

SOFTWARE ENGINEERING PROJECT REPORT

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SOFTWARE

Software is a set of instructions, data or programs used to operate computers and execute specific tasks. It is the opposite of hardware, which describes the physical aspects of a computer. Software is a generic term used to refer to applications, scripts and programs that run on a device. It can be thought of as the variable part of a computer, while hardware is the invariable part.

SOFTWARE ENGINEERING

The term **software engineering** is the product of two words, **software**, and **engineering**.

The **software** is a collection of integrated programs. Software subsists of carefully-organized instructions and code written by developers on any of various particular computer languages.

Computer programs and related documentation such as requirements, design models and user manuals.

Engineering is the application of scientific and practical knowledge to invent, design, build, maintain, and improve frameworks, processes, etc.

Software Engineering is an engineering branch related to the evolution of software product using well-defined scientific principles, techniques, and procedures. The result of software engineering is an effective and reliable software product.

OUR PROJECT

The main purpose of our project is to pick an Open source software, find possible bugs and debug them to achieve a better version of the software.

But first we need to know about open source software and debugging.

OPEN SOURCE SOFTWARE

The term open source refers to something people can modify and share because its design is publicly accessible.

The term originated in the context of software development to designate a specific approach to creating computer programs. Today, however, "open source" designates a broader set of values—what we call "the open source way." Open source projects, products, or initiatives embrace and celebrate principles of open exchange, collaborative participation, rapid prototyping, transparency, meritocracy, and community-oriented development.

Open source software is software with source code that anyone can inspect, modify, and enhance.

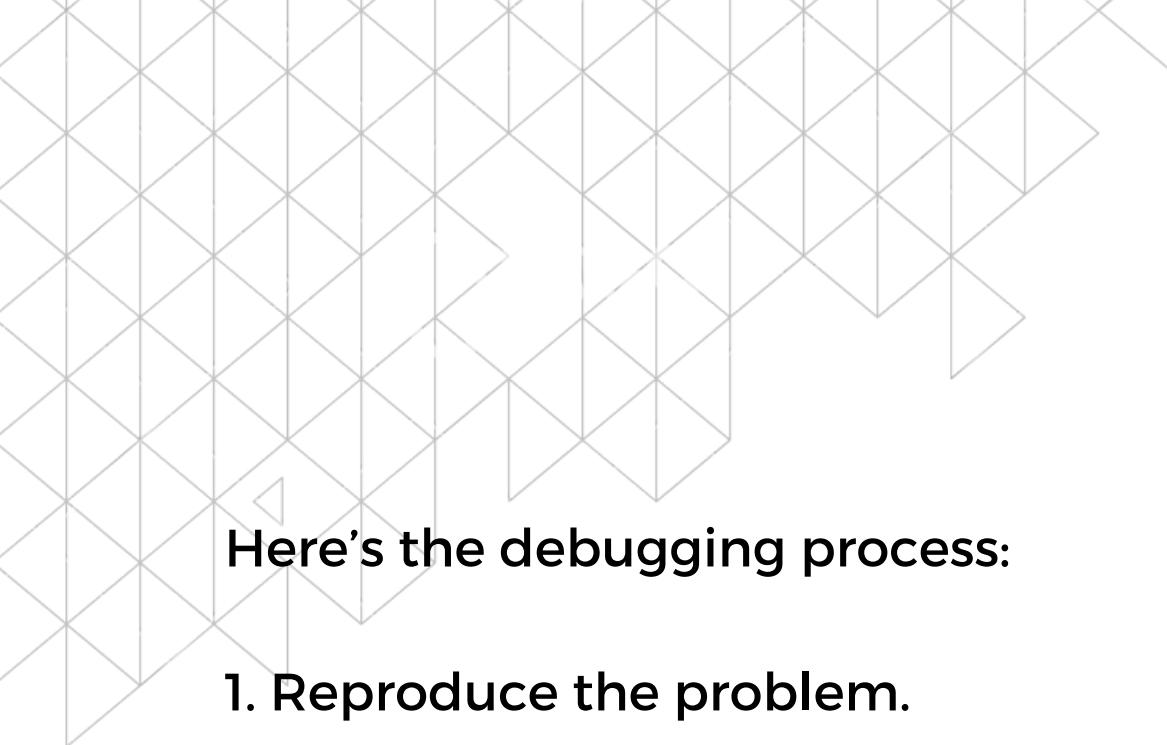
"Source code" is the part of software that most computer users don't ever see; it's the code computer programmers can manipulate to change how a piece of software—a "program" or "application"—works. Programmers who have access to a computer program's source code can improve that program by adding features to it or fixing parts that don't always work correctly.

DEBUGGING

Debugging is the process of detecting and removing of existing and potential errors (also called as ‘bugs’) in a software code that can cause it to behave unexpectedly or crash. To prevent incorrect operation of a software or system, debugging is used to find and resolve bugs or defects. When various subsystems or modules are tightly coupled, debugging becomes harder as any change in one module may cause more bugs to appear in another. Sometimes it takes more time to debug a program than to code it.

HOW TO DEBUG

To debug a program, user has to start with a problem, isolate the source code of the problem and then fix it. Users of a program must know how to fix the problem as knowledge about problem analysis is expected. When the bug is fixed, then the software is ready to use. Debugging tools (called debuggers) are used to identify coding errors at various development stages. They are used to reproduce the conditions in which error has occurred, then examine the program state at that time and locate the cause. Programmers can trace the program execution step-by-step by evaluating the value of variables and stop the execution wherever required to get the value of variables or reset the program variables. Some programming language packages provide a debugger for checking the code for errors while it is being written at run time.



Here's the debugging process:

- 1. Reproduce the problem.**
 - 2. Describe the bug. Try to get as much input from the user to get the exact reason.**
 - 3. Capture the program snapshot when the bug appears. Try to get all the variable values and states of the program at that time.**
 - 4. Analyze the snapshot based on the state and action. Based on that try to find the cause of the bug.**
 - 5. Fix the existing bug but also keep a check on that no other bug occurs due to the fixation of the last bug.**
- 

SELECTING AN OPEN SOURCE SOFTWARE

We need to have some standard criteria to base our decisions on selecting a particular open source software as adding a problematic open source component may end up with a lot of obstacles.

An open source solution with lesser popularity and with very few key features/plugins that solve all our requirements will always be a better choice than the one which is popular and is providing hundreds of features but doesn't serve our requirements.

One question we should always ask ourselves before selecting an open source software is that “Do we have the required skills to debug & deploy that particular software?”. We should always choose an open source software which can be used and maintained by presently available skill set. However, if learning of the new skill set serves all the requirements and it is actually worth learning which will help to reduce the project cost in future then one can go for it.

Always check whether the open source software you selected has a good Community Support or not. Good community support will always help you fix problems which might occur since the data is transparent and is easily accessible to the whole community.

Always look at the license first before choosing software.

Keeping all these things in mind we selected our OSS as a **website** of an organization called "**Outreachy**" from [Github.com](https://github.com).

ABOUT OUTREACHY

Outreachy provides internships in open source and open science. It is a diversity initiative of Software Freedom Conservancy.

It provides internships to people subject to systemic bias and impacted by underrepresentation in the technical industry where they are living.

The internships are 3 months long. Interns are paid an internship stipend of \$7,000 USD.

Interns work with experienced mentors from open source communities. Outreachy internship projects may include programming, user experience, documentation, illustration, graphical design, data science, project marketing, user advocacy, or community event planning.

Outreachy internships are open to applicants around the world. Interns work remotely. Interns are not required to move. We expressly invite women (both cis and trans), trans men, and genderqueer people to apply. We also expressly invite applications from residents and nationals of the United States of any gender who are Black/African American, Hispanic/Latinx, Native American/American Indian, Alaska Native, Native Hawaiian, or Pacific Islander.

Anyone who faces under-representation, systemic bias, or discrimination in the technology industry of their country is invited to apply.

Outreachy Website: <https://www.outreachy.org/>

Github Repo: <https://github.com/outreachy/website/>



TECHNOLOGY USED IN OUTREACHY WEBSITE

COMMONLY USED TECHNOLOGY

The Outreachy website is built with [Python](#) and a web framework called [Django](#).

Django allows us to build HTML using the [Django Templating Language](#).

The Outreachy website uses the [Bootstrap](#) framework for [CSS](#) and UI elements.

LESSER USED TECHNOLOGY

There are a few pages that use [jQuery](#).

The Outreachy website uses a content management system called [Wagtail](#), which builds on top of Django.

Deployed using [Dokku](#).



SETTING UP DEVELOPMENT ENVIRONMENT

- Install [python](#) and set it on path in environment variable.
- Install [Node.js](#) and set it on path in environment variable.
- Install pipenv
 - open cmd and run command : [pip install pipenv](#). pipenv will be used to create virtual environment and install dependencies required for the website.
- Clone website repository for source code:
 - open destination folder where you want to clone code.
 - then type command in cmd.
 - [git clone https://github.com/outreachy/website.git](#).
- Now to create virtual environment and install the python dependencies specified in the pipfile.
 - run command :
 - `cd website`
 - `pipenv install`
- Now, to activate the virtual environment
 - `pipenv shell`
- We also need to install some Node.js packages, these will be placed in a [node_modules](#) directory inside our project folder
 - Make sure you have [npm](#) installed, then run:
 - `npm install`

- To create a new database with the models in the Outreachy website, type following command :
 - `./python manage.py migrate`
- The next step is to create an admin account for the local website.
 - `./python manage.py createsuperuser`
- To run tests
 - `./python manage.py test`
- To run project in localserver
 - `./python manage.py runserver`

DEBUGGING & IMPROVEMENTS

We found various bugs and room for modifications on the Outreachy Website, We classified them into 4 parts and worked on them.

- **Resolved Bugs & Improvements**
- **Design Bugs & Improvements**
- **Bonus Modifications**
- **Added features**

Now, let's discuss these debugs & improvements

1. RESOLVED BUGS & IMPROVEMENTS

Zero bug software is a myth. Bugs are very common in today's software and a great part of their lifecycle consists of resolving them.

Why? Well, because the error is human. It is as simple as that.

We found some bugs in Outreachy too.

One of them is making sure that whether the **user is a human or a bot by the help of a captcha**. While creating account or logging into them on many softwares and websites we have to go through multiple steps and one of which is dedicated to this part where we have to answer questions in order to separate real users and get rid of bots disguised as humans.

LOGIN PAGE AT OFFICIAL SITE:

The screenshot shows a web browser window with the URL <https://www.outreachy.org/login/?next=/>. The page has a teal header bar with the word "OUTREACHY" and a "Log In" button. Below the header, there are navigation links for "Applicants", "Communities", "Interns", "Donors", and "About Us". The main content area is titled "Log in" and contains a message: "Please login to see this page." It also includes a "New Account" section with a "Create Account" button and an "Existing Account" section with fields for "Username" and "Password", followed by "Login" and "Forgot your password?" buttons.

Log in

Please login to see this page.

New Account

Don't have an account? You can create a new one.

[Create Account](#)

Existing Account

Please note the login form accepts only usernames, not email addresses. The account verification email will contain your username.

Username:

Password:

[Login](#)

[Forgot your password?](#)



REGISTRATION PAGE AT OFFICIAL SITE:

The screenshot shows a web browser window with the URL <https://www.outreachy.org/>. The page has a teal header bar with the word "OUTREACHY" and a "Log In" button. Below the header, there are navigation links for "Applicants", "Communities", "Interns", "Donors", and "About Us". The main content area contains fields for "Username", "Email address", "Password", and "Password confirmation". A green "Create Account" button is at the bottom. Below the "Create Account" button, there is a link for users who already have an account: "Already have an account? [Login.](#)". A purple arrow points from the "Create Account" button towards the "Login" link.

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email address:

Password:

Password confirmation:

Enter the same password as before, for verification.

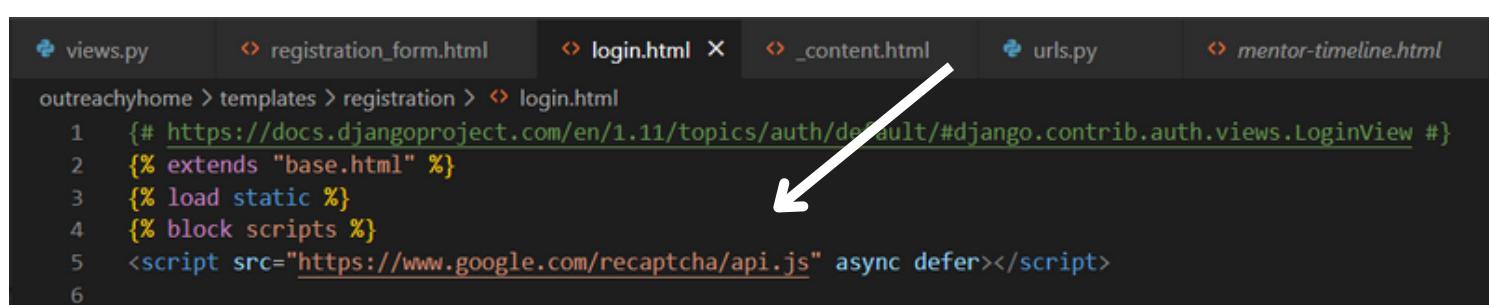
[Create Account](#)

Already have an account? [Login.](#)

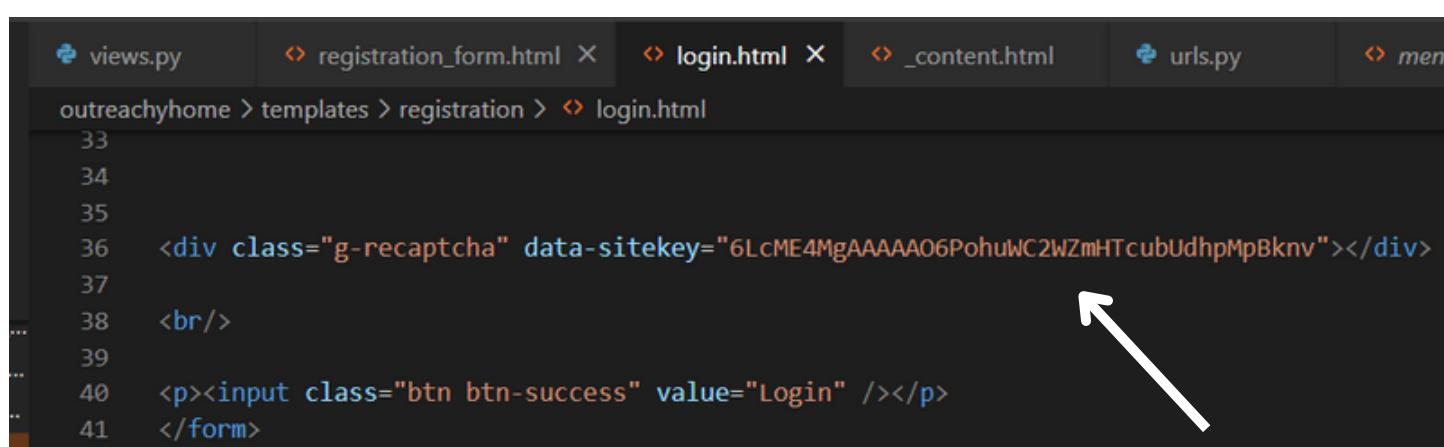


To add captcha :

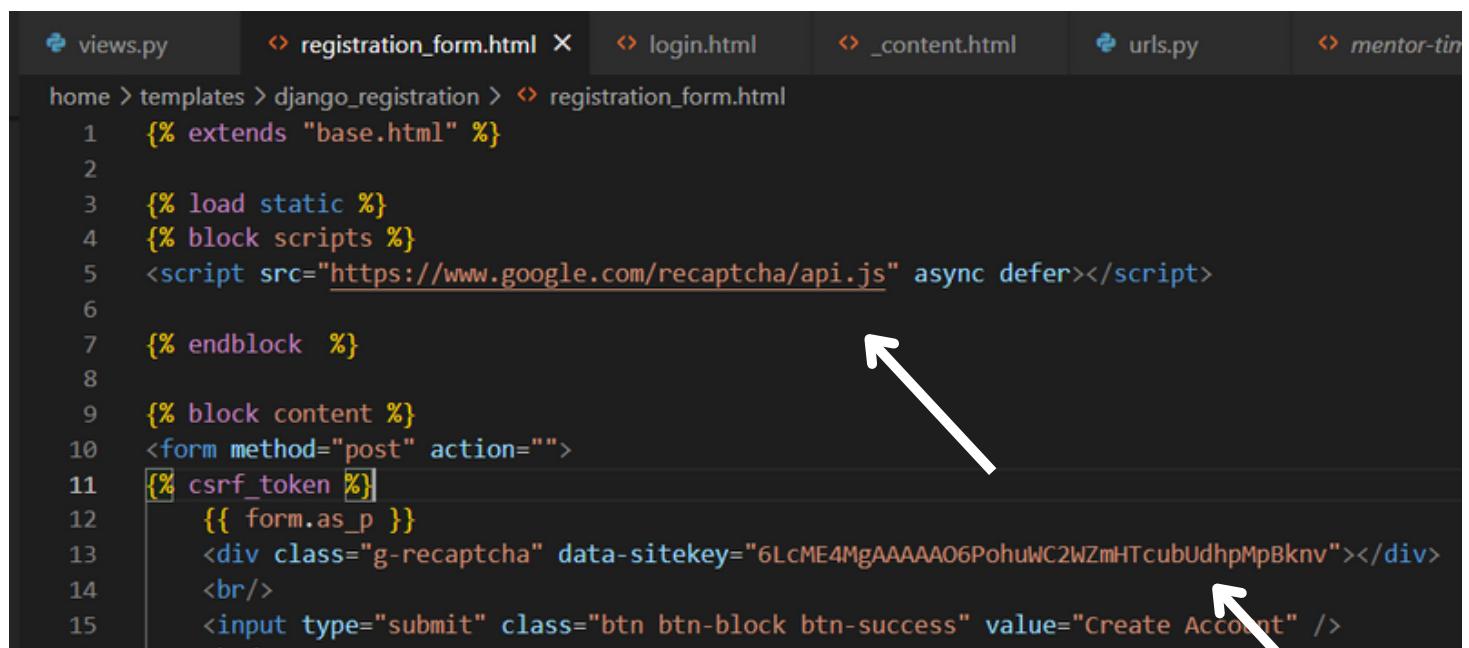
- 1) First we have to create account at google "[reCAPTCHA | Google Developers](#)" .
- 2) Then we have to create a captcha and copy 'site key' and 'secret key' for later use.
- 3) Then copy the code and javascript link provided by google on your destination page.



```
# https://docs.djangoproject.com/en/1.11/topics/auth/default/#django.contrib.auth.views.LoginView
{% extends "base.html" %}
{% load static %}
{% block scripts %}
<script src="https://www.google.com/recaptcha/api.js" async defer></script>
```



```
33
34
35
36 <div class="g-recaptcha" data-sitekey="6LcME4MgAAAAA06PohuWC2WZmHTcubUdhMpBknv"></div>
37 <br/>
38
39
40 <p><input class="btn btn-success" value="Login" /></p>
41 </form>
```



```
{% extends "base.html" %}
{% load static %}
{% block scripts %}
<script src="https://www.google.com/recaptcha/api.js" async defer></script>
```

The code block continues with:

```
{% endblock %}
{% block content %}
<form method="post" action="">
    {% csrf_token %}
    {{ form.as_p }}
    <div class="g-recaptcha" data-sitekey="6LcME4MgAAAAA06PohuWC2WZmHTcubUdhMpBknv"></div>
    <br/>
    <input type="submit" class="btn btn-block btn-success" value="Create Account" />
```

LOGIN PAGE AFTER ADDING CAPTCHA:

① 127.0.0.1:8000/register/?next=/

OUTREACHY Log In

Required. 150 characters or fewer. Letters, digits and @./+/-/_ only.

Email address:

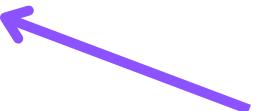
Password:

Password confirmation:

Enter the same password as before, for verification.

I'm not a robot  reCAPTCHA
Privacy - Terms

Create Account



REGISTRATION PAGE AFTER ADDING CAPTCHA:

① 127.0.0.1:8000/login/?next=/

OUTREACHY Log In

Create Account

Existing Account

Please note the login form accepts only usernames, not email addresses. The acc

Username:

Password:

I'm not a robot  reCAPTCHA
Privacy - Terms

Login



MENTOR SIGN-UP LINK IS BROKEN ,IT GENERATES "PAGE NOT FOUND" ERROR

The screenshot shows the Outreachy website's "Important dates" page. It lists two sets of internships: "May 2022 internships" and "December 2022 internships". The December 2022 section includes a link to "Sign up for our mailing list" which is highlighted with a purple arrow pointing to it.

Important dates

May 2022 internships:

- Intern applications are closed
- Internship project list will be finalized on March 25, 2022
- Mentors can sign up through March 23, 2022 at 4pm UTC
- Internships run May 30 to August 26, 2022

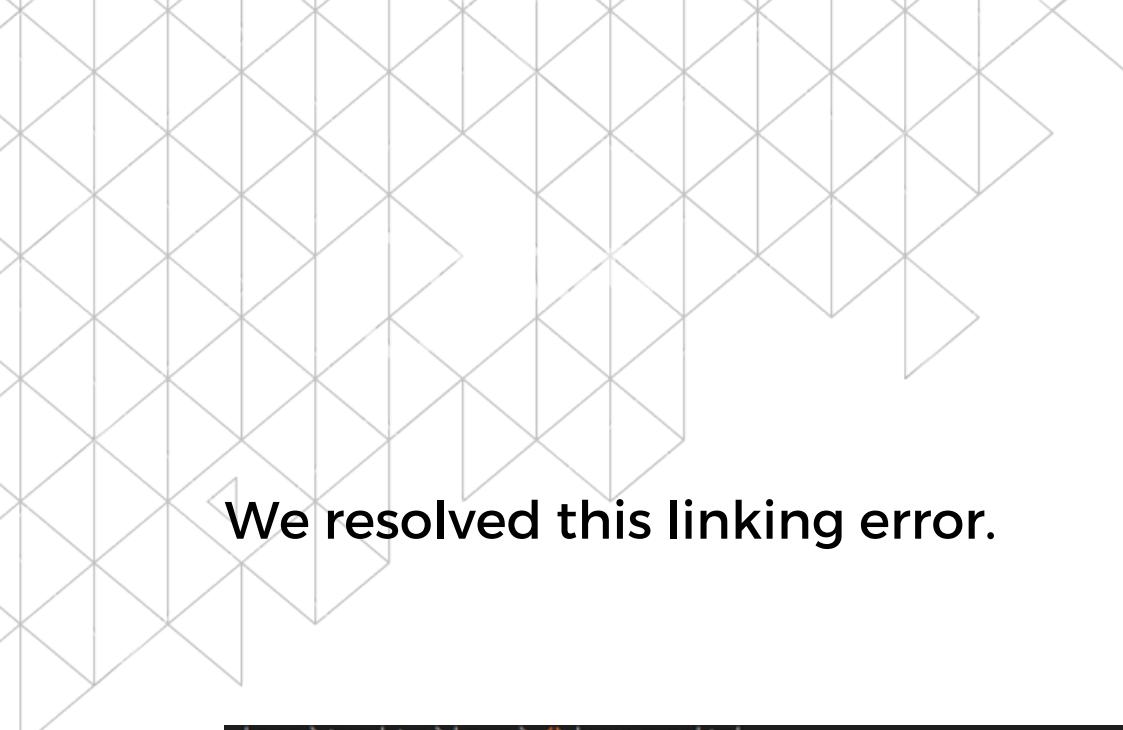
December 2022 internships:

- Intern applications are accepted from early August to late August 2022
- Internship project list will be finalized in early October 2022
- Mentors can sign up starting in late July 2022
- Internships run early December 2022 to early March 2023
- Sign up for our mailing list to be notified of future internships.

we can see the error here

The screenshot shows a "Page not found" error page from the Outreachy website. The page title is "Page not found" and the main message is "Sorry, this page could not be found." The footer contains copyright information and a note about Creative Commons licensing.

Copyright © 2022 Outreachy
Free to share and remix: Creative Commons CC-BY, except for the individual organization logos, which are property of their respective owners, and any pictures with additional creative commons attributions.

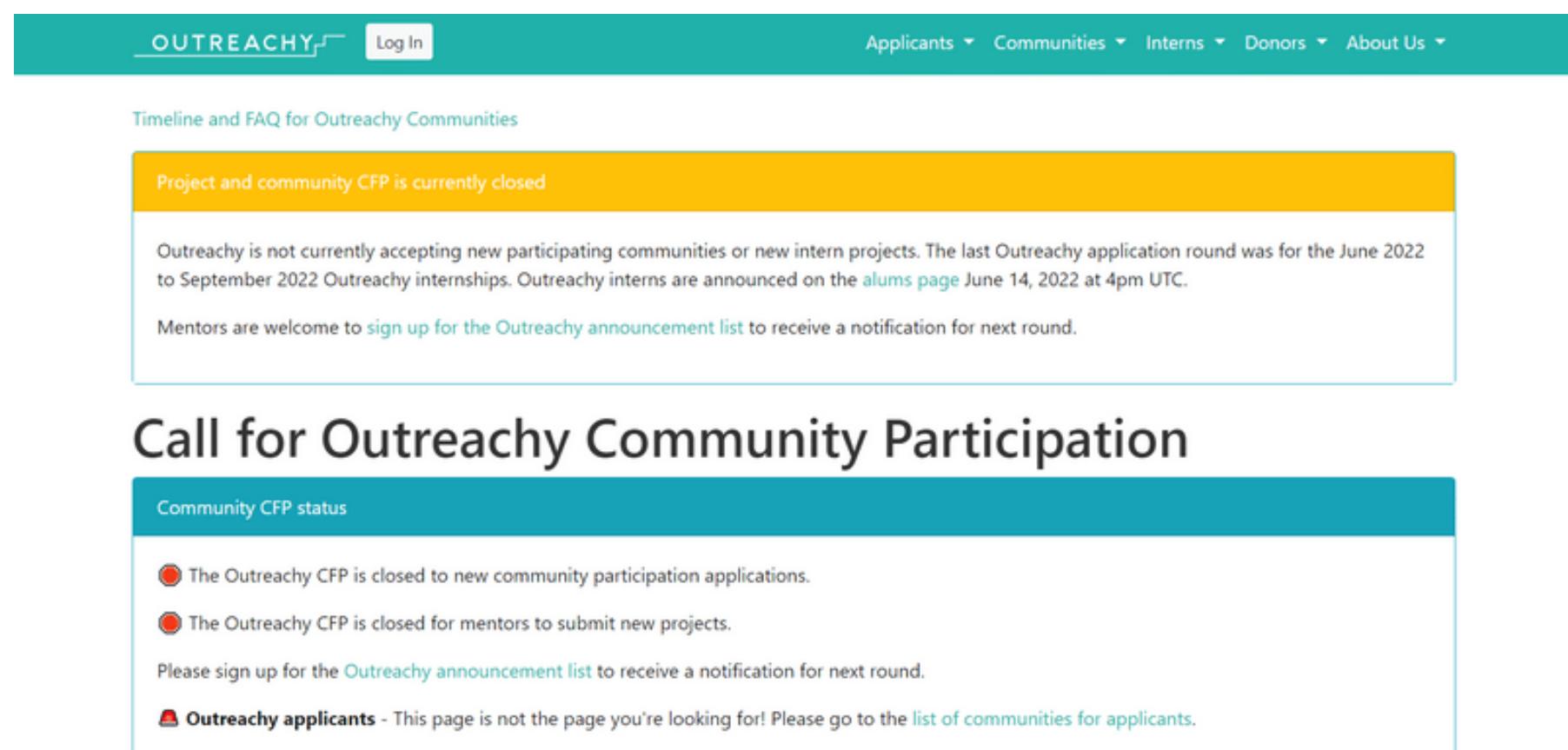


We resolved this linking error.

```
home > templates > home > home_page.html
1
2
3
4
5
6
7
8
9 , 2022</p><p data-block-key="eqof0">💡 Mentors can <a href="/communities/cfp">sign up</a> through March 23, 2022 at 4pm UTC</p>
10
11
12
13
14
15
```



Now the link directs us to the correct page.



The screenshot shows the Outreachy website with a teal header bar. The header includes the logo "OUTREACHY" with a small square icon, a "Log In" button, and a navigation menu with dropdowns for "Applicants", "Communities", "Interns", "Donors", and "About Us". Below the header, a teal banner displays the text "Timeline and FAQ for Outreachy Communities". A yellow callout box contains the message "Project and community CFP is currently closed". The main content area has a light blue background and contains text about the current status of the CFP and instructions for mentors. At the bottom, there is a section titled "Call for Outreachy Community Participation" with a teal header and a list of status items, followed by a note for applicants.

OUTREACHY Log In

Applicants ▾ Communities ▾ Interns ▾ Donors ▾ About Us ▾

Timeline and FAQ for Outreachy Communities

Project and community CFP is currently closed

Outreachy is not currently accepting new participating communities or new intern projects. The last Outreachy application round was for the June 2022 to September 2022 Outreachy internships. Outreachy interns are announced on the [alums page](#) June 14, 2022 at 4pm UTC.

Mentors are welcome to [sign up for the Outreachy announcement list](#) to receive a notification for next round.

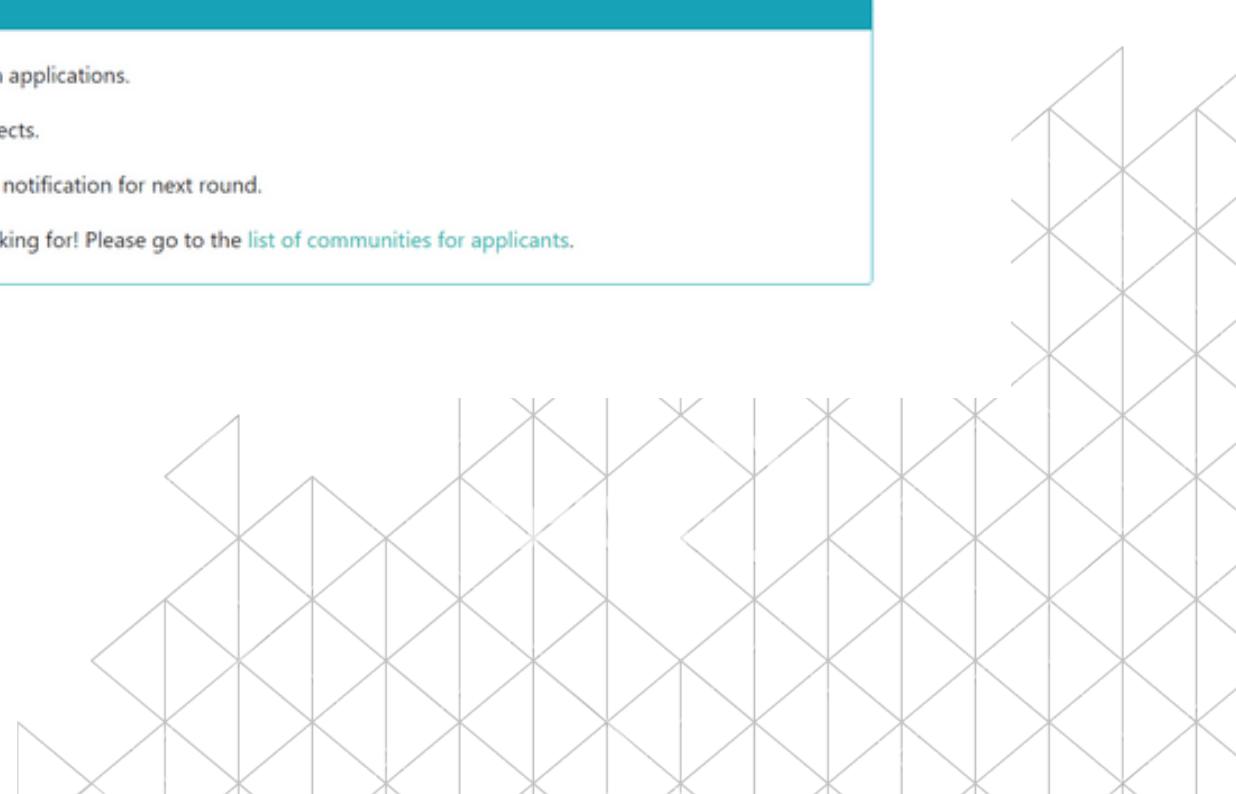
Call for Outreachy Community Participation

Community CFP status

- 🔴 The Outreachy CFP is closed to new community participation applications.
- 🔴 The Outreachy CFP is closed for mentors to submit new projects.

Please sign up for the [Outreachy announcement list](#) to receive a notification for next round.

⚠️ **Outreachy applicants** - This page is not the page you're looking for! Please go to the [list of communities for applicants](#).



What is Outreachy?

2. DESIGN BUGS & IMPROVEMENTS

Design is an important component of a Website.

Web design is what creates the overall look and feel when you're using a website. It's the process of planning and building the elements of your website, from structure and layout to images, colors, fonts and graphics.

Web design has numerous components that work together to create the finished experience of a website, including graphic design, user experience design, interface design, search engine optimization (SEO) and content creation.

These elements determine how a website looks, feels and works on various devices.

And from the Design perspective we found these bugs and improvements for the website :

- On the "Contact Us" page there are Hyper Links for outside websites which opens on same tab Instead of a new one. For an Ideal website the outside links should open on the new tab so that the content of main website isn't compromised.**

Here is a Screenshot representing the same:

The screenshot shows a web browser window with the URL <http://127.0.0.1:8000/contact/contact-us/>. The page has a teal header with the word "OUTREACHY" and a "Log In" button. Below the header, there are four profile cards for Outreachy staff members:

- Anna e só**: A woman with short dark hair, wearing a colorful patterned top. Text below her photo: "Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese."
- Karen Sandler**: A woman with long brown hair, smiling. Text below her photo: "Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of [Software Freedom Conservancy](#). Karen uses she/her pronouns."
- Omotola Omotayo**: A woman with glasses and a colorful patterned top. Text below her photo: "Omotola Omotayo is the Outreachy community manager. Omotayo is also Community Manager Lead at [She Code Africa](#). Omotayo uses she/her pronouns."
- Sage Sharp**: A man with glasses and a floral shirt. Text below his photo: "Sage Sharp is the Outreachy cultural change agent. Sage is also the Senior Director of Diversity and Inclusion at [Software Freedom Conservancy](#). Sage is CEO of [Otter Tech](#). Sage uses they/them pronouns."

A purple arrow points from the text "Omotola Omotayo is the Outreachy community manager. Omotayo is also Community Manager Lead at [She Code Africa](#). Omotayo uses she/her pronouns." to the "She Code Africa" link in the text.

Outreachy Leadership Committee

<https://shecodeafrica.org>

After clicking on "She Code Africa" website, the link opens in same tab.

The screenshot shows a web browser window with the URL <https://shecodeafrica.org>. The page has a dark grey header with the "SHE CODE AFRICA" logo and a navigation menu: Home, About, Donate/Partner, Chapters, Programs, and Job Opportunities. The "Home" menu item is highlighted with a pink underline.

The main content area features the "She Code Africa" logo and the tagline "...celebrating and empowering young girls and women in Tech across Africa". Below this is a "JOIN US" button. A central call-to-action box contains a circular icon of a hand putting a coin into a donation box, with the text "DONATE" and "Sponsor a Tech Lady". Below the icon, a message says: "Did you know by donating as little as \$5.3(~3,000 NGN), you'd be helping us mentor and provide resources to 1 female in tech in 1 day." At the bottom of the box is a "MAKE DONATION" button.

At the very bottom of the page, a footer note reads: "We are a non-profit organisation focused on celebrating and empowering young girls and women in tech across Africa." and "Privacy • Terms".

To Open a link in new tab we have to set "target" attribute to "_blank" in the <a> (anchor tag) in the respective Html file of the webpage.

To fix the bug we have to go to the "contact.html" file and perform the debug operation.

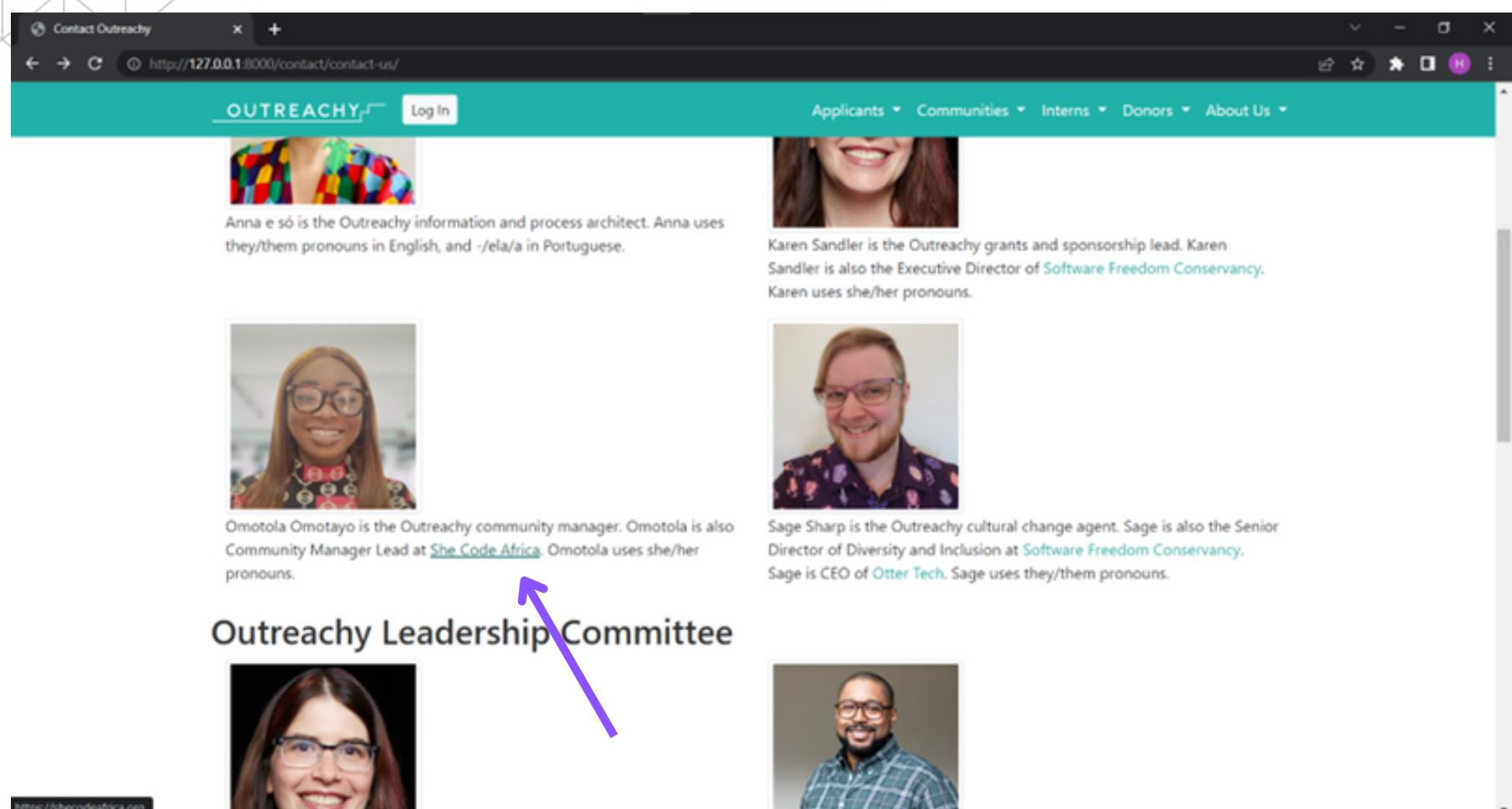
Before Debugging:

```
contacts > templates > contact_form > contact.html
20 <div class="container">
21   <div class="row">
22     <div class="col-sm">
23       
24       <p>Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.</p>
25     </div>
26     <div class="col-sm">
27       
28       <p>Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of <a href="https://www.sfconservancy.org">Software Freedom Conservancy</a>.
29     </div>
30   </div>
31   <div class="row">
32     <div class="col-sm">
33       
34       <p>Omotola Omotayo is the Outreachy community manager. Omotola is also Community Manager Lead at <a href="https://shecodeafrica.org/">She Code Africa</a>. Omotola uses she/her/h
35     </div>
36     <div class="col-sm">
37       
38       <p>Sage Sharp is the Outreachy cultural change agent. Sage is also the Senior Director of Diversity and Inclusion at <a href="https://www.sfconservancy.org">Software Freedom Conservancy</a>.
39     </div>
40   </div>
41 </div>
42 </div>
```

Adding
target="_blank"
in each anchor tag of the webpage.

```
20 <div class="container">
21   <div class="row">
22     <div class="col-sm">
23       
24       <p>Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.</p>
25     </div>
26     <div class="col-sm">
27       
28       <p>Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of <a href="https://www.sfconservancy.org" target="_blank">Software Freedom Conservancy</a>.
29     </div>
30   </div>
31   <div class="row">
32     <div class="col-sm">
33       
34       <p>Omotola Omotayo is the Outreachy community manager. Omotola is also Community Manager Lead at <a href="https://shecodeafrica.org/" target="_blank">She Code Africa</a>. Omotola uses she/her/h
35     </div>
36     <div class="col-sm">
37       
38       <p>Sage Sharp is the Outreachy cultural change agent. Sage is also the Senior Director of Diversity and Inclusion at <a href="https://www.sfconservancy.org" target="_blank">Software Freedom Conservancy</a>.
39     </div>
40   </div>
41 </div>
42 </div>
```

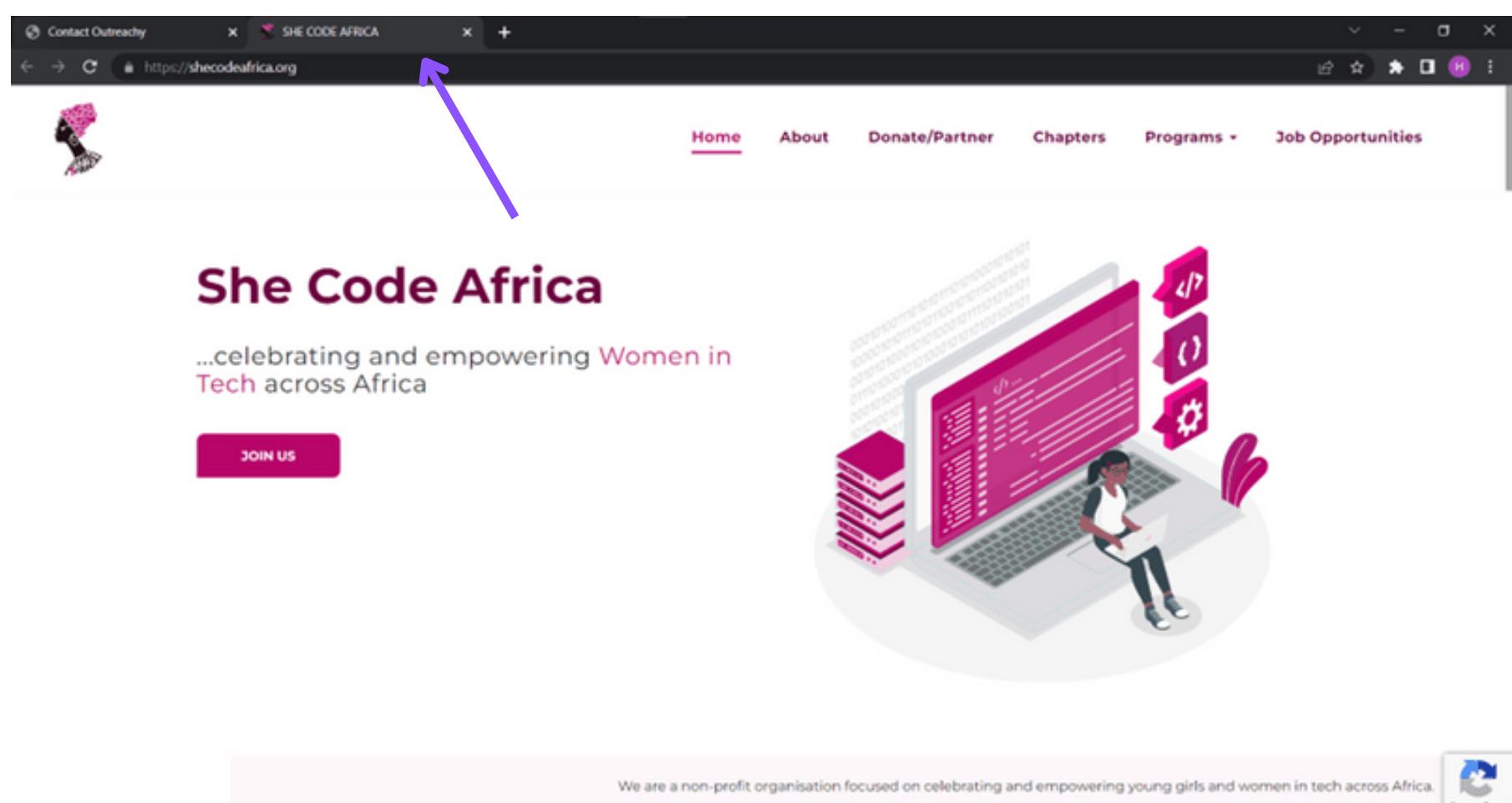
After Debugging:



A screenshot of a web browser displaying the Outreachy website at <http://127.0.0.1:8000/contact/contact-us/>. The page features a teal header with the Outreachy logo and a 'Log In' button. Below the header, there are four profile cards for team members:

- Anna e só: Information and process architect. Pronouns: they/them in English, and -/ela/a in Portuguese.
- Karen Sandler: Grants and sponsorship lead. Executive Director of Software Freedom Conservancy. Pronouns: she/her.
- Omotola Omotayo: Community manager. Community Manager Lead at She Code Africa. Pronouns: she/her.
- Sage Sharp: Cultural change agent. Senior Director of Diversity and Inclusion at Software Freedom Conservancy. CEO of Otter Tech. Pronouns: they/them.

The card for Omotola Omotayo includes a link to <https://shecodeafrica.org>, which is highlighted with a purple arrow pointing to the 'She Code Africa' tab in the browser below.



A screenshot of a web browser displaying the She Code Africa website at <https://shecodeafrica.org>. The page has a dark header with the She Code Africa logo and navigation links for Home, About, Donate/Partner, Chapters, Programs, and Job Opportunities. The main content area features the text "...celebrating and empowering Women in Tech across Africa" and a 'JOIN US' button. To the right is a large graphic of a person working on a laptop with binary code and various tech icons. A purple arrow points from the 'JOIN US' button on the Outreachy page above to the She Code Africa tab in the browser below.

The Link now opens in a new tab.

- On the "Contact Us" page the Names of the Organizers & the Leadership Community aren't properly highlighted, there are just images and content down below. From User's perspective the names aren't visible at a single glance and thus there is a need to highlight them to make it user friendly.

Here is a Screenshot representing the thing we're talking about:

The screenshot shows the 'Outreachy Organizers' page. It features four team members with their portraits and brief descriptions:

- Anna e só** is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.
- Karen Sandler** is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of Software Freedom Conservancy. Karen uses she/her pronouns.
- Omotola Omotayo** is the Outreachy community manager. Omotola is also Community Manager Lead at She Code Africa. Omotola uses she/her pronouns.
- Sage Sharp** is the Outreachy cultural change agent. Sage is also the Senior Director of Diversity and Inclusion at Software Freedom Conservancy. Sage is CEO of Other Task. Sage uses they/them pronouns.

Names should either be bold or should be displayed differently as heading.

We would use the `<h4>` tag for all names in the same file 'Contact.html'

```

contacts > templates > contact_form > contact.html
12   <h2>Outreachy Applicant Help</h2>
13
14   <p>Outreachy volunteers are happy to answer questions from Outreachy applicants! If you want to apply to Outreachy or you have a question about applying to Outreachy, please <a href="{% url 'contact' %}>contact Outreachy</a> for questions relating to sponsorship, community participation, volunteering or mentoring for Outreachy.</p>
15
16   <h2>Outreachy Organizers</h2>
17
18   <p>Please <a href="{% url 'contact-organizers' %}>contact Outreachy organizers</a> for questions relating to sponsorship, community participation, volunteering or mentoring for Outreachy.</p>
19
20   <div class="container">
21     <div class="row">
22       <div class="col-sm">
23         
24         <h4>Anna e só</h4>
25         <p>Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.</p>
26
27       <div class="col-sm">
28         
29         <h4>Karen Sandler</h4>
30         <p>Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of <a href="https://www.sfc.org/" target="_blank">Software Freedom Conservancy</a>.</p>
31
32     </div>
33     <div class="row">
34       <div class="col-sm">
35         
36         <h4>Omotola Omotayo</h4>
37         <p>Omotola Omotayo is the Outreachy community manager. Omotola is also Community Manager Lead at <a href="https://shecodeafrica.org/" target="_blank">She Code Africa</a>. Omotola uses she/her pronouns.</p>
38     </div>

```

After Debugging:

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Outreachy Organizers

Please contact Outreachy organizers for questions relating to sponsorship, community participation, volunteering or mentoring for Outreachy, or to give a Code of Conduct incident report. Coordinators are also available on Twitter.



Anna e só
Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.



Karen Sandler
Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of Software Freedom Conservancy. Karen uses she/her pronouns.



Omotola Omotayo



Sage Sharp

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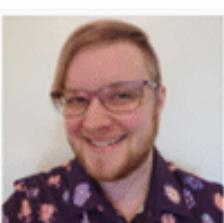
Outreachy Leadership Committee



Karen Sandler
Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of Software Freedom Conservancy. Karen uses she/her pronouns.



Tony Sebro
Tony Sebro is General Counsel for Change.org. Tony uses he/him pronouns.
Photo of Tony is CC BY-SA 4.0 by Myleen Hollero - Myleen Hollero Photography.



Sage Sharp
Sage Sharp is the Outreachy cultural change agent. Sage is also the Senior

The names of Organizers & Leadership Committee are now visible at one glance from the user's perspective hence making it way easier to differentiate.

3. BONUS MODIFICATIONS

As we were exploring more for our project we found that the owner had one more additional requirement. So we added that too as a bonus!

The requirement of the owner was to add content in the “Internship Tips” Section. It's shown below.

sagesharp commented on 10 May 2021

Add the following to the [community docs](#) in a new section "Internship Tips". Add a subsection "Internet in developing countries".

Add the following text:

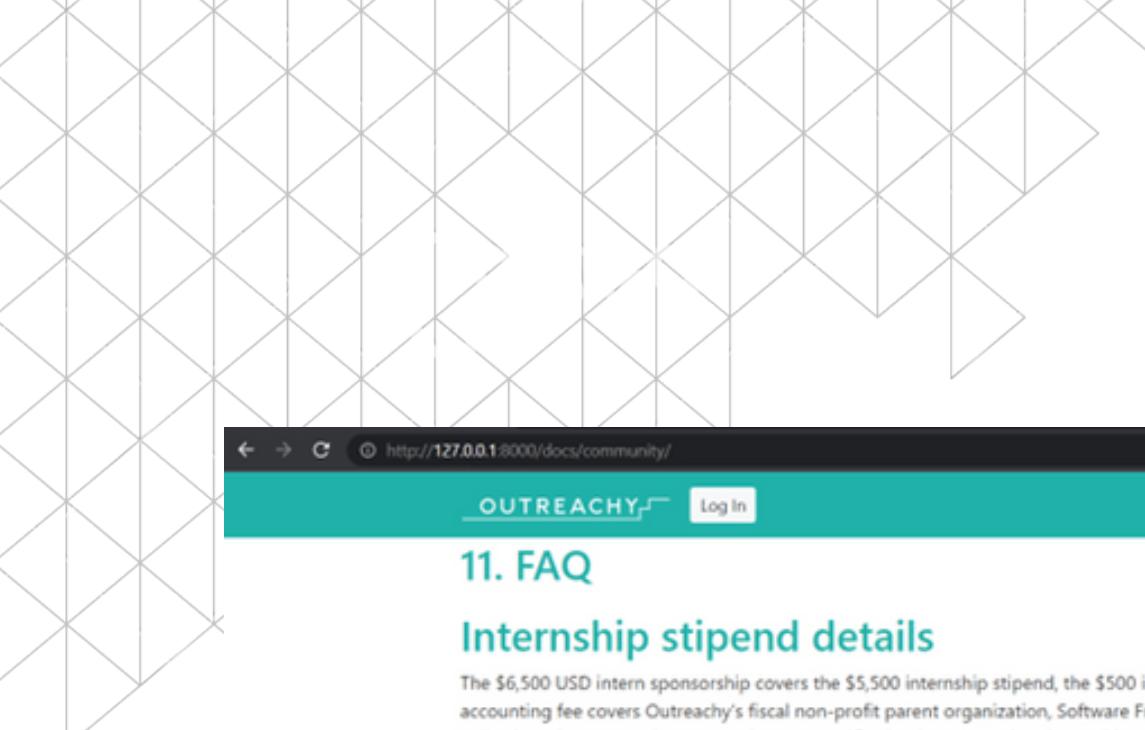
Mentors need to be prepared to work with interns who have internet issues. Outreachy interns in India, countries in Africa, and other developing nations often have slower internet or pay for the amount of data they use.

Mentors have been able to work around internet issues in the past. Our tips are:

- Assume the intern is using mobile data for their internet
- Assume the internet plan requires the intern to pay for the amount of data they use -- most interns don't have an unlimited internet data plan
- Ask the intern whether they prefer video calls, phone calls, or text chat for your weekly meetings
- Avoid asking the intern to download large amounts of data or install tools multiple times
- Be prepared for internet outages - help the intern prepare to work offline for a few days if their internet goes down
- Be flexible - if internet problems cause issues, you may need to work with your intern to modify their project plan
- It's not necessary to ask for an internship extension if the intern misses a few days of work
- If an intern is offline for a week or more, you should ask for an internship extension

sagesharp added [help wanted](#) [HTML](#) [newcomers-welcome](#) [documentation](#) labels on 10 May 2021

Owner needed to add content for "Internship tips" section in the community docs' file -> 'community_guide.html'



<http://127.0.0.1:8000/docs/community/>

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11. FAQ

Internship stipend details

The \$6,500 USD intern sponsorship covers the \$5,500 internship stipend, the \$500 intern conference travel stipend, and a \$500 accounting fee. The accounting fee covers Outreachy's fiscal non-profit parent organization, Software Freedom Conservancy, handle sponsor invoicing, intern payments, W-9 collection, visa request letters, employment verification letters, student internship credit letters, and tax questions.

[Table of contents](#)

Internship Tips

Below are some internship tips.

Internet in developing countries

[Table of contents](#)

Copyright © 2022 Outreachy

A purple arrow points from the "11. FAQ" section header down to the "Internet in developing countries" section header.

Moreover there was also a need to add content in the section "1.6. How is Outreachy different from other internship programs?" on the same page.



<http://127.0.0.1:8000/docs/community/>

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to be in the Northern Hemisphere, regardless of where their university is located.

- If you are a student of a university in the **Southern Hemisphere**, you will only be eligible for the December to March round.
- Otherwise, if your university is near the equator, you may apply to any round. We will review university term schedules on a case-by-case basis.
- If you are completing your last term for your degree, you may be eligible for either round, regardless of what hemisphere you are in. To be eligible for the Nov 2022 internships, the exams for your **last** school term must end before Dec. 29, 2022. If the school academic calendar continues past that date, graduating students are not eligible.
- When determining student eligibility, Outreachy looks at the school's academic calendar dates. We do not consider the individual student's course load. We do not consider special arrangements students have made with their university. Students who plan on taking a school term off to pursue an internship are not eligible for Outreachy. We cannot accept letters from universities about pausing classes or joining classes at a later date.

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1.6. How is Outreachy different from other internship programs?

[Table of contents](#)

2. Community participation rules

New communities must meet these rules to be eligible to participate in Outreachy. The Outreachy organizers and the Outreachy Project Leadership Committee (PLC) will review the community's application to ensure they meet our participation rules.

We encourage communities with more than 5 core contributors to participate. However, this is not a strict requirement.

Each section below will list guidelines for the types of communities that can participate in Outreachy.

[Table of contents](#)

2.1 Community types

we got the content provided by another owner of the site on github.
So we added content using unordered list .

An unordered list typically is a bulleted list of items. HTML 3.0 gives you the ability to customise the bullets, to do without bullets and to wrap list items horizontally or vertically for multicolumn lists.

```
① README.md ② base.html ③ round_page_with_communities.html ④ community_guide.html M ⑤ home_page.html ⑥ alum_survey.txt
home > templates > home > docs > community_guide.html
141
142 <p><b>Eligibility Rules.</b> These eligibility rules apply to the {{ current_round.official_name }} round. Dates may change for future rounds.</p>
143
144 {# include 'home/snippet/eligibility_rules.html' #}
145
146 <p><a href="#toc"><u>† table of contents</u></a></p>
147 <hr>
148
149 <h3 id='program-differences'><a href="#program-differences">1.6. How is Outreachy different from other internship programs?</a></h3>
150
151 <p>Below are few points that makes Outreachy different from other paid and remote open-source internships:</p>
152 <ul>
153   - <li>It is conducted twice a year that is from May to August and December to March.</li>
154   - <li>Outreachy expressly invites applicants who are women (both cis and trans), trans men, non-binary people, and genderqueer people to apply.</li>
155   - <li>Outreachy is organized by the Software Freedom Conservancy for the people who are underrepresented in this specific field.</li>
156   - <li>Outreachy interns are paid $5,500 USD total for three months of work. The stipend is paid in three parts: $2,000 initial stipend, $2,000 mid-point stipend.</li>
157   - <li>The Outreachy Internship program is not only for programmers or developers, there are lots of opportunities in the Outreachy program for non-technical people too.</li>
158   - <li>Candidates who were GSoC interns earlier are not eligible for Outreachy even if they have not completed their GSoC program successfully.</li>
159   - <li>Candidates who have part-time jobs or contract-based jobs are eligible for the program but candidates having full-time jobs are not eligible.</li>
160   - <li>Co-mentoring is encouraged. Co-mentors can help review intern contributions and answer questions.</li>
161   - <li>Our documentation, which can be found <a href="https://www.outreachy.org/docs/">here</a></li>
162 </ul>
163
164 <p><a href="#toc"><u>† table of contents</u></a></p>
165 <hr>
166
167 <h2 id='participation-rules'><a href="#participation-rules">2. Community participation rules</a></h2>
168
169 <p>New communities must meet these rules to be eligible to participate in Outreachy. The Outreachy organizers and the Outreachy Project Leadership Committee (PLC) will review the comm
170
171 <p>We encourage communities with more than 5 core contributors to participate. However, this is not a strict requirement.</p>
```

```
home > templates > home > docs > community_guide.html
591 <h2 id='faq'><a href="#faq">11. FAQ</a></h2>
592
593 <h2 id='stipend-details'><a href="#stipend-details">Internship stipend details</a></h2>
594
595 <p>The $6,500 USD intern sponsorship covers the $5,500 internship stipend, the $500 intern conference travel stipend, and a $500 accounting fee. The accounting fee
596
597 <p><a href="#toc"><u>† table of contents</u></a></p>
598 <hr>
599
600 <h2 id="internship-tips"><a href="#internship-tips">Internship Tips</a></h2>
601
602 <p>Below are some internship tips.</p>
603
604 <h3 id="Internet-in-developing-countries"><a href="#Internet-in-developing-countries">Internet in developing countries</a></h3>
605
606 <p>Mentors need to be prepared to work with interns who have internet issues. Outreachy interns in India,
607     countries in Africa, and other developing nations often have slower internet or pay for the amount of data they use.</p>
608
609 <p>Mentors have been able to work around internet issues in the past. Our tips are:</p>
610
611 <ul>
612   <li>Assume the intern is using mobile data for their internet.</li>
613   <li>Assume the internet plan requires the intern to pay for the amount of data they use -- most interns don't have an unlimited internet data plan.</li>
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615   <li>Avoid asking the intern to download large amounts of data or install tools multiple times.</li>
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617   <li>Be flexible - if internet problems cause issues, you may need to work with your intern to modify their project plan.</li>
618   <li>It's not necessary to ask for an internship extension if the intern misses a few days of work.</li>
619   <li>If an intern is offline for a week or more, you should ask for an internship extension.</li>
620 </ul>
621 <p><a href="#toc"><u>† table of contents</u></a></p>
622 <hr>
623 {# endblock #}
```

After Debugging:



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1.6. How is Outreachy different from other internship programs?

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Internship Tips

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Internet in developing countries

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4. THE DARK MODE

In a world where screens seem to be ever present, it's important to take steps to protect your vision, even with something as simple as using your screen's dark mode setting. There are a lot of advantages to using dark mode, like extended battery life and reduced glare and blue light exposure.

We have added Dark Mode as a huge BONUS on the website too!

We have used some CSS properties to achieve the feature.

Here is the code :

```
48 <style type="text/x-scss">
49   {% include 'sass/_config.scss' %}
50   {% include 'sass/application.scss' %}
51   body{
52     background-color : #121212;
53     color: rgba(255, 255, 255, 0.85);
54   }
55   .table{
56     color : #121212;
57     background-color: rgba(255, 255, 255, 0.9);
58     box-shadow: 0px 0px 30px #20b2aa;
59     border: 3px solid #20b2aa;
60     margin-top: 5px;
61     margin-bottom: 5px;
62   }
63   tr{
64     border: 2px solid #20b2aa;
65   }
66   .card-header, .card-footer:last-child{
67     color: #121212;
68   }
69   .card-body {
70     color : #121212;
71     background-color: rgba(255, 255, 255, 0.87);
72   }
```

```
73      form{  
74          border-radius: 25px;  
75          border: 1px solid #20b2aa;  
76          box-shadow: 0px 0px 40px #20b2aa ;  
77          padding: 40px;  
78          margin-top: 30px;  
79          margin-bottom: 30px;  
80      }  
81      form hr, field p{  
82          color: rgba(255, 255, 255, 0.85);  
83      }  
84      #NewStatus{  
85          border-radius: 5px;  
86          border: 3px solid #20b2aa;  
87          box-shadow: 0px 0px 40px #20b2aa ;  
88      }
```

```
89      #Newborder{  
90          border-radius: 25px;  
91          border: 2px solid #20b2aa;  
92          padding: 55px;  
93          box-shadow: 0px 0px 50px #20b2aa inset;  
94      }  
95      #Imgborder{  
96          border-radius: 25px;  
97          border: 1px solid #20b2aa;  
98          box-shadow: 0px 0px 40px #20b2aa;  
99          margin-top: 5px;  
100         margin-bottom: 19px;  
101     }  
102     </style>  
103     {% endcompress %}
```

Some Snapshots After Debugging:

The screenshot shows the Outreachy login page with a dark background. At the top, there's a teal header bar with the "OUTREACHY" logo and a "Log In" button. Below the header, the main title "Existing Account" is displayed in white. A note below it says, "Please note the login form accepts only usernames, not email addresses. The account verification email will contain your username." The login form itself has a black background and contains fields for "Username" and "Password", both with placeholder text. A green "Login" button is at the bottom of the form. A small link "Forgot your password?" is located just below the "Login" button.

The screenshot shows the Outreachy Internship Guide page with a dark background. At the top, there's a teal header bar with the "OUTREACHY" logo and a "Log In" button. To the left of the header, a link "← back to Outreachy documentation" is visible. The main title "Outreachy Internship Guide" is centered above a large, rounded rectangular content area. Inside this area, the title "Table of Contents" is at the top, followed by a list of numbered sections: 1. Internship Time Commitment, 2. Mentor Expectations, 3. Career Development, 4. Payments, 5. Blogging (with sub-points for Week 1 and Week 5), and 6. Blogging FAQ. Below this, section 7. Chats with interns, mentors, and alums is listed with sub-points for Week 1 and Week 5.

Code of Conduct incident report. Coordinators are also available on Twitter.

**Anna e só**

Anna e só is the Outreachy information and process architect. Anna uses they/them pronouns in English, and -/ela/a in Portuguese.

**Karen Sandler**

Karen Sandler is the Outreachy grants and sponsorship lead. Karen Sandler is also the Executive Director of [Software Freedom Conservancy](#). Karen uses she/her pronouns.

