IRT updates (Task 1)

IRT is a website like reddit hosted at irt.projectoblio.com. It aims to get rid of fake accounts on the internet by backing each user with a biometric trust level. This biometric trust level, along with purchased cryptocurrency, can be used to influence votes on the site.

Milestone 1: Each post and comment on the website should have a user expandable caption called "stats". The stats section should have a help symbol called "�" that explains each of these stats in more detail. The stats beneath a post are the following:

 ☻ - a. From the Distribution Form's OAuth2.0 token you must enable "read" access to column or score called "Karma". When a user has a karma between 0 and 50, the text color of their username should be a bolded red. When a user has a karma over 50, the text color of their username should be a bolded orange. When a user has a karma over 100, the text color of their username should be a bolded dark green. These colors should persist anywhere that any user posts across the site -- including when looking at karma from other users. To do this, you can choose to submit a pull request to the https://github.com/Project-Oblio/distribution-form repo to automatically receive the color as part of the CSS when requesting the OAuth2.0 token for IRT.
b. The last bullet described Users with karma. A particular *post* should also have also have a "Karma" score based on those who upvoted it. This is the sum of all the Karma of people who backed it and is given as a "☻ XXX" caption, where XXX is the sum of the karma backing it.

c. ↑ - Within this database there is also a column or score called "Arrows". When a user upvotes a post, they should be shown a display window asking them "How many Arrows would you like to back this post with?". A user can submit from 0 to the maximum amount of Arrows that they own. These Arrows should be "locked" for 24 hours, meaning a database on IRT should keep track of which users have Arrows locked and when their arrows become unlocked. In the stats section beneath the comments, there should be added to a caption beneath the link, next to "comments". For a particular post, this is called the "Arrow score". It can be precedented by this arrow symbol: ↑. As more users upvote the post, its "Arrow score" increases. For example, if user A has 50 Arrows and 40 Arrows(pending), and user B has 30 Arrows and 30 Arrows(pending), and they both upvote a post, the post on the main page now shows "↑150" as a caption.

d. 웃 This is a caption that represents the sum of all users with at least 10 karma who backed a post. So, if a user has 1000 karma, they get one vote in this sum. If a user has 10 karma, they also get one vote in this sum. "2웃″ as a caption. You'll also need to create a running tally of all the number of unique users with at least 10 karma who have logged-in within the last 24 hours. Please make this value "10 karma" a global variable so it can be changed easily.

e. DO not put this inside stats – put it next to "stats": $ This caption represents the estimated number of dollars earned by the user for the post. Every 10 minutes, $3 is generated by the server. This $3 are distributed among the posts and comments who achieved 웃. For example, if there were 200 웃 votes (upvotes by a user with at least 10 karma) in the last 10 minutes across the site, and your comment achieved 2 of them, you'd earn $0.10 for your comment. *Please add fractional arrows to a user's score based on this value, at a rate of

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$0.50 per Arrow-pending. So when a user earns $0.10, really just add
0.2 Arrows-pending to their Arrows-pending score.
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At this point we have 3 metrics for evaluating a post. ☯ is based on the sum of the Karma backing it. ↑ is based on the sum of the Arrows and Arrows(pending) backing it. And the "웃″   value, typically displayed by Reddit, is the sum of each person with at least 10 karma who has contributed. We are going to keep this "upvote" value in the background, but change the value that is displayed there to the user:

3. Keep the "New", "Top", "Hot" ways of sorting a subreddit and comment tree. But for each loaded subreddit post ordering and comment tree, allow the user to sort based on these 3 factors:
"↑" - In a given page, will order it so that only the highest ↑ are shown first. In this display, the "upvotes" number typically used by Reddit is equivalent to the ↑ value. There is no "☯" caption beneath the post for this one.
"☯" - In a given page, will order it so that only the highest ☯ are shown first. In this display, the "upvotes" number next to the post typically used by Reddit is equivalent to the ☯ value. There is no
"웃" - In a given page, will order it so that only the `highest 웃  are shown.`
"↑+웃 " - (Default) In this case post scores will typically range from 0 to 100. The post score is computed as an function of the ↑ and ☯ values:
---> We first need to turn ↑ into a score between 0 and 100. For the ↑ part, first it will sum all of the Arrows and Arrows (pending) within the database (please run this query once per hour and keep the updated value as a global variable in memory). If 150 ↑ have upvoted, but there are 1,000↑ in the database total (summed), this means 850 ↑ have not voted. The function splits the 850 votes and divides by 5. So if 150 have upvoted, and 850 have not voted, the total upvotes is 150 + 850/2/5 or 235. If 0 have downvoted (downvotes are disabled), and 850 have not voted, the total number of downvotes is 850/2/5 or 85. The total score is upvotes/(upvotes+downvotes), meaning the score is 235/(235+85) or 0.73. We then multiply by 100 to get 73 (not visible to the user). Please make the "2" and "5" values global so they can be changed easily.
---> Next we need to turn 웃 into a score between 0 and 100. For this we look at the site's total daily active users (unique users who have logged-in). If `10웃  have upvoted, and 100 have logged-in to the site today, the 90 users who didn't vote have their votes split like before. However, please make the "2" and "5" values separate global variables from the ⚹ ones that can be changed. (10+4.5)/(10+9) = 0.76. Multiplied by 100 = 76.`
`--→ These values (73 from ⚹)  and (76 from 웃  ) are then averaged together to get the 웃  + ⚹ metric: 74.5`

4. a. Anybody can upvote (even users with less than 10 karma), but to make a comment or submit a post, a user needs 1) At least 10 karma 2) A "last dub time" that was less than 3 days ago. Each time a user makes a comment, the comment should check the user's "last dub time" within the database. If a user's last dub time was more than 3 days ago, you'll redirect them to a new website in a pop-up window before a user can comment. You don't have to worry about anything here except checking a column in a database, seeing if it was more than 3 days ago, and creating an alert window to redirect the user. Create a window that says. "Last dub was more than 3 days ago. Perform a dub to comment or post." then a button that links to "dubs.projectoblio.com".
b. Last but not least, on a User's public profile page, create a link to distribution.projectoblio.com/

{{username}}, where {{username}} is the user's username. You can keep the original profile page, just say, "You can audit {{username}} **here*" , where "here" contains a link to the profile.**

5. You'll need to swap our logo, background image, and general color scheme of the instance. I will provide you with this graphics when you are ready for them.