*import* re  
*from* django.views.generic.base *import* View  
# import wkhtmltopdf  
# from wkhtmltopdf.views import PDFTemplateResponse  
*import* razorpay *as* razorpay  
*import* six  
*from* django.contrib.auth.decorators *import* login\_required  
*from* django.contrib.auth.forms *import* PasswordResetForm, UserCreationForm  
*from* django.contrib.auth.models *import* User  
*from* django.contrib.auth.tokens *import* PasswordResetTokenGenerator  
*from* django.contrib.sites.shortcuts *import* get\_current\_site  
*from* django.core.exceptions *import* ValidationError, ObjectDoesNotExist  
*from* django.core.mail *import* EmailMessage  
*from* django.forms *import* forms  
*from* django.http *import* HttpResponse, HttpResponseBadRequest, request  
*from* django.shortcuts *import* render, redirect  
*from* django.contrib.auth *import* login, authenticate, get\_user\_model  
*from* django.contrib *import* messages  
*from* django.template.loader *import* render\_to\_string  
*from* django.utils.encoding *import* force\_bytes, force\_str  
*from* django.utils.http *import* urlsafe\_base64\_encode, urlsafe\_base64\_decode  
*from* django.db.models.query\_utils *import* Q  
*from* django.utils.safestring *import* mark\_safe  
*from* django.views.decorators.csrf *import* csrf\_exempt  
*from* datetime *import* datetime  
*from* stream\_selector *import* settings  
*from* .forms *import* ProfileForm, SetPasswordForm  
*from* .models *import* UserBasicInfo, PaymentCheck, SectionFirst, SectionSecond, SectionFive  
  
  
# from django\_xhtml2pdf.utils import pdf\_decorator  
  
@login\_required(login\_url='login/')  
*def* result(*request*):  
 *if request*.user.is\_authenticated:  
 user = *request*.user  
 userdetail = UserBasicInfo.objects.get(user\_id=user.id)  
 *return* render(*request*, 'result.html', {'user\_detail': userdetail})  
  
  
# Creating a class based view  
'''class generate\_report(View):  
 def get(self, request, \*args, \*\*kwargs):  
 if request.user.is\_authenticated:  
 user=request.user  
 userdetail = UserBasicInfo.objects.get(user\_id=user.id)  
 open('result.html', "w").write(render\_to\_string('result.html', {'user\_detail': userdetail}))  
  
 # Converting the HTML template into a PDF file  
 pdf = html\_to\_pdf('result.html')  
  
 # rendering the template  
 return HttpResponse(pdf, content\_type='application/pdf')'''  
  
'''@pdf\_decorator(pdfname='Psychometric\_Test\_Result.pdf')  
def generate\_report(request):  
 if request.user.is\_authenticated:  
 user=request.user  
 userdetail = UserBasicInfo.objects.get(user\_id=user.id)  
 return render(request, 'result.html',{'user\_detail':userdetail})'''  
  
'''class MyPDFView(View):  
 template = 'result.html' # the template  
  
 def get(self, request):  
 if request.user.is\_authenticated:  
 user = request.user  
 userdetail = UserBasicInfo.objects.get(user\_id=user.id)  
 data = {"user\_detail": userdetail} # data that has to be renderd to pdf templete  
  
 response = PDFTemplateResponse(request=request,  
 template=self.template,  
 filename="hello.pdf",  
 context=data,  
 show\_content\_in\_browser=False,  
 cmd\_options={'margin-top': 10,  
 "zoom": 1,  
 "viewport-size": "1366 x 513",  
 'javascript-delay': 1000,  
 'footer-center': '[page]/[topage]',  
 "no-stop-slow-scripts": True},  
 )  
 return response'''  
  
  
@login\_required(login\_url='login/')  
*def* home(*request*):  
 *if request*.user.is\_authenticated:  
 users = UserBasicInfo.objects.all().count()  
 candidate = SectionFive.objects.all().count()  
 payment = PaymentCheck.objects.all().count()  
 *return* render(*request*, 'home.html', {'users': users,  
 'candidate':candidate,  
 'payment' : payment  
 })  
  
  
*def* register(*request*):  
 *if request*.method == "POST":  
 # Get the post parameters  
 username = *request*.POST['username']  
 email = *request*.POST['email']  
 fname = *request*.POST['fname']  
 lname = *request*.POST['lname']  
 pass1 = *request*.POST['pass1']  
 pass2 = *request*.POST['pass2']  
  
 # check for errorneous input  
 *if* len(username) < 5:  
 messages.error(*request*, " Username should more than 5 characters")  
 *return* redirect('register')  
  
 *if not* username.isalnum():  
 messages.error(*request*, " User name should contain letters and numbers")  
 *return* redirect('register')  
  
 *if not* re.fullmatch(r'[A-Za-z0-9@#$%^&+=]{8,}', pass1):  
 messages.error(*request*,"Password Must contain atleast one letter, one number,one special character. Minimum length should be 8 characters")  
 *return* redirect('register')  
  
 *if* (pass1 != pass2):  
 messages.error(*request*, " Passwords do not match")  
 *return* redirect('register')  
  
 *if* username == "" *and* pass1 == "" *and* email == "" *and* fname == "" *and* lname == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("register")  
  
 # Create the user  
 *if not* (User.objects.filter(username=username).exists() *or* User.objects.filter(email=email).exists()):  
 myuser = User.objects.create\_user(username, email, pass1)  
 myuser.first\_name = fname  
 myuser.last\_name = lname  
 myuser.save()  
 messages.success(*request*, " Your account has been successfully created")  
 *return* redirect('home')  
 *else*:  
 messages.error(*request*, "Looks like a username with that email or password already exist")  
 *return* redirect('register')  
 *return* render(*request*, 'register.html', context)  
 *else*:  
 *return* render(*request*, 'register.html')  
  
  
*def* user\_login(*request*):  
 *if request*.method == 'POST':  
 username = *request*.POST['username']  
 password = *request*.POST['password']  
 *if* username == "" *and* password == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("login")  
 user = authenticate(*request*, username=username, password=password)  
 *if* user *is not None*:  
 login(*request*, user)  
 messages.success(*request*, "Successfully Logged In")  
 *return* redirect("home")  
 *else*:  
 messages.error(*request*, "Invalid credentials! Please try again")  
 *return* redirect("login")  
 *else*:  
 *return* render(*request*, 'login.html')  
  
  
@login\_required(login\_url='login/')  
*def* profile(*request*):  
 *if request*.method == 'POST':  
 name = *request*.POST['sname']  
 fathername = *request*.POST['fathername']  
 mothername = *request*.POST['mothername']  
 dob = *request*.POST['dob']  
 gender = *request*.POST['gender']  
 category = *request*.POST['category']  
 address = *request*.POST['address']  
 state = *request*.POST['state']  
 district = *request*.POST['district']  
 city = *request*.POST['city']  
 pin = *request*.POST['pin']  
 area = *request*.POST['area']  
 board = *request*.POST['board']  
 school = *request*.POST['school']  
 school\_type = *request*.POST['school\_type']  
 mobile = *request*.POST['number']  
 anumber = *request*.POST['anumber']  
 # photo = request.FILES['image']  
 *if* name == "" *and* fathername == "" *and* mothername == "" *and* dob == "" *and* gender == "" *and* category == "" *and* \  
 school\_type == "" *and* state == "" *and* city == "" *and* district == "" *and* pin == "" *and* area == "" *and* board == "" *and* school == "" *and* mobile == "" *and* anumber == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("profile")  
  
 user = *request*.user  
 *if request*.user.is\_authenticated:  
 profilemodel = UserBasicInfo()  
 profilemodel.full\_name = name  
 profilemodel.father\_name = fathername  
 profilemodel.mother\_name = mothername  
 profilemodel.dob = datetime.strptime(dob, "%Y-%m-%d")  
 profilemodel.gender = gender  
 profilemodel.category = category  
 profilemodel.address = address  
 profilemodel.state = state  
 profilemodel.district = district  
 profilemodel.city = city  
 profilemodel.pin = pin  
 profilemodel.area = area  
 profilemodel.board = board  
 profilemodel.school\_name = school  
 profilemodel.school\_type = school\_type  
 profilemodel.mobile\_num = mobile  
 profilemodel.parents\_num = anumber  
 profilemodel.user\_id = user.id  
 profilemodel.save()  
  
 # profilemodel = UserBasicInfo.objects.filter(full\_name=name).first()  
 # userimage = UserImage()  
 # userimage.name = profilemodel  
 # userimage.user\_image = photo  
 # userimage.user\_image\_ext = photo.name.split('.')[-1]  
 # userimage.save()  
  
 messages.success(*request*, f'Your data has been added. Now you can take Stream Selection test')  
 *return* redirect('profile')  
 *else*:  
 messages.error(*request*, f'There is some error in your form. Kindly check and fill it again.')  
 *return* redirect('profile')  
 *else*:  
 *return* render(*request*, 'profile.html')  
  
  
@login\_required(login\_url='login/')  
*def* stream\_test(*request*):  
 user = *request*.user  
 *try*:  
 uid = UserBasicInfo.objects.get(user\_id=user.id)  
  
 *if request*.method == 'POST':  
 role = *request*.POST['role\_model']  
 nature = *request*.POST['nature']  
 com\_skills = *request*.POST['comm\_skill']  
 development\_course = *request*.POST['dev\_course']  
 exam\_attempts = *request*.POST['attempt']  
 health\_issues = *request*.POST['health']  
 drugs = *request*.POST['drugs']  
 school\_type = *request*.POST['school\_type']  
 attendance = *request*.POST['attendance']  
 scholarship = *request*.POST['scholarship']  
  
 *if* role == "" *and* nature == "" *and* com\_skills == "" *and* development\_course == "" *and* exam\_attempts == "" *and* health\_issues == "" *and* \  
 drugs == "" *and* school\_type == "" *and* attendance == "" *and* scholarship == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("streamtest")  
 *if request*.user.is\_authenticated:  
 firstmodel = SectionFirst()  
 firstmodel.role = role  
 firstmodel.nature = nature  
 firstmodel.com\_skills = com\_skills  
 firstmodel.development\_course = development\_course  
 firstmodel.exam\_attempts = exam\_attempts  
 firstmodel.health\_issues = health\_issues  
 firstmodel.drugs = drugs  
 firstmodel.school\_type = school\_type  
 firstmodel.attendance = attendance  
 firstmodel.scholarship = scholarship  
 firstmodel.user\_id = user.id  
 firstmodel.save()  
  
 # check errors  
  
 # success message redirect to result page  
 messages.success(*request*, f'Your data has been recorded. Continue with next section')  
 *return* redirect('section\_second')  
 *else*:  
 messages.error(*request*, f'Some error in the form.')  
 *return* redirect('stream\_test')  
 *except* UserBasicInfo.DoesNotExist:  
 messages.error(*request*, f'You forgot to fill Student Information form. Kindly fill it first. ')  
 *return* redirect('profile')  
  
 *return* render(*request*, 'stream\_test.html')  
  
  
@login\_required(login\_url='login/')  
*def* section\_second(*request*):  
 user = *request*.user  
 *try*:  
 # uid = SectionFirst.objects.get(user\_id=user.id)  
 *if request*.method == 'POST':  
 nineth\_marks = *request*.POST['nineth\_marks']  
 math\_nineth\_marks = *request*.POST['math\_nineth\_marks']  
 sci\_nineth\_marks = *request*.POST['sci\_nineth\_marks']  
 tenth\_marks = *request*.POST['tenth\_marks']  
 math\_tenth\_marks = *request*.POST['math\_tenth\_marks']  
 sci\_tenth\_marks = *request*.POST['sci\_tenth\_marks']  
 math\_olympiad = *request*.POST['math\_olympiad']  
 sci\_olympiad = *request*.POST['sci\_olympiad']  
 sci\_workshop = *request*.POST['sci\_workshop']  
 most\_preferred\_sub = *request*.POST['most\_preferred\_sub']  
 least\_preferred\_sub = *request*.POST['least\_preferred\_sub']  
  
 *if* nineth\_marks == "" *and* math\_nineth\_marks == "" *and* sci\_nineth\_marks == "" *and* tenth\_marks == "" *and* math\_tenth\_marks == "" *and* sci\_tenth\_marks == "" *and* \  
 math\_olympiad == "" *and* sci\_olympiad == "" *and* sci\_workshop == "" *and* most\_preferred\_sub == "" *and* least\_preferred\_sub == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("streamtest")  
 *if request*.user.is\_authenticated:  
 secondmodel = SectionSecond()  
 secondmodel.nineth\_marks = nineth\_marks  
 secondmodel.nineth\_marks\_math = math\_nineth\_marks  
 secondmodel.nineth\_marks\_science = sci\_nineth\_marks  
 secondmodel.tenth\_marks = tenth\_marks  
 secondmodel.tenth\_marks\_math = math\_tenth\_marks  
 secondmodel.tenth\_marks\_science = sci\_tenth\_marks  
 secondmodel.math\_olampaid = math\_olympiad  
 secondmodel.sci\_olampaid = sci\_olympiad  
 secondmodel.workshop = sci\_workshop  
 secondmodel.most\_perfered\_sub = most\_preferred\_sub  
 secondmodel.least\_perfered\_sub = least\_preferred\_sub  
 secondmodel.user\_id = user.id  
 secondmodel.save()  
  
 # check errors  
 # success message redirect to result page  
 messages.success(*request*, f'Your data has been added.')  
 *return* redirect('section\_three')  
 *else*:  
 messages.error(*request*, f'Some error in the form.')  
 *return* redirect('section\_second')  
 *except* SectionFirst.DoesNotExist:  
 messages.error(*request*, f'You forgot to answer the Section First. Answer that first')  
 *return* redirect('stream\_test')  
  
 *return* render(*request*, 'section\_second.html')  
  
  
@login\_required(login\_url='login/')  
*def* section\_three(*request*):  
 user = *request*.user  
 *try*:  
 # uid = SectionFirst.objects.get(user\_id=user.id)  
 *if request*.method == 'POST':  
 study\_method = *request*.POST['study\_method']  
 study\_environment = *request*.POST['study\_environment']  
 study\_time\_spent = *request*.POST['study\_time\_spent']  
 games\_time = *request*.POST['games\_time']  
 screen\_time = *request*.POST['screen\_time']  
 role\_model = *request*.POST['role\_model']  
 attempts = *request*.POST['attempts']  
 attendance = *request*.POST['attendance']  
 scholarship = *request*.POST['scholarship']  
 edu\_gap = *request*.POST['edu\_gap']  
  
 *if* study\_method == "" *and* study\_environment == "" *and* study\_time\_spent == "" *and* games\_time == "" *and* screen\_time == "" *and* \  
 role\_model == "" *and* attempts == "" *and* attendance == "" *and* edu\_gap == "" *and* scholarship == "":  
 messages.error(*request*, "Kindly fill the fields")  
 *return* redirect("section\_three")  
 *if request*.user.is\_authenticated:  
 thirdmodel = SectionSecond()  
 secondmodel.study\_method = study\_method  
 secondmodel.study\_environment = study\_environment  
 secondmodel.study\_time\_spent = study\_time\_spent  
 secondmodel.games\_time = games\_time  
 secondmodel.screen\_time = screen\_time  
 secondmodel.role\_model = role\_model  
 secondmodel.attempts = attempts  
 secondmodel.attendance = attendance  
 secondmodel.scholarship = scholarship  
 secondmodel.edu\_gap = edu\_gap  
 secondmodel.user\_id = user.id  
 secondmodel.save()  
  
 # check errors  
 # success message redirect to result page  
 messages.success(*request*, f'Your data has been added.')  
 *return* redirect('result')  
 *else*:  
 messages.error(*request*, f'Some error in the form.')  
 *return* redirect('section\_three')  
 *except* SectionFirst.DoesNotExist:  
 messages.error(*request*, f'You forgot to answer the Section First. Answer that first')  
 *return* redirect('stream\_test')  
  
 render(*request*, 'section\_three.html')  
  
  
*def* section\_four(*request*):  
 render(*request*, 'section\_four.html')  
  
  
*def* section\_five(*request*):  
 render(*request*, 'section\_five.html')  
  
  
*def* section\_six(*request*):  
 render(*request*, 'section\_six.html')  
  
  
*def* section\_seven(*request*):  
 render(*request*, 'section\_seven.html')  
  
  
*def* section\_eight(*request*):  
 render(*request*, 'section\_eight.html')  
  
  
*def* section\_nine(*request*):  
 render(*request*, 'section\_nine.html')  
  
  
*def* section\_ten(*request*):  
 render(*request*, 'section\_ten.html')  
  
  
@login\_required  
*def* password\_change(*request*):  
 user = *request*.user  
 *if request*.method == 'POST':  
 form = SetPasswordForm(user, *request*.POST)  
 *if* form.is\_valid():  
 form.save()  
 messages.success(*request*, "Your password has been changed")  
 *return* redirect('login')  
 *else*:  
 *for* error *in* list(form.errors.values()):  
 messages.error(*request*, error)  
  
 form = SetPasswordForm(user)  
 *return* render(*request*, 'password\_reset\_confirm.html', {'form': form})  
  
  
*class* ActivationTokenGenerator(PasswordResetTokenGenerator):  
 *def* \_make\_hash\_value(self, *user*, *timestamp*):  
 *return* six.text\_type(*user*.pk) + six.text\_type(*timestamp*) + six.text\_type(*user*.username)  
  
  
account\_activation\_token = ActivationTokenGenerator()  
  
  
*def* password\_reset(*request*):  
 *if request*.method == 'POST':  
 form = PasswordResetForm(*request*.POST)  
 *if* form.is\_valid():  
 user\_email = form.cleaned\_data['email']  
 associated\_user = get\_user\_model().objects.filter(Q(email=user\_email)).first()  
 *if* associated\_user:  
 subject = "Password Reset request"  
 message = render\_to\_string("template\_reset\_password.html", {  
 'user': associated\_user,  
 'domain': get\_current\_site(*request*).domain,  
 'uid': urlsafe\_base64\_encode(force\_bytes(associated\_user.pk)),  
 'token': account\_activation\_token.make\_token(associated\_user),  
 "protocol": 'https' *if request*.is\_secure() *else* 'http'  
 })  
 email = EmailMessage(subject, message, to=[associated\_user.email])  
 *if* email.send():  
 messages.success(*request*,  
 """  
 <h2>Password reset sent</h2><hr>  
 <p>  
 We've emailed you instructions for setting your password, if an account exists with the email you entered.   
 You should receive them shortly.<br>If you don't receive an email, please make sure you've entered the address   
 you registered with, and check your spam folder.  
 </p>  
 """  
 )  
 *else*:  
 messages.error(*request*, "Problem sending reset password email, <b>SERVER PROBLEM</b>")  
  
 *return* redirect('home')  
  
 form = PasswordResetForm()  
 *return* render(*request*, "password\_reset.html", context={"form": form})  
  
  
*def* password\_reset\_confirm(*request*, *uidb64*, *token*):  
 User = get\_user\_model()  
 *try*:  
 uid = force\_str(urlsafe\_base64\_decode(*uidb64*))  
 user = User.objects.get(pk=uid)  
 *except*:  
 user = *None  
  
 if* user *is not None and* account\_activation\_token.check\_token(user, *token*):  
 *if request*.method == 'POST':  
 form = SetPasswordForm(user, *request*.POST)  
 *if* form.is\_valid():  
 form.save()  
 messages.success(*request*, "Your password has been set. You may go ahead and <b>log in </b> now.")  
 *return* redirect('homepage')  
 *else*:  
 *for* error *in* list(form.errors.values()):  
 messages.error(*request*, error)  
  
 form = SetPasswordForm(user)  
 *return* render(*request*, 'password\_reset\_confirm.html', {'form': form})  
 *else*:  
 messages.error(*request*, "Link is expired")  
  
 messages.error(*request*, 'Something went wrong, redirecting back to Homepage')  
 *return* redirect("home")  
  
  
@login\_required  
*def* checkout(*request*):  
 currency = 'INR'  
 amount = 1000 # Rs. 10  
  
 # Create a Razorpay Order  
 razorpay\_order = razorpay\_client.order.create(dict(amount=amount,  
 currency=currency,  
 payment\_capture='0'))  
  
 # order id of newly created order.  
 razorpay\_order\_id = razorpay\_order['id']  
 callback\_url = 'payment\_handler/'  
  
 # we need to pass these details to frontend.  
 context = {}  
 context['razorpay\_order\_id'] = razorpay\_order\_id  
 context['razorpay\_merchant\_key'] = settings.RAZOR\_KEY\_ID  
 context['razorpay\_amount'] = amount  
 context['currency'] = currency  
 context['callback\_url'] = callback\_url  
  
 *return* render(*request*, 'checkout.html', context=context)  
  
  
# authorize razorpay client with API Keys.  
razorpay\_client = razorpay.Client(  
 auth=(settings.RAZOR\_KEY\_ID, settings.RAZOR\_KEY\_SECRET))  
  
  
# we need to csrf\_exempt this url as  
# POST request will be made by Razorpay  
# and it won't have the csrf token.  
@csrf\_exempt  
*def* payment\_handler(*request*):  
 # only accept POST request.  
 *if request*.method == "POST":  
 user = *request*.user  
 *try*:  
 # get the required parameters from post request.  
 payment\_id = *request*.POST.get('razorpay\_payment\_id', '')  
 razorpay\_order\_id = *request*.POST.get('razorpay\_order\_id', '')  
 signature = *request*.POST.get('razorpay\_signature', '')  
 params\_dict = {  
 'razorpay\_order\_id': razorpay\_order\_id,  
 'razorpay\_payment\_id': payment\_id,  
 'razorpay\_signature': signature  
 }  
  
 # verify the payment signature.  
 result = razorpay\_client.utility.verify\_payment\_signature(  
 params\_dict)  
 *if* result *is not None*:  
 amount = 10000 # Rs. 10  
 *try*:  
  
 # capture the payemt  
 razorpay\_client.payment.capture(payment\_id, amount)  
 check = PaymentCheck()  
 check.user = user.id  
 check.order\_id = payment\_id  
 payment\_status = "Success"  
 # render success page on successful caputre of payment  
 *return* render(*request*, 'paymentsuccess.html')  
 *except*:  
  
 # if there is an error while capturing payment.  
 *return* render(*request*, 'paymentfailure.html')  
 *else*:  
  
 # if signature verification fails.  
 *return* render(*request*, 'paymentfailure.html')  
 *except*:  
  
 # if we don't find the required parameters in POST data  
 *return* HttpResponseBadRequest()  
 *else*:  
 # if other than POST request is made.  
 *return* HttpResponseBadRequest()  
  
  
*def* error\_404\_view(*request*, *exception*):  
 # we add the path to the the 404.html file  
 # here. The name of our HTML file is 404.html  
 *return* render(*request*, '404.html')