Skills Test S2, Version A

COMP 4081 • Software Engineering • Fall 2019

Name: _____ , _____
    Last name   First name

Rules:

- No potty breaks.
- No devices, except for your laptop.
- Paper notes are allowed. Having digital notes on your laptop is allowed.
- Closed neighbor.
- No texting/messaging/posting. Searching the web for documentation and existing forum posts is OK.

Reminders:

- Don't forget to write your name.
- Read the instructions <u>carefully</u>.
- Don't forget to complete <u>all</u> requirements.

BEFORE you open this test:

- Start the screen-capture recording (e.g., using OBS).
- In your web browser, google the query string "current time", so the current time is displayed and captured in the recording.

For this skills test, you must do the following:

1. In your VM, clone the Git repo at https://github.com/memphis-cs/s02a-app-2019-08fall. It contains a Rails project that you will work with. To initialize the project, do the following:
    *   Install the Gems for the project using `bundle`, and install the JavaScript dependencies for the project using `yarn`.
    *   Create the PostgreSQL databases for the app using these three commands:

```
sudo -i -u postgres psql -c "CREATE DATABASE skills_test_development OWNER vagrant;"
sudo -i -u postgres psql -c "CREATE DATABASE skills_test_test OWNER vagrant;"
sudo -i -u postgres psql -c "CREATE DATABASE skills_test_production OWNER vagrant;"
```

    *   Migrate and reset the database using `rails`.

You should now be able to run the Rails web server, and view the page http://localhost:3000/s02a in your web browser.

2. Add a page to the app that looks exactly like Figure 1, subject to the following additional requirements:
    *   The URL for your page must also match the figure.
    *   The hyperlink should link to the `s02a` page mentioned above.
    *   The image is included in the top-level repo folder; however, you must be move it to the appropriate subfolder in order to use it. Also, your code should scale the image to have a height of 100 pixels.
    *   You must use the appropriate Rails helper methods to make the hyperlink and image elements. That includes using the "path" helper instead of hardcoding a hyperlink path/URL.
    *   To create the page, in addition to the helper methods, you must use the following HTML elements: `form`, `h1`, `h2`, `input`, and `p`.
    *   The controller action for the page must explicitly respond to the format requested and explicitly render the appropriate view.
    *   The project already has a `PagesController` class. You must use this class in your solution (modifying it as necessary). Do not add a new controller class.

    Take a screenshot that shows the page (including the entire browser window), and save it with the file name `screenshot` (and whatever file suffix is appropriate).

3. The root route currently goes to a default Rails page (see http://localhost:3000/). Change the root route to <u>redirect</u> to the page you created instead.

Once you've completed all of the above, zip up your Rails project and upload the Rails project zip, the screenshot, and your `.flv` video recording to the eCourseware dropbox labeled `Skills Test S2, Version A`.
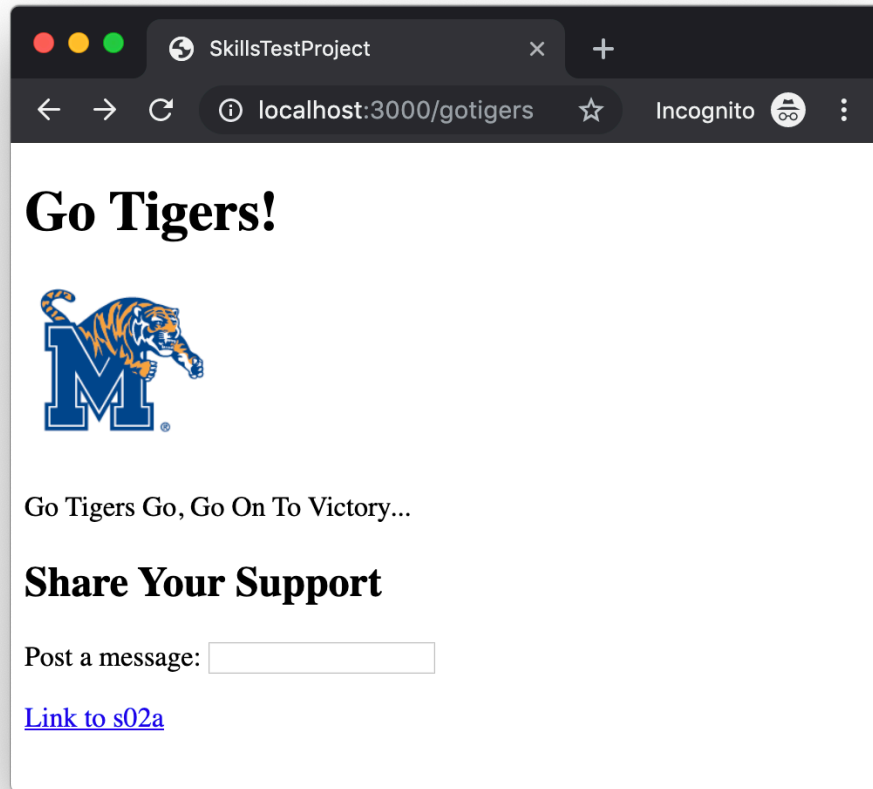
Figure 1