

## **Oluwatoni Oshikanlu**

What was your experience after trying out a screen reader?

The screen reader was smoother than I had expected. It read out the section of the webpage which I currently was on which made it easier for me to know if I was still on a particular section of the page or whether I was on a tab and so on. Though the voice was pretty robotic it was smooth enough that it did not feel to clunky and I was able to follow along. I even tried closing my eyes and using a screen reader in order to simulate how visually impaired individuals feel.

What did you learn?

I learned that it is important to develop your website in a manner that would allow the users of screen readers accurately navigate your webpage.

Try one site, *not your project site*, with a screen reader. What site was it?

Bcourses.berkeley.edu

How easy or hard was it to navigate?

It was fairly easy to navigate. I felt that the website had been adapted for screen readers.

Now, try *your own project site*, with a screen reader. What site was it?

Sage Mentorship Project Website(on a localhost for now)

How easy or hard was it to navigate?

It was pretty confusing.

Try one site, *not your project site*, with a screen reader(keyboard experience). What site was it?

facebook.com

How easy or hard was it to navigate?

It was fairly easy to navigate. I felt that the website had been adapted for screen readers.

Now, try *your own project site*, with a screen reader. What site was it? How easy or hard was it to navigate?

Sage Mentorship Project Website(on a localhost for now), It was pretty confusing.

## **Raj Giri**

What was your experience after trying out a screen reader?

When I tried the screen reader I had good experience with the voice than I expected. The voice was at right tempo and I was able to understand everything that it was reading out of the screen. It read each section of the website helped me track down on what section of page i am currently. I felt that it was really helpful for people who are visually impaired.

What did you learn?

I learned that not only normal people uses the site you make, there will be disabled people too who will use your app at some point. So it is equally important to build a site that is compatible for all the people by adding accessibility options to your page.

Try one site, *not your project site*, with a screen reader. What site was it?

facebook.com

How easy or hard was it to navigate?

It was easy to navigate. The website has feature for screen readers.

Now, try *your own project site*, with a screen reader. What site was it?

Sage Mentorship Project Website(on a localhost for now)

How easy or hard was it to navigate?

It was pretty confusing.

Try one site, *not your project site*, with a screen reader(keyboard experience). What site was it?

google.com

How easy or hard was it to navigate?

It was easy to navigate. The website has feature for screen readers.

Now, try *your own project site*, with a screen reader. What site was it? How easy or hard was it to navigate?

Sage Mentorship Project Website(on a localhost for now), It was pretty confusing.

## **Kaushik Mishra**

What was your experience after trying out a screen reader?

I have tried many screen readers before that lagged and broke but this screen recorder was very smooth. I liked the fact that it read everything on the website sequentially. I just wished the voice was a bit natural however, I the pace of the voice felt natural.

What did you learn?

I learned that universal accessibility is a very important and Try one site, *not your project site*, with a screen reader. What site was it?  
gmail.com

How easy or hard was it to navigate?

It was fairly easy to navigate.

Now, try *your own project site*, with a screen reader. What site was it?

Sage Mentorship Project Website(on a localhost for now)

How easy or hard was it to navigate?

- It was easy to navigate this page

Try one site, *not your project site*, with a screen reader(keyboard experience). What site was it?

- Facebook

How easy or hard was it to navigate?Now, try *your own project site*, with a screen reader. What site was it? How easy or hard was it to navigate?

- It was easy to navigate. The website has feature for screen readers.

## **Raymond Gyabeng**

What was your experience after trying out a screen reader?

- It was quite unclear what to do initially and slow to navigate but reasonably easy enough to follow.

What did you learn?

- I realized how we actually build many systems and platforms without thinking of making it accessible to some group of people and felt the need to value more of that.

Try one site, *not your project site*, with a screen reader. What site was it?

- Wikipedia

How easy or hard was it to navigate?

- It was easy to follow and navigate this page

Now, try *your own project site*, with a screen reader. What site was it?

- Sage Mentorship Project Website

How easy or hard was it to navigate?

- It was really hard especially starting from the login page.

Try one site, *not your project site*, with a screen reader(keyboard experience). What site was it?

- Facebook

How easy or hard was it to navigate?

- It was quite hard as well when I tried to navigate without visualizing what I already knew about the platform other than that it was okay to navigate the page with the keyboard experience.

Now, try *your own project site*, with a screen reader. What site was it? How easy or hard was it to navigate?

- Sage Mentorship Project Website. It was still really hard to navigate our website. I think our login page with google authentication is still really hard and could have been build to become more accessible

## **Nicholas Ruhman**

What was your experience after trying out a screen reader?

- It was slow but generally usable on some of the more popular web pages. I found it distracting to have my key presses read aloud in addition to what was on the webpage.

What did you learn?

- I was familiar with the concept already and have seen blind people use them fairly quickly. It was obviously jarring at first but based on what I've seen in videos before it is something that you can become proficient with.

Try one site, *not your project site*, with a screen reader. What site was it?

- amazon.com

How easy or hard was it to navigate?

- It was easy enough but you had to tab quite a bit to move around.

Now, try *your own project site*, with a screen reader. What site was it?

- rocky-tundra-90969.herokuapp.com

How easy or hard was it to navigate?

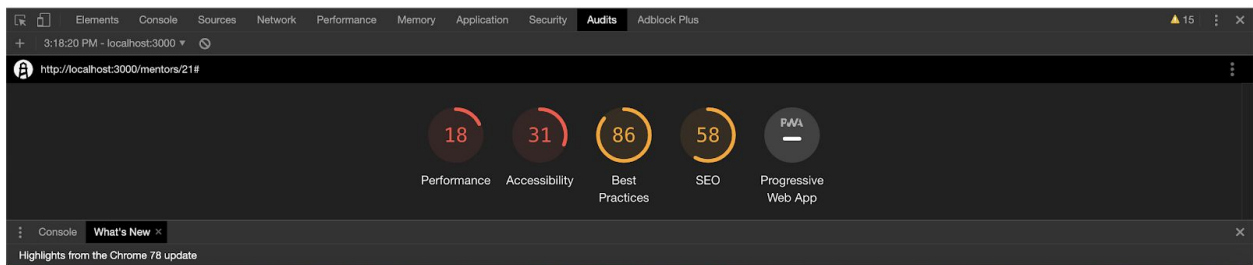
- It was basically unuseable. Could not log in from the main page by using a screen reader. After logging in with mouse and keyboard I also found that you can access links with the screen reader but cannot read anything else, including nearly all the data in our data tables.

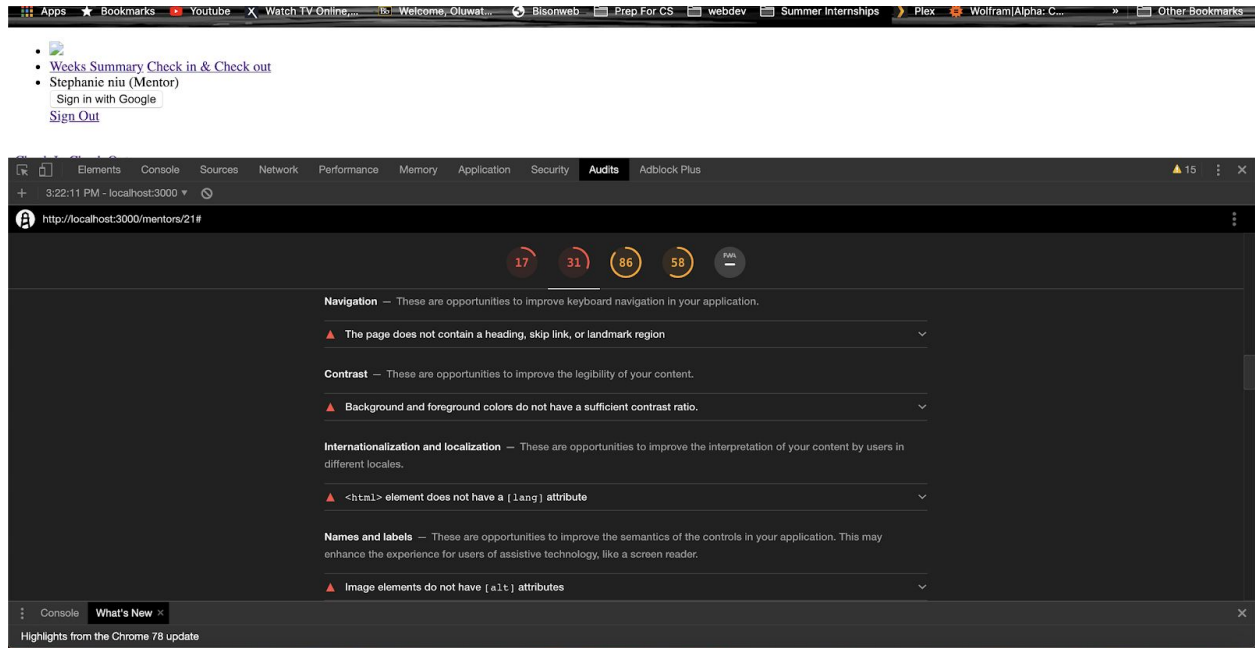
## Team Answers

What did the accessibility tests from Audits tab in Chrome report? \* Include the route in your report along with screenshots. What did the tests from Accessibility Insights "Fast Pass" report?

Audits Tab Issues:

1. The page does not contain a heading, skip link, or landmark region
2. Background and foreground colors do not have a sufficient contrast ratio.
3. <html> element does not have a [lang] attribute
4. Image elements do not have [alt] attributes
5. Links do not have a discernible name





localhost:3000/mentors/21

Accessibility Insights Report:

localhost:3000/mentors/21

1. bypass: Page must have means to bypass repeated blocks (1) WCAG 2.4.1
2. color-contrast: Elements must have sufficient color contrast (2) WCAG 1.4.3
3. html-has-lang: `<html>` element must have a `lang` attribute (1) WCAG 3.1.1
4. image-alt: Images must have alternate text (1) WCAG 1.1.1
5. link-name: Links must have discernible text (1) WCAG 2.4.4, WCAG 4.1.2

Accessibility Insights for Web

Target page: Sage Mentorship Check-in Application

### Automated checks results

#### Summary

6 Failed 8 Passed 38 Not applicable

#### Scan details

<http://localhost:3000/mentors/21#>  
2019-12-04 11:15 PM UTC

#### Failed instances 6

- 1 **bypass:** Ensures each page has at least one mechanism for a user to bypass navigation and jump straight to the content
- 2 **color-contrast:** Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds
- 1 **html-has-lang:** Ensures every HTML document has a lang attribute

Accessibility Insights for Web FastPass

Target page: Sage Mentorship Check-in Application

1 Automated checks

2 Tab stops

The Target page is in a hidden state. For better performance, use the Target page link above to make the page visible.

### Automated checks

Automated checks can detect some common accessibility problems such as missing or invalid properties. But most accessibility problems can only be discovered through manual testing. The best way to evaluate web accessibility compliance is to complete an [assessment](#).

Show failures ☒ On

Export result

6 failures were detected. When the Automated Checks toggle is on, failure instances selected in this page are highlighted in the target page.

<input checked="" type="checkbox"/>	Path	Snippet	How to fix
<input checked="" type="checkbox"/>	> <b>bypass:</b>	Page must have means to bypass repeated blocks <span>1</span> WCAG 2.4.1	
<input checked="" type="checkbox"/>	> <b>color-contrast:</b>	Elements must have sufficient color contrast <span>2</span> WCAG 1.4.3	
<input checked="" type="checkbox"/>	> <b>html-has-lang:</b>	<html> element must have a lang attribute <span>1</span> WCAG 3.1.1	
<input checked="" type="checkbox"/>	> <b>image-alt:</b>	Images must have alternate text <span>1</span> WCAG 1.1.1	
<input checked="" type="checkbox"/>	> <b>link-name:</b>	Links must have discernible text <span>1</span> WCAG 2.4.4, WCAG 4.1.2	

#### Failure details

Select a single failure instance from a group in the table above to see more details here.

Run the more complex "Assessment" from Accessibility Insights. Run this on a different page, if possible. Ideally, the most complex page in your application. This will aid you in manually assessing the compliance of your page. Were you surprised by these tests? Do you disagree with any of the results? Are there any errors that appear on multiple pages? What are they? How might you fix them?

1. No we weren't surprised
2. No we don't
3. No
4. N/A
5. N/A

http://localhost:3000/supers/10#

Accessibility Insights for Web Assessment

Target page: Sage Mentorship Check-in Application Export result Start over

Overview 4% Completed

Automated checks

Keyboard

Focus

Landmarks

Headings

Repetitive content

Links

Native widgets

Custom widgets

Timed events

Errors / status

Page navigation

Parsing

Images

Language

Sensory

Automated checks

Getting Started

Accessibility Insights for Web automated accessibility checks can detect some of the most common accessibility issues, depending on the complexity of the site or the application.

Requirements

color-contrast. Elements must have sufficient color contrast. ✖

color-contrast

Visual helper Off

How to test

Elements must have sufficient color contrast. See more info here.

html-has-lang. <html> element must have a lang attribute. ✖

image-alt. Images must have alternate text. ✖

link-name. Links must have discernible text. ✖

accesskeys. accesskey attribute value must be unique. ✔

area-alt. Active <area> elements must have alternate text. ✔

aria-allowed-attr. Elements must only use allowed ARIA attributes. ✔

aria-hidden-body. aria-hidden='true' must not be present on the document body. ✔

Scanning

Pick 2 (non alt-text related) errors to address.

What was the error you are addressing? How did you address it? In your report, include a sample of before-and-after code.

I will address the 'html-has-lang: <html> element must have a lang attribute' error. I addressed it by adding the appropriate language html tag attribute and setting it to english.

Before:



```
1 %br
2 =link_to "Check In", mentor_checkin_path, class: "btn btn block", :onclick => '
3   getLocation_checkin()', :remote => true
4 =link_to "Check Out", mentor_checkout_path, class: "btn btn block", :onclick => '
   getLocation_checkout()', :remote => true
```

Line 1, Column 1; Saved ~/Documents/CS/CS169/Sage-Mentorship-Project/app/views/mentors/appointment.html.haml (UTF-8) master Tab Size: 4 Ruby Haml

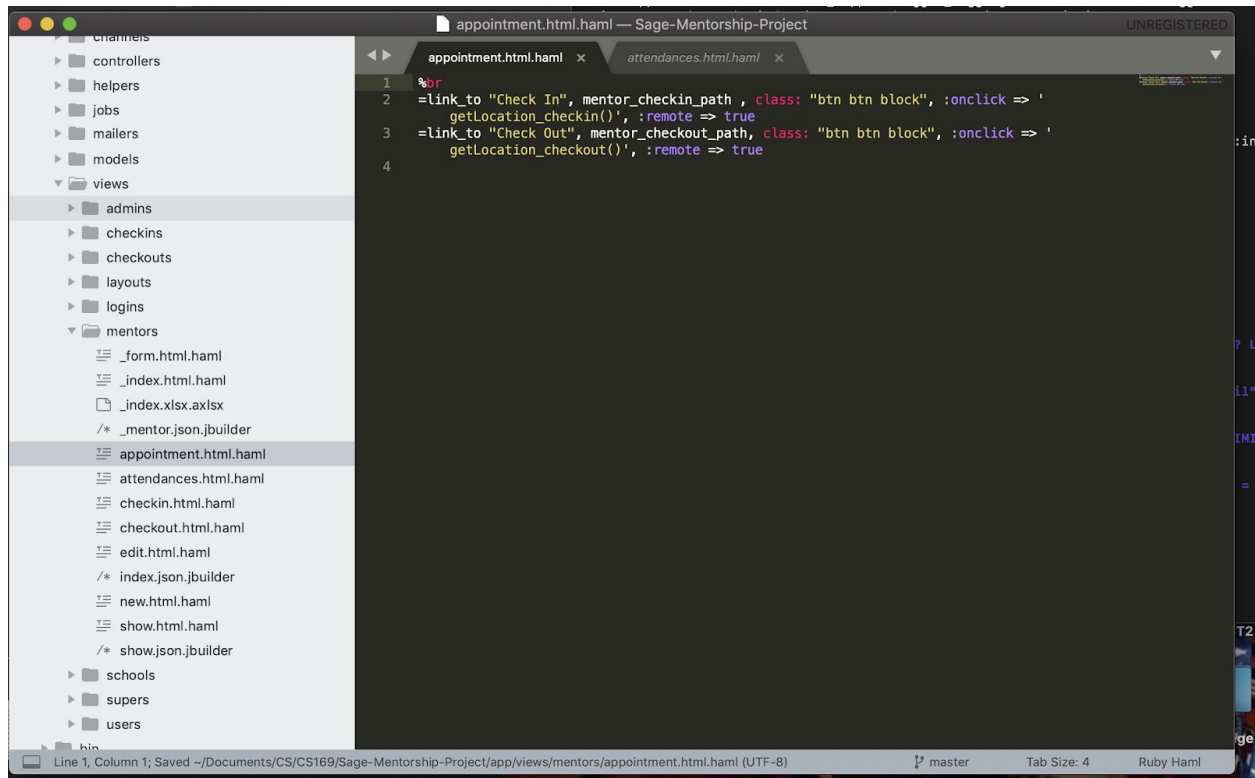
After:

```
1 %html{:lang => "en"}
2 %br
3 =link_to "Check In", mentor_checkin_path, class: "btn btn block", :onclick => '
4   getLocation_checkin()', :remote => true
5 =link_to "Check Out", mentor_checkout_path, class: "btn btn block", :onclick => '
   getLocation_checkout()', :remote => true
```

Line 3, Column 16 master Tab Size: 4 Ruby Haml

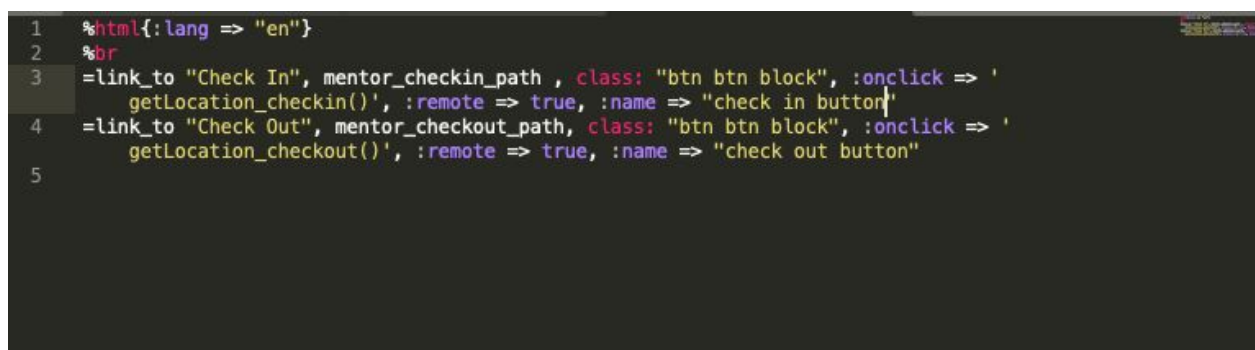
I will address the 'link-name: Links must have discernible text' error. I addressed it by adding link names where needed.

Before:



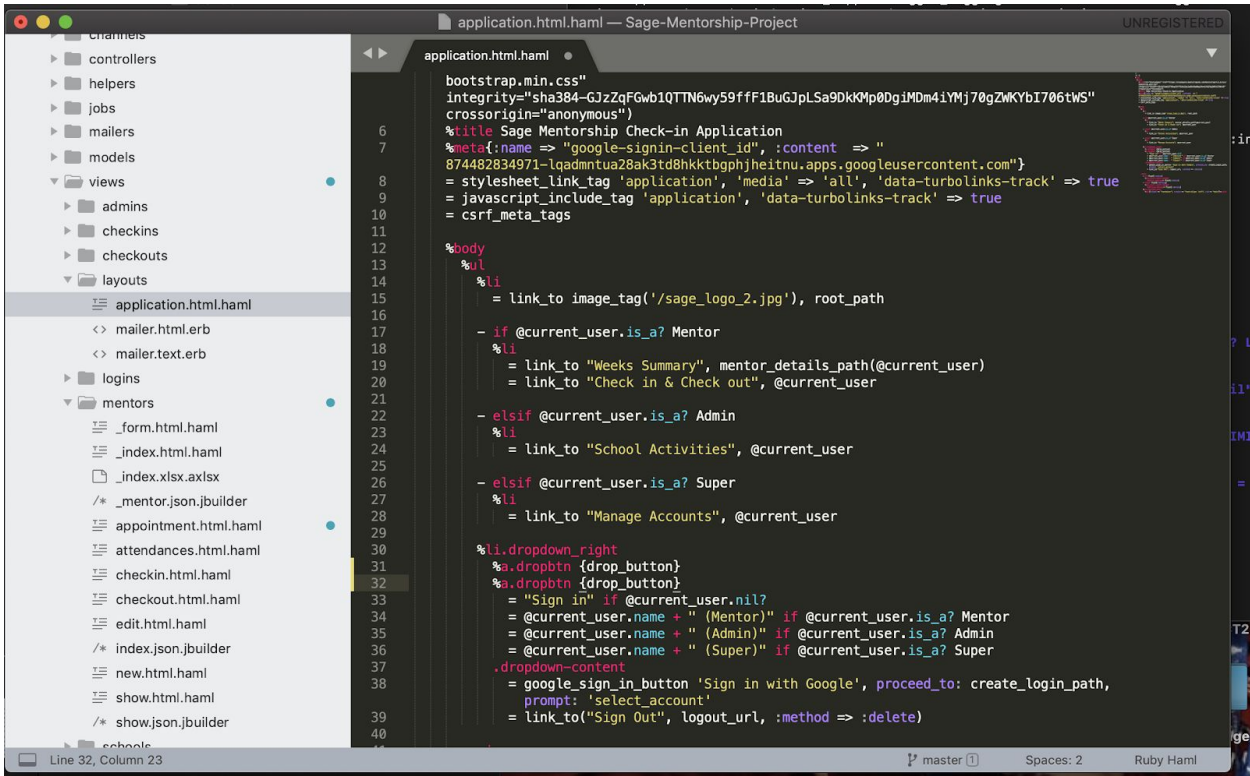
```
1 %br
2 =link_to "Check In", mentor_checkin_path, class: "btn btn block", :onclick => '
  getLocation_checkin()', :remote => true
3 =link_to "Check Out", mentor_checkout_path, class: "btn btn block", :onclick => '
  getLocation_checkout()', :remote => true
4
```

After:



```
1 %html{:lang => "en"}
2 %br
3 =link_to "Check In", mentor_checkin_path, class: "btn btn block", :onclick => '
  getLocation_checkin()', :remote => true, :name => "check in button"
4 =link_to "Check Out", mentor_checkout_path, class: "btn btn block", :onclick => '
  getLocation_checkout()', :remote => true, :name => "check out button"
5
```

BEFORE:



```
bootstrap.min.css"
integrity="sha384-GJzZfGwb1QTTN6wy59ff1BucGjPLSa9DkKMP0DgiMDm4iYMj70gZWKYbI706tWS"
crossorigin="anonymous")
%title Sage Mentorship Check-in Application
%meta{:name => "google-signin-client_id", :content => "
874482834971-lqadmmtua28ak3td8hkktbgphjheitu.apps.googleusercontent.com"}
= stylesheet_link_tag 'application', 'media' => 'all', 'data-turbolinks-track' => true
= javascript_include_tag 'application', 'data-turbolinks-track' => true
= csrf_meta_tags

%body
%ul
  %li
    = link_to image_tag('/sage_logo_2.jpg'), root_path

  - if @current_user.is_a? Mentor
    %li
      = link_to "Weeks Summary", mentor_details_path(@current_user)
      = link_to "Check in & Check out", @current_user

  - elsif @current_user.is_a? Admin
    %li
      = link_to "School Activities", @current_user

  - elsif @current_user.is_a? Super
    %li
      = link_to "Manage Accounts", @current_user

  %li.dropdown_right
    %a.dropbtn {drop_button}
    %a.dropbtn {drop_button}
    = "Sign in" if @current_user.nil?
    = @current_user.name + " (Mentor)" if @current_user.is_a? Mentor
    = @current_user.name + " (Admin)" if @current_user.is_a? Admin
    = @current_user.name + " (Super)" if @current_user.is_a? Super
  .dropdown-content
    = google_sign_in_button 'Sign in with Google', proceed_to: create_login_path,
      prompt: 'select_account'
    = link_to("Sign Out", logout_url, :method => :delete)
```

AFTER:

```

!!! 5
%html
%head
  %link(rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/css/
  bootstrap.min.css"
  integrity="sha384-GJzZqFGwb1QTTN6wy59ffF1BuGJpLSa9DkKMP0DgiMDm4iYMj70gZwKYbI706tWS"
  crossorigin="anonymous")
  %title Sage Mentorship Check-in Application
  %meta{:name => "google-signin-client_id", :content => "
  874482834971-lqadmntua28ak3td8hkktbgphjheitnu.apps.googleusercontent.com"}
  = stylesheet_link_tag 'application', 'media' => 'all', 'data-turbolinks-track' => true
  = javascript_include_tag 'application', 'data-turbolinks-track' => true
  = csrf_meta_tags

%body
  %ul
    %li
      = link_to image_tag('/sage_logo_2.jpg'), root_path, :name => "Sage Mentorship Image"

    - if @current_user.is_a? Mentor
      %li
        = link_to "Weeks Summary", mentor_details_path(@current_user), :name => "Weekly
        Summary tab"
        = link_to "Check in & Check out", @current_user, :name => "Check in and Checkout
        tab"

    - elsif @current_user.is_a? Admin
      %li
        = link_to "School Activities", @current_user, :name => "School Activities link"

    - elsif @current_user.is_a? Super
      %li
        = link_to "Manage Accounts", @current_user, :name => "Manage Accounts link"

    %li.dropdown_right
      %a.dropbtn
      %a.dropbtn
        = "Sign in" if @current_user.nil?
        = @current_user.name + " (Mentor)" if @current_user.is_a? Mentor
        = @current_user.name + " (Admin)" if @current_user.is_a? Admin
        = @current_user.name + " (Super)" if @current_user.is_a? Super
      .dropdown-content
        = google_sign_in_button 'Sign in with Google', proceed_to: create_login_path,
        prompt: 'select_account'
        = link_to("Sign Out", logout_url, :method => :delete), :name => "Sign out link"

  .main
    - if flash[:notice]
      %div.alert.alert-danger
        #notice.message= flash[:notice]
    - elsif flash[:warning]
      %div.alert.alert-danger
        #warning.message= flash[:warning]
    %div.yielded_area
      %div{:class => "container", :style => "text-align: left", :id => "main"}=yield

```

