



# Research Match Sprint 6

Deadline Tech



# Feedback

- Refine the UI/Ux.
- UI for the edit page needs to be modified.
- Additions to the homepage, posting news etc.
- Send data to front end and allow it to be displayed.
- Increase font sizes.
- Solving the problem- labs get too many applicants.

# Minor fixes to Sign up/ Log in Page

```
#checks to make sure password is 8 characters long, not entirely numerical/alphabetical, or too common
if pass1 is not None:
    try:
        validate_password(pass1)
    except ValidationError as e:
        for error in e.error_list:
            messages.error(request, error)
        if e.error_list is not None:
            return redirect('signup')
```

```
else:
    messages.error(request, "User account is not confirmed. Please check your email for confirmation link.")
    return redirect('studentlogin')
```

```
else:
    if User.objects.filter(email=email).exists():
        messages.error(request, "The Password you entered is incorrect. Please try again or reset password.")
        return redirect('studentlogin')
    else:
        messages.error(request, "The email you entered does not match our records. Please double-check and try again.")
        return redirect('studentlogin')
```



# Research Match Demo - Student Login & Lab Login



# Groups - Students and Labs

```
if 'stdbtn' in request.POST:
    group = Group.objects.get(name='student')
    myuser.groups.add(group)

if 'labbtn' in request.POST:
    group = Group.objects.get(name='lab')
    myuser.groups.add(group)
```

- After debating the models of labs and students, we decided that the models will look similar, so there is no need to create separate profile models. However, we will differentiate users with their group assignment.

Groups:

Available groups ?

admin  
lab

Choose all ?

Chosen groups ?

student

Remove all

The groups this user belongs to. A user will get all permissions granted to each of their groups. Hold down "Control", or "Command" on a Mac, to select more than one.

# Decorators.py

```
from django.http import Http404, HttpResponse
from django.shortcuts import redirect
```

```
def unauthenticated_user(view_func):
    def wrapper_func(request, *args, **kwargs):
        if request.user.is_authenticated:
            return redirect('home')
        return view_func(request, *args, **kwargs)

    return wrapper_func
```

```
def allowed_users(allowed_roles=[]):
    def decorator(view_func):
        def wrapper_func(request, *args, **kwargs):
            group = None
            if request.user.groups.exists():
                group = request.user.groups.all()[0].name
                if group in allowed_roles:
                    return view_func(request, *args, **kwargs)
                else:
                    raise Http404("Page does not exist. You do not have access to this page.")
            return view_func(request, *args, **kwargs)
        return wrapper_func
    return decorator
```

```
@allowed_users(allowed_roles=['student'])
def studentlogin(request):

    @allowed_users(allowed_roles=['lab'])
    def lablogin(request):
```

# Navigation Bar Changes

```
{% block content%}  
{% include 'navbar.html' %}  
{% endblock content%}
```

```
{% if request.user.groups.all.0.name == 'student' %}
```

```

> navbar.html <>
research_match > profilepage > templates > <> navbar.html
1   {% load static %}
2
3   {% if request.user.groups.all.0.name == 'student' %}
4
5   {% comment %} Student navigation board {% endcomment %}
6   <nav class="navbar">
7     <ul class="navbar-nav">
8       <!-- Logo -->
9       <li class="logo" style="margin-left: auto">
10         <a href="/" class="nav-link">
11           <span class="link-text">Research Match</span>
12           <svg
13             aria-hidden="true"
14             focusable="false"
15             data-prefix="fad"
16             data-icon="angle-double-right"
17             role="img"
18             xmlns="http://www.w3.org/2000/svg"
19             height="1em"
20             viewBox="0 0 640 512"
21           >
22             <!-- Font Awesome Free 6.4.2 by @fontawesome - https://fontawesome.com License - https://fontawesome.com/license (Commercial License) Copyright 2023 Fonticons, Inc. -->
23             <path
24               fill="currentColor"
25               d="M175 389.4c-9.8 16-15 34.3-15 53.1c-10 3.5-20.8 5.5-32 5.5c-53 0-96-43-96-96V64C14.3 64 0 49.7 0 32S14.3 0 32 0H96h64 64c17.7 0 32 14.3 32 32s-14.3 32-32 32Z"
26               class="transition-primary"
27             />
28           </svg>
29         </a>

```

# Password Reset

## Research Match

### Password Reset

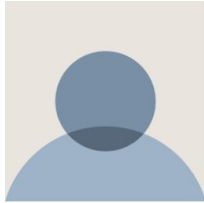
Enter your email address below, and we'll email instructions for setting a new one.

Email:

Send Email



# Profile Page



**Adrian Valencia**

biology major at emory

GPA: 0

## Skills

Python Java Django

## Completed Courses

CS 170 CS 171 CS 224 CS 253  
CS 370

# Profile Page Code

```
models.py

class StudentProfile(models.Model):
    def skill_list(self):
        return self.skill.split(',')
    def course_list(self):
        return
self.course.split(',')
```

```
StudentMain.html

<h2 style="margin-top: 0;">Skills</h2>
<div class="tagscluster">
    <!-- Split items in skill -->
    {% for i in user.studentprofile.skill_list %}
        <div class="child"> {{ i.strip }} </div>
    {% endfor %}
</div>
```

# Documents and Images


Added the ability to upload files.





Added the ability to upload a profile picture and have it display on the student profile page.

```
class StudentProfile(models.Model):
    user = models.OneToOneField(User, null=True, on_delete=models.CASCADE)
    # email = models.EmailField(blank=True, unique=True)
    # email = User.email
    # firstname = models.CharField(max_length=70)
    # lastname = models.CharField(max_length=70)


    profile_pic = models.ImageField(default='default.png', upload_to='profile_pics')
    date_created = models.DateTimeField(auto_now_add=True, null=True)
    gpa = models.FloatField(default=0)
    documents = models.FileField(upload_to='documents')
    skill = models.CharField(max_length=255)
    course=models.CharField(max_length=255)
    biography=models.CharField(max_length=500)
    labname=models.CharField(max_length=255)
```

# Student Profile Page with images

**Research Match** 

Profile    

## Welcome Back, Arushi!



**Skills**

Java

**Completed Courses**

CS 370

**Arushi Dhillon**

biology major at emory

GPA: 0.0

**About Me**

I am a creator of this page!

# Form to input information

Update Your Profile

First name:

Last name:

Profile pic: Currently:

[profile\\_pics/69544005426\\_CF472075-4C3C-443C-B0AE-19615F64F1DD.jpeg](#)

Change:

Choose File

No file chosen

• This field is required.

Gpa:

• This field is required.

Skill:

• This field is required.

Course:

• This field is required.

Biography:

Documents: Currently:

[documents/Arushi\\_Dhillon\\_Transcript.pdf](#)

Change:

Choose File

No file chosen

Update

Formatted it differently


Added the ability to upload a profile picture and a file.





Added the ability to add gpa

# Lab Profile Page with images (currently the lab is also me so it looks the same!)


Displays required skills and courses.

No gpa is displayed.

Research Match

Profile

## Welcome Back, Arushi!



**Arushi Dhillon**

**Required Skills**  

Java

**Required Courses**  

CS 370

**About Our Lab**

I am a creator of this page!

# Login Page Nav Bar is edited



Within each of the pages this navigation bar links to, there are some minor changes in wording.

# Form to input information for a lab

No ability to edit the  
gpa.

Update Your Profile

First name:

Last name:

Profile pic: Currently: [profile\\_pics/69544005426\\_CF472075-4C3C-443C-B0AE-19615F64F1DD.jpeg](#)

Change:  No file chosen

Skill:

Course:

Biography:

Documents: Currently: [documents/Arushi\\_Dhillon\\_Transcript.pdf](#)

Change:  No file chosen



# Inbox

New Message

**New Message**

To:

Select a conversation or create a new message



urls.py

```
urlpatterns = [  
    path("admin/", admin.site.urls),  
    path('', include("profilepage.urls")),  
    path('', include("inbox.urls")),  
]
```



settings.py

```
INSTALLED_APPS = [  
    ...  
    'inbox',  
]  
TEMPLATES = [  
    {  
        ...  
        'DIRS': ["templates", "inbox/templates"],  
        ...  
    },  
]
```

# Inbox

```
users.html

{% block title %}All users{% endblock %}
{% block body %}

    <div>
        <!-- Users -->
        <div>
            {% if get_all_users %}
                {% for u in get_all_users %}
                    <h1>{{ u.username }}</h1>
                    <br>
                {% endfor %}
            {% else %}
                <h3>No users</h3>
            {% endif %}
        </div>
    </div>

{% endblock %}
```

```
views.py

def get_all_users(request):
    users = User.objects.all()
    context = {'users':users}
    return render(users, 'users.html', context)
```

# Search

```
ch_match > search > templates > list_searchtabs.html > ...  
  
{% for result in results %}  
  <div class="search-result-item">  
    <p>Name: {{ result.first_name }} {{ result.last_name }}</p>  
    <p>Background: {{ result.background }}</p>  
  </div>  
{% empty %}  
  <p>No results found.</p>  
{% endfor %}
```

```
<head>  
  <meta charset="UTF-8">  
  <title>Search</title>  
  <script src="https://unpkg.com/htmx.org"></script>  
</head>  
<body>  
  
  <div id="search-container">  
    <!-- Search form -->  
    <form method="get"  
      hx-get="/search/"  
      hx-target="#search-results"  
      hx-trigger="keyup changed delay:500ms">  
      <input type="search" name="search_user" placeholder="Search...">  
      <input type="submit" value="Search">  
    </form>  
  </div>  
  
  <!-- Results will be loaded into this div -->  
  <div id="search-results">  
    <!-- This is where the search results will be injected by HTMX after the AJAX call -->  
  </div>  
  
</body>  
</html>
```

# Bug Fixing

## AttributeError at /signup

'Manager' object has no attribute 'create\_user'

Request Method: POST

Request URL: https://research-match-c2c44e3d1621.herokuapp.com/signup

Django Version: 4.2.5

Exception Type: AttributeError

Exception Value: 'Manager' object has no attribute 'create\_user'

Exception Location: /app/profilepage/views.py, line 76, in signup

Raised during: profilepage.views.signup

Python Executable: /app/.heroku/python/bin/python

Python Version: 3.12.0

Python Path: ['/app/.heroku/python/bin',  
'/app',  
'/app/.heroku/python/lib/python312.zip',  
'/app/.heroku/python/lib/python3.12',  
'/app/.heroku/python/lib/python3.12/lib-dynload',  
'/app/.heroku/python/lib/python3.12/site-packages']

Server time: Wed, 08 Nov 2023 00:45:19 +0000

```
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [],  
        'APP_DIRS': True,  
        'OPTIONS': {  
            'context_processors': [  
                'django.template.context_processors.debug',  
                'django.template.context_processors.request',  
                'django.contrib.auth.context_processors.auth',  
                'django.contrib.messages.context_processors.messages',  
            ],  
        },  
    ],  
]
```

```
from django.db import models  
from django.contrib.auth.models import User  
#from django.contrib.auth.models import AbstractBaseUser, UserManager
```

# Bug Fixing Continued

```
(0.022) SELECT "django_migrations"."id", "django_migrations"."app", "django_migrations"."name", "django_migrations"."applied" FROM "django_migrations"; args=(); alias=default  
CommandError: Conflicting migrations detected; multiple leaf nodes in the migration graph: (0002_student_biography_student_course, 0007_alter_studentprofile_gpa in profilepage).  
To fix them run 'python manage.py makemigrations --merge'
```

 _pycache_		11/8/2023 10:12 AM	File folder	
 _init_		11/8/2023 10:47 AM	JetBrains PyCharm	0 KB
 0001_initial		11/8/2023 10:47 AM	JetBrains PyCharm	2 KB



Thank you!

