units of code should be grouped together in a logical way. If object-oriented language features are used, they should be used properly (i.e. SOLID). [weight: 20]			
Security	The solution should use modern software engineering practices that protect from common XSS, SQL injection, and other security vulnerabilities. Specifically: form input should be properly sanitized and should not be vulnerable to SQL injection attacks (example). User-generated outputs should not be vulnerable to XSS attacks (example). [weight: 20]			
Maintainability and Extensibility	have to rewrite large	portions of the source e reasonable. Pay spe	nat a future group of pro code to add new functi cial care to inflexible ar ht: 20]	onality. Source code
Readability	How easily readabl	e is the source code? I	 Did you have a hard tim	l ne going through it?

	Solution code should be as intuitive and self-documenting as possible. Confusing sections should be documented with comments. There should be few "WTF?!" moments. [weight: 20]			
Efficiency	Any implementations should not be too inefficient. Does some piece of code waste cycles looping or otherwise doing something unnecessary? Is the application wasteful with system resources? Does it make many more network requests than necessary? [weight: 15]			

directly with the students. Please be thorough, encouraging, and fair. **Positive Comments** Please share any positive comments you have for this team. **Constructive Criticism** Please share any unanswered concerns or comments you have for this team. Two Questions For This Team Please share the two most pressing questions you'd like answered about this team's solution. Shared Thoughts (visible to all judges) Please add any thoughts or concerns you believe other judges should be made aware of.

Instructions: please provide any additional comments you have below. Note that your comments are shared