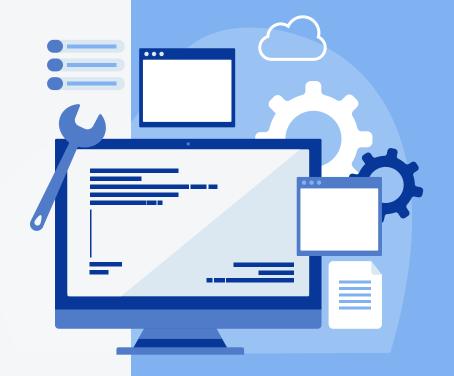
Boolient Internship Project Ol



Objectives

- Automatically create an account for new users when given a list and also denies the request for duplicate accounts
- Send a welcome email with temporary login information to new users
- Return list of successfully created users
- Integrate command into webpage

Using Django

- I used the Django framework:
 - To create users

```
user: object = User.objects.create_user(
   first_name=row['first_name'],
   last_name=row['last_name'],
   email=row['email'],
   username=row['email'],
   password=pswrd)
```

 Send HTML-formatted mail to accepted users

```
subject = 'Melcome to Boolient!'

html.message = render_to_string(lemplate_name@'email_temp.html', | connext {'first_name': row('first_name'), 'TempPass': pswrd, 'email': row('email')})

plain_message = strip_tage(intl_message)

from_email = 'From <auth@boolient.com>'
to = row('Email')

mail.send_mail(subject, plain_message, from_email, 'recipientListE [to], html_message=html_message)
```

 For their default user/admin interface

Using Pandas

- I used the Pandas framework to:
 - Read comma-separated values

```
df = pd.read_csv('data.csv')
```

Iterate through rows of the df

Ist Draft

```
if not User.objects.filter(email=row['email']).exists():

    user: object = User.objects.create_user(
        first_name=row['first_name'],
        last_name=row['last_name'],
        email=row['email'],
        username=row['email'],
        password=pswrd)
```

- Functional code that could iterate through a CSV dataframe + pick out accounts already in the database
- Could create an account for new, unique users that passed the check

Caveats:

- Could not send email of verification w/ temporary password
- Could not be accessed through the website

2nd Draft

```
_, row in df.iterrows():
if not User.objects.filter(email=row['email']).exists():
   password_length = 13
   chars = string.ascii letters + string.digits + '!@#$%^&*()'
   random.seed = (os.urandom(1024))
   pswrd = ''.join(random.choice(chars) for i in range(password_length))
   user: object = User.objects.create_user(
       first_name=row['first_name'],
       last_name=row['last_name'],
       email=row['email'],
       username=row['email'],
       password=pswrd)
   subject = 'Welcome to Boolient!'
   html_message = render_to_string( template_name: 'email_temp.html', |context: {'first_name': row['first_name'], 'TempPass': pswrd,
   plain_message = strip_tags(html_message)
   from_email = 'Boolient <auth@boolient.com>'
   to = row['Email']
   mail.send_mail(subject, plain_message, from_email, recipient_list: [to], html_message=html_message)
```

 New user now receives a verification email w/ instructions to set up account

Caveats

- Function not integrated into website
- Struggling to format mail into HTML using the normal Django send_mail function

3rd Draft

```
<mtml lang="en">
<div dir="ltr">Hi {{first_name}},
   Welcome to Boolient! We're thrilled to have you join.
   <strong>Your Account Details:</strong>
            style="..."><strong>User ID:</strong>{{email}}<br>
      style="..."><strong>Temporary Password:</strong>{{TempPass}}
   <strong>Important Note:</strong>
   For enhanced security, we've enabled Multi-Factor Authentication (MFA) on your account. This means that after you log in with your
      <!i style="...">Visit <a href="https://carewell.boolient.com/patient_accounts/" target="_blank">https://carewell.boolient.com/pat
      style="...">Enter your User ID and Temporary Password.
      style="...">Check your email for a security token.
      style="...">Enter the security token when prompted.
      style="...">Once you are logged in, you can <a href="https://carewell.boolient.com/auth/password_change/" target="_blank">cha
   <strong>Need Help?</strong>
   If you have any questions or encounter any difficulties logging in, please don't hesitate to contact us.
   We look forward to having you on board!
   Sincerely,
   Boolient Team</div>
```

 Create an HTML template for the verification email

FINAL Draft

```
def import_new_users(self, request):
 if request.method == 'POST':
num_created_users = 0
       df = pandas.read_csv(request.FILES['new_users_file'])
 if {'last_name', 'first_name', 'email'} <= set(df.columns):</pre>
           num_requested_users = df.shape[0]
      for _, row in df.iterrows():
               if not User.objects.filter(email=row['email']).exists():
         password_length = 13
                   chars = string.ascii_letters + string.digits + '!@#$%^&*()'
                   random.seed = (os.urandom(1024))
                   temp_password = ''.join(random.choice(chars) for i in range(password_length))
                  user: object = User.objects.create_user(
                       first_name=row['first_name'],
                       last name=row['last name'],
                       email=row['email'],
                       username=row['email'],
                       password=temp_password)
                   subject = 'Welcome to Boolient!'
                   html message = render to string(
                        'welcome_email_template.html',
                       {'client': os.environ.get('BOOLIENT_CLIENT'),
                        'first_name': row['first_name'],
                        'temp password': temp password,
                        'email': row['email']})
                   plain_message = strip_tags(html_message)
                   from_email = 'Boolient <auth@boolient.com>'
                   to = row['email']
                   mail.send_mail(subject, plain_message, from_email, [to], html_message=html_message)
                   num_created_users += 1
           messages.success(request, f"""
           New user creation successful: {num_created_users} out of {num_requested_users} in CSV were
           created successfully. An email has been sent to each new user with their temporary password.
           {num_requested_users - num_created_users} users were not created because they already exist in the system.
       else:
                          Incorrect CSV format. Please ensure that the CSV file contains columns for 'first name',
                          'last_name', and 'email'.
    return views.render(request, 'import_new_users.html')def import_new_users(self, request):
```

- Implement error message
- Sends confirmation to admin for processing