CAPE INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A

PROJECT REPORT

ON

University Admit Eligibility Predictor

Submitted in "HX8001 PROFESSIONAL READINESS FOR INNOVATION EMPOLYABILITY AND ENTREPRENEURSHIP"

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING BY

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1. INTRODUCTION

This is a Requirements Specification Document for a new web-based University Admissions Predictor – UNIPREDICT. Unipredict is an AI based application that asks for the users to input their academic transcripts data and calculates their chances of admission into the University Tier that they selected. It also provides an analysis of the data and shows how chances of admissions can depend on various factors. This document describes the scope, objectives and goals of the system. In addition to describing the non-functional requirements, this document models the functional requirements with use cases, interaction diagrams and class models. This document is intended to direct the design and implementation of the target system in an object-oriented language.

SOFTWARE AND HARDWARE PLATFORMS USED

The following section details the Software and Hardware platforms used to develop the UNIPREDICT Application.

Hardware A home PC – capable of handling light ML processing.

DEVICE SPECIFERS

1. I5 10th Gen processor
2. 8 GB RAM
3. 64 bit Operating System

Software :

1. Visual Studios Code Visual Studios is a free source-code editor made by Microsoft for Windows, Linux and MacOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

2. Anaconda (Jupyter Notebook)

Project Jupyter is a non-profit organization created to "develop open-source software, open-standards, and services for interactive computing across dozens of programming languages".[2] Spun off from IPython in 2014 by Fernando Pérez, Project Jupyter supports execution environments in several dozen languages. Project Jupyter's name is a reference to the three core programming languages supported by Jupyter, which are Julia, Python and R, and also a homage to Galileo's notebooks recording the discovery of the moons of Jupiter.

3. MongoDB MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL).

Online Tools

1. Lucid charts Lucidchart is a web-based proprietary platform that allows users to collaborate on drawing, revising and sharing charts and diagrams. It is produced by Lucid Software Inc., based in Utah, United States.

2. Creately Creately is a visual software to draw and collaborate on ideas, concepts and processes. Use it as a chart and diagram maker/collaboration tool/visual space. It is Free to start.

3. Draw.io Diagrams.net is a free online diagram software for making flowcharts, process diagrams, org charts, UML, ER and network diagrams.

CODE SNIPPETS

AI Model (With code to generate Analysis Graphs):

```
import numpy as np
import pandas as pd
 #import os from matplotlib
 import pyplot as plt from sklearn
 import preprocessing from sklearn.preprocessing
 import StandardScaler from sklearn.model_selection
import train_test_split from sklearn.linear_model
import LinearRegression from sklearn.tree
 import DecisionTreeRegressor from sklearn.ensemble
 import RandomForestRegressor
 import seaborn as sns sns.set(style='white') sns.set(style='whitegrid', color_codes=True) df =
pd.read_csv("Admission_Predict_Ver1.1.csv") df.rename(columns = {'Chance of Admit ':'Chance
of Admit', 'LOR ':'LOR'}, inplace=True) df.drop(labels='Serial No.', axis=1, inplace=True) fig, ax =
plt.subplots(figsize=(10,10)) sns.heatmap(df.corr(), annot=True, cmap='Blues')
plt.figure(figsize=(20,6)


plt.subplot(1,2,1)
sns.distplot(df['CGPA'])
plt.title('CGPA Distribution of Applicants')

plt.subplot(1,2,2)
sns.regplot(df['CGPA'],df['Chance of Admit'])
 plt.title('CGPA vs Chance of Admit')

plt.figure(figsize=(20,6))
 plt.subplot(1,2,1)
 sns.distplot(df['GRE Score'])
 plt.title('Distributed GRE Scores of Applicants')

plt.subplot(1,2,2)
sns.regplot(df['GRE Score'], df['Chance of Admit'])
 plt.title('GRE Scores vs Chance of Admit')



plt.figure(figsize=(20,6))
 plt.subplot(1,2,1) sns.distplot(df['TOEFL Score'])
```

```
 plt.title('Distributed TOEFL Scores of Applicants')

plt.subplot(1,2,2)
sns.regplot(df['TOEFL Score'], df['Chance of Admit'])
 plt.title('TOEFL Scores vs Chance of Admit')

ig, ax = plt.subplots(figsize=(8,6))
sns.countplot(df['Research'])
plt.title('Research Experience')
 plt.ylabel('Number of Applicants')
 ax.set_xticklabels(['No Research Experience', 'Has Research Experience'])

ig, ax = plt.subplots(figsize=(8,6))
 sns.countplot(df['University Rating'])
 plt.title('University Rating')
 plt.ylabel('Number of Applicants')

targets = df['Chance of Admit']
 features = df.drop(columns = {'Chance of Admit'})

X_train, X_test, y_train, y_test = train_test_split(features, targets, test_size=0.2,
random_state=42)

 linreg = LinearRegression()
linreg.fit(X_train, y_train)
y_predict = linreg.predict(X_test)
inreg_score = (linreg.score(X_test, y_test))*100
linreg_score
```

AI Model within the Flask App

```
@app.route('/predictor', methods =['GET','POST'])
def predictor():
    form = PredictorForm()
    if form.is_submitted():

        #form inputs
        Record_dictionary2=request.form.to_dict()
        del Record_dictionary2['csrf_token']
        del Record_dictionary2['submit']
        gre=float(request.form['gre'])
        toefl=float(request.form['toefl'])
        #rating=float(request.form['uni'])
        sop=float(request.form['sop'])
        lor=float(request.form['lor'])
        cgpa=float(request.form['cgpa'])
        research=float(request.form['research'])
        uni=float(request.form['uni'])
        #global personId
        #Record_dictionary2["person_id"]=personId['_id']
        Record_dictionary2["username"]=session['user']

            #--------------------------------prediction model----------------
        import numpy as np
        import pandas as pd
#from matplotlib import pyplot as plt
        import sklearn
        import sklearn.preprocessing
        from sklearn.preprocessing import StandardScaler
        from sklearn.model_selection import train_test_split
        from sklearn.linear_model import LinearRegression
        from sklearn.tree import DecisionTreeRegressor
#from sklearn.ensemble import RandomForestRegressor
#import seaborn as sns
        import pickle
#sns.set(style='white')
#sns.set(style='whitegrid', color_codes=True)

        df = pd.read_csv("static\Admission_Predict_Ver1.1.csv")
```

```
    df.rename(columns = {'Chance of Admit ':'Chance of Admit', 'LOR ':'LOR'}, inplace=Tr
ue)
    df.drop(labels='Serial No.', axis=1, inplace=True)

    targets = df['Chance of Admit']
    features = df.drop(columns = {'Chance of Admit'})

    X_train, X_test, y_train, y_test = train_test_split(features, targets, test_size=0.2, random
_state=42)

    test=[[gre,toefl,uni,lor,sop,cgpa,research]]
    X_test=np.vstack((X_test,test))
    rec_num=X_test.shape[0]

    #scaler = StandardScaler()
    #X_train = scaler.fit_transform(X_train)
    #X_test = scaler.fit_transform(X_test)

    linreg = LinearRegression()
    linreg.fit(X_train, y_train)

    pickle.dump(linreg, open('model.pkl','wb'))

    model=pickle.load(open('model.pkl','rb'))
#print(model.predict([[gre,toefl,rating,sop,lor,cgpa,research]]))

    #----------------------------------end model ---------------------------------
    y_predict=linreg.predict(X_test)
    prediction=round(y_predict[rec_num-1]*100,2)
    #prediction=round(y_predict[0]*100,2)

    if(prediction>=75):
        message="Good Job! Your current scores show that you are well on the path to joinin
g your dream college! Keep up the hardwork and dont forget about the other factors of your a
pplication"
    elif(prediction>=50 and prediction<75):
        message="Needs Improvement! Your current scores show that some more effort to ge
t you to your dream college! If improvement in these areas is not possible, focus on the other
factors of your application"
    else:
        message="Sorry! Your current scores show that the chances of you getting into this ti
er of universities are very slim! Might we suggest that you look at other options?"


    #linreg_score = (linreg.score(X_test,y_test))
    #print(linreg_score)

    Record_dictionary2['prediction']=prediction
```

```
    client1 = pymongo.MongoClient('localhost',27017)
    db = client1['admin']
    db2 =client1["UNIPREDICT"]
    collection=db2["students"]
    collection2=db2["data_table"]

    temp=collection.find({'username':Record_dictionary2['username']})
    print (temp)
    for i in temp:
       Record_dictionary2["First_Name"]=i['firstname']
       Record_dictionary2["Last_Name"]=i['lastname']

    #Record_dictionary3=Record_dictionary2

    collection2.find_one_and_update(
       {'username': session['user']},
       {"$set":
          {'gre' : gre,
          'toefl': toefl,
          'uni': uni,
          'cgpa': cgpa,
          'research': research,
          'sop' : sop,
          'lor': lor,
          'prediction': prediction}
       },upsert=True)

    return render_template('pages/output.html', prediction=prediction, message=message)
return render_template('forms/predictor.html', form=form)
```

Front end student dashoard layout

```
<!doctype html>
<head>
<meta charset="utf-8">
<title>{% block title %}{% endblock %}</title>

<!-- meta -->
<meta name="description" content="">
<meta name="author" content="">
<meta name="viewport" content="width=device-width,initial-scale=1">
<!-- /meta -->

<!-- styles -->
```

```
<link type="text/css" rel="stylesheet" href="/static/css/font-awesome-4.1.0.min.css" />
<link type="text/css" rel="stylesheet" href="/static/css/bootstrap-3.1.1.min.css">
<link type="text/css" rel="stylesheet" href="/static/css/bootstrap-theme-3.1.1.min.css" />
<link type="text/css" rel="stylesheet" href="/static/css/layout.main.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.responsive.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.quickfix.css" />
<!-- /styles -->

<!-- favicons -->
<link rel="shortcut icon" href="/static/ico/favicon.png">
<link rel="apple-touch-icon-precomposed" sizes="144x144" href="/static/ico/apple-touch-
icon-144-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="114x114" href="/static/ico/apple-touch-
icon-114-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="72x72" href="/static/ico/apple-touch-icon-
72-precomposed.png">
<link rel="apple-touch-icon-precomposed" href="/static/ico/apple-touch-icon-57-
precomposed.png">
<link rel="shortcut icon" href="/static/ico/favicon.png">
<!-- /favicons -->

<!-- scripts -->
<script src="/static/js/libs/modernizr-2.8.2.min.js"></script>
<!--[if lt IE 9]><script src="/static/js/libs/respond-1.4.2.min.js"></script><![endif]-->
<!-- /scripts -->

</head>
<body style="background-
image: url('
+') ; background-repeat:no-repeat ; background-size: cover; ">

  <!-- Wrap all page content here -->
  <div id="wrap">

    <!-- Fixed navbar -->
    <div class="navbar navbar-default navbar-fixed-top">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand" href="{{ url_for('home') }}">UNIPREDICT</a>
        </div>
        <div class="collapse navbar-collapse">
```

```
        <ul class="nav navbar-nav">
          <li {% if request.endpoint == 'home' %} class="active" {% endif %}><a href="{{ url
_for('home') }}">Home</a></li>
          <li {% if request.endpoint == 'about' %} class="active" {% endif %}><a href="{{ url
_for('about') }}">About</a></li>
          <li {% if request.endpoint == 'predictor' %} class="active" {% endif %}><a href="{{
url_for('predictor') }}">Predictor</a></li>
          <li class="dropdown">
           <a class="dropdown-toggle" data-
toggle="dropdown">Queries <b class="caret"></b></a>
           <ul class="dropdown-menu">
            <li><a href="{{ url_for('tiers') }}">University Tiers</a></li>
            <li><a href="{{ url_for('requirements') }}">University Requirements</a></li>

           </ul>
          </li>
          <li class="dropdown">
           <a class="dropdown-toggle" data-
toggle="dropdown">Analysis <b class="caret"></b></a>
           <ul class="dropdown-menu">
            <li><a href="{{ url_for('gre') }}">GRE Analysis</a></li>
            <li><a href="{{ url_for('toefl') }}">TOEFL Analysis</a></li>
            <li><a href="{{ url_for('cgpa') }}">CGPA Analysis</a></li>
            <li><a href="{{ url_for('research') }}">Research Analysis</a></li>
            <!--<li class="divider"></li>
            <li class="dropdown-header">Nav header</li>
            <li><a>Separated link</a></li>
            <li><a>One more separated link</a></li>-->
           </ul>
          </li>
         </ul>
         <ul class="nav navbar-nav pull-right">
          <li><a href="{{ url_for('profile') }}">Profile</a></li>
          <li><a href="{{ url_for('login') }}">Logout</a></li>
         </ul>
        </div><!--/.nav-collapse -->
      </div>
     </div>

     <!-- Begin page content -->

     <main id="content" role="main" class="container" >

      {% with messages = get_flashed_messages() %}
       {% if messages %}
        {% for message in messages %}
         <div class="alert alert-block alert-error fade in">
          <a class="close" data-dismiss="alert">&times;</a>
```

```
            {{ message }}
          </div>
        {% endfor %}
      {% endif %}
    {% endwith %}

    {% block content %}{% endblock %}

  </main>

 </div>

 <div id="footer">
  <div class="container">
   <p>UNIPREDICT &copy; All Rights Reserved.</p>
   {% block footer %}{% endblock %}
  </div>
 </div>

 <script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min
.js"></script>
 <script>window.jQuery || document.write('<script type="text/javascript" src="/static/js/libs/j
query-1.11.1.min.js"><\/script>')</script>
 <script type="text/javascript" src="/static/js/libs/bootstrap-3.1.1.min.js" defer></script>
 <script type="text/javascript" src="/static/js/plugins.js" defer></script>
 <script type="text/javascript" src="/static/js/script.js" defer></script>
 <!-- Google Analytics - Change UA-XXXXX-X to be your site's ID -->
 <script>
 window._gaq = [['_setAccount','UAXXXXXXXX1'],['_trackPageview'],['_trackPageLoadTi
me']];
 Modernizr.load({
  load: ('https:' == location.protocol ? '//ssl' : '//www') + '.google-analytics.com/ga.js'
 });
 </script>

</body>
</html>
```

Admin Dashboard Layout

```
<!doctype html>
<head>
<meta charset="utf-8">
<title>{% block title %}{% endblock %}</title>

<!-- meta -->
<meta name="description" content="">
<meta name="author" content="">
```

```
<meta name="viewport" content="width=device-width,initial-scale=1">
<!-- /meta -->

<!-- styles -->
<link type="text/css" rel="stylesheet" href="/static/css/font-awesome-4.1.0.min.css" />
<link type="text/css" rel="stylesheet" href="/static/css/bootstrap-3.1.1.min.css">
<link type="text/css" rel="stylesheet" href="/static/css/bootstrap-theme-3.1.1.min.css" />
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<link type="text/css" rel="stylesheet" href="/static/css/main.css" />
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<link type="text/css" rel="stylesheet" href="/static/css/main.quickfix.css" />
<!-- /styles -->

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icon-114-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="72x72" href="/static/ico/apple-touch-icon-
72-precomposed.png">
<link rel="apple-touch-icon-precomposed" href="/static/ico/apple-touch-icon-57-
precomposed.png">
<link rel="shortcut icon" href="/static/ico/favicon.png">
<!-- /favicons -->

<!-- scripts -->
<script src="/static/js/libs/modernizr-2.8.2.min.js"></script>
<!--[if lt IE 9]><script src="/static/js/libs/respond-1.4.2.min.js"></script><![endif]-->
<!-- /scripts -->

</head>
<body style="background-
image: url('
+ e66nD1cOIRn7yjErR14nNDrdy+/+FyLoy/wDJYZi1E/fl8SFh4sq7Ft++') ; background-
repeat:no-repeat ; background-size: cover; ">

  <!-- Wrap all page content here -->
  <div id="wrap">

    <!-- Fixed navbar -->
    <div class="navbar navbar-default navbar-fixed-top">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
```

```
<meta name="viewport" content="width=device-width,initial-scale=1">
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<link type="text/css" rel="stylesheet" href="/static/css/bootstrap-theme-3.1.1.min.css" />
<link type="text/css" rel="stylesheet" href="/static/css/layout.main.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.responsive.css" />
<link type="text/css" rel="stylesheet" href="/static/css/main.quickfix.css" />
<!-- /styles -->

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icon-144-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="114x114" href="/static/ico/apple-touch-
icon-114-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="72x72" href="/static/ico/apple-touch-icon-
72-precomposed.png">
<link rel="apple-touch-icon-precomposed" href="/static/ico/apple-touch-icon-57-
precomposed.png">
<link rel="shortcut icon" href="/static/ico/favicon.png">
<!-- /favicons -->

<!-- scripts -->
<script src="/static/js/libs/modernizr-2.8.2.min.js"></script>
<!--[if lt IE 9]><script src="/static/js/libs/respond-1.4.2.min.js"></script><![endif]-->
<!-- /scripts -->

</head>
<body style="background-
image: url('
+ e66nD1cOIRn7yjErR14nNDrdy+/+FyLoy/wDJYZi1E/fl8SFh4sq7Ft++') ; background-
repeat:no-repeat ; background-size: cover; ">

  <!-- Wrap all page content here -->
  <div id="wrap">

    <!-- Fixed navbar -->
    <div class="navbar navbar-default navbar-fixed-top">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
```

```
    {% with messages = get_flashed_messages() %}
      {% if messages %}
        {% for message in messages %}
          <div class="alert alert-block alert-error fade in">
            <a class="close" data-dismiss="alert">&times;</a>
            {{ message }}
          </div>
        {% endfor %}
      {% endif %}
    {% endwith %}

    {% block content %}{% endblock %}

   </main>

  </div>

  <div id="footer">
   <div class="container">
    <p>UNIPREDICT &copy; All Rights Reserved.</p>
    {% block footer %}{% endblock %}
   </div>
  </div>

  <script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min
.js"></script>
  <script>window.jQuery || document.write('<script type="text/javascript" src="/static/js/libs/j
query-1.11.1.min.js"><\/script>')</script>
  <script type="text/javascript" src="/static/js/libs/bootstrap-3.1.1.min.js" defer></script>
  <script type="text/javascript" src="/static/js/plugins.js" defer></script>
  <script type="text/javascript" src="/static/js/script.js" defer></script>
  <!-- Google Analytics - Change UA-XXXXX-X to be your site's ID -->
  <script>
  window._gaq = [['_setAccount','UAXXXXXXXX1'],['_trackPageview'],['_trackPageLoadTi
me']];
  Modernizr.load({
   load: ('https:' == location.protocol ? '//ssl' : '//www') + '.google-analytics.com/ga.js'
  });
  </script>

</body>
</html>
```

Forms Layout

```
<!doctype html>
```

```
      {% for message in messages %}
        <div class="alert alert-warning fade in">
          <a class="close" data-dismiss="alert">&times;</a>
          {{ message }}
        </div>
      {% endfor %}
    {% endif %}
  {% endwith %}

  {% block content %}{% endblock %}

 </div>

 <script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min
.js"></script>
 <script>window.jQuery || document.write('<script type="text/javascript" src="/static/js/libs/j
query-1.11.1.min.js"><\/script>')</script>
 <script type="text/javascript" src="/static/js/libs/bootstrap-3.1.1.min.js" defer></script>
 <script type="text/javascript" src="/static/js/plugins.js" defer></script>
 <script type="text/javascript" src="/static/js/script.js" defer></script>

 <!-- Google Analytics - Change UA-XXXXX-X to be your site's ID -->
 <script>
 window._gaq = [['_setAccount','UAXXXXXXXX1'],['_trackPageview'],['_trackPageLoadTi
me']];
 Modernizr.load({
  load: ('https:' == location.protocol ? '//ssl' : '//www') + '.google-analytics.com/ga.js'
 });
 </script>

</body>
</html>
```

Login Authenticate

```
#before request
@app.before_request
def before_request():
   g.user =None

   if 'user' in session:
      g.user = session['user']


@app.route('/', methods=['GET','POST'])
def login():
```

```
    form = LoginForm()
    session.pop('user',None)
    if form.is_submitted():
        try:
            Input_Username = request.form['username']
            Input_Password = request.form['password']
            print(Input_Username, Input_Password)

            client = pymongo.MongoClient('localhost',27017)
            client.admin.authenticate(Input_Username, Input_Password)
            print("connected")

            session['user'] = request.form['username']

            return redirect(url_for('home'))
        except:
            return redirect(url_for('incorrect_pass'))
    return render_template('forms/login.html', form=form)
```

View All Records for Admin

```
@app.route('/view_all', methods=['GET','POST'])
def view_all():
    reset()
    client= pymongo.MongoClient('localhost',27017)
    db=client['admin']
    db2=client["UNIPREDICT"]
    collection=db2["data_table"]
    Found_Record = collection.find()
    for i in Found_Record:
        Found_list.append(i)
    if Found_list != []:
        First_Record = Found_list[0]
    length=len(Found_list)
    return render_template('pages/view_all.html', First_Record=First_Record,Found_list=Foun
d_list,length=length)
```

Access to Pages

```
@app.route('/home_admin')
def home_admin():
    return render_template('pages/admin.home.html')


@app.route('/about')
```

```
def about():
    return render_template('pages/placeholder.about.html')

@app.route('/about_admin')
def about_admin():
    return render_template('pages/admin.about.html')

@app.route('/output')
def output():
    return render_template('pages/output.html')


@app.route('/tiers')
def tiers():
    return render_template('pages/uni_tiers.html')

@app.route('/tiers_admin')
def tiers_admin():
    return render_template('pages/admin.tiers.html')


@app.route('/requirements')
def requirements():
    return render_template('pages/uni_req.html')


@app.route('/requirements_admin')
def requirements_admin():
    return render_template('pages/admin.requirements.html')
```

Profile

```
@app.route('/profile', methods=['GET','POST'])
def profile():
    #need to retrieve
    reset()
    client= pymongo.MongoClient('localhost',27017)
    db=client['admin']
    db2=client["UNIPREDICT"]
    collection=db2["data_table"]
    temp=collection.find({'username':session['user']})
    for i in temp:
        Record_dictionary=i
    listing = db.command('usersInfo')
    for document in listing['users']:
        if g.user == document['user']:
            First_Record = document
    return render_template('pages/profile.html', First_Record=First_Record, Record_dictionary
=Record_dictionary)
```

```
@app.route('/profile_admin', methods=['GET','POST'])
def profile_admin():
    #need to retrieve
    reset()
    client= pymongo.MongoClient('localhost',27017)
    db=client['admin']

    listing = db.command('usersInfo')
    for document in listing['users']:
        if g.user == document['user']:
            First_Record = document
    return render_template('pages/admin.profile.html', First_Record=First_Record)
```

Prediction Form

```
{% extends 'layouts/main.html' %}
{% block title %}Register{% endblock %}
{% block content %}
<div style= "background-color: rgb(37, 37, 37);position: relative; border-color: black; border-
radius:10pt; border-width: 10pt; padding-top: 5pt; padding-bottom: 20pt; padding-
block: 10pt; margin-top: 40pt;"><br><br>

    <h1 style="color: darkgoldenrod; padding-
bottom: 50pt;"><b><center>LETS TAKE A LOOK AT THOSE NUMBERS!</center></b>
</h1>

   <div class="row" style="padding-left: 50pt; padding-right: 50pt;">
     <div class="p-5">
       <div class="text-center">
         <form class="user" method="POST" id="predictor" action="{{ url_for('predictor') }}"
>
       {{form.csrf_token}}

       <div class="form-group col-md-6"  style="color:cornsilk">
        {{form.gre.label}}
        {{form.gre (class_="form-control")}}
        </div>
        <div class="form-group col-md-6"  style="color:cornsilk">
        {{form.toefl.label}}
        {{form.toefl (class_="form-control")}}
        </div>
        <div class="form-group col-md-6"  style="color:cornsilk">
         {{form.cgpa.label}}
         {{form.cgpa (class_="form-control")}}
         </div>
         <div class="form-group col-md-6"  style="color:cornsilk">
```

```
        {{form.uni.label}}
        {{form.uni (class_="form-control")}}
        </div>
       <div class="form-group col-md-4"  style="color:cornsilk">
       {{form.research.label}}
       {{form.research (class_="form-control")}}
       </div>

      <div class="form-group col-md-4"  style="color:cornsilk">
       {{form.lor.label}}
       {{form.lor (class_="form-control")}}
      </div>
      <div class="form-group col-md-4"  style="color:cornsilk">
        {{form.sop.label}}
        {{form.sop (class_="form-control")}}
      </div>

     <center>
     {{form.submit()}}
  </center>

   </form>
  </div>
  </div>
  </div>

{% endblock %}
```

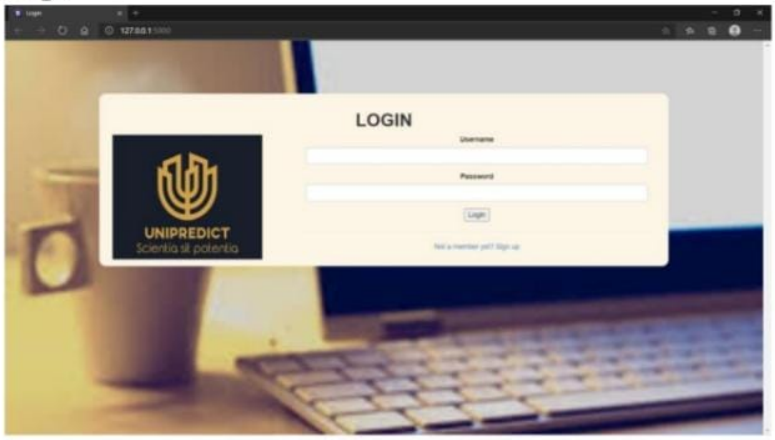
Home Page for Student

```
{% extends 'layouts/main.html' %}
{% block title %}Home{% endblock %}
{% block content %}


<div style= "background-color: rgb(37, 37, 37);position: relative; border-color: black; border-radius:10pt; border-width: 10pt; padding-top: 5pt; padding-bottom: 20pt; padding-block: 10pt; margin-top: 40pt;"><br><br>
  <h2 style="color:darkgoldenrod;"><b><center>UNIPREDICT</center></b></h2>

<h3 style="color:rgb(233, 95, 15)"><b><center>UNIPREDICT is your goto website when it comes to admissions to foreign universities from India for higher education.
</center></b></h3>
<br>
<div style="color: cornsilk; padding-left: 20pt; padding-right: 20pt;">
<h4><b>   In keeping with out moto- "Knowledge is Power", we bring to you the following features in our application : </b></h4> <br>
```

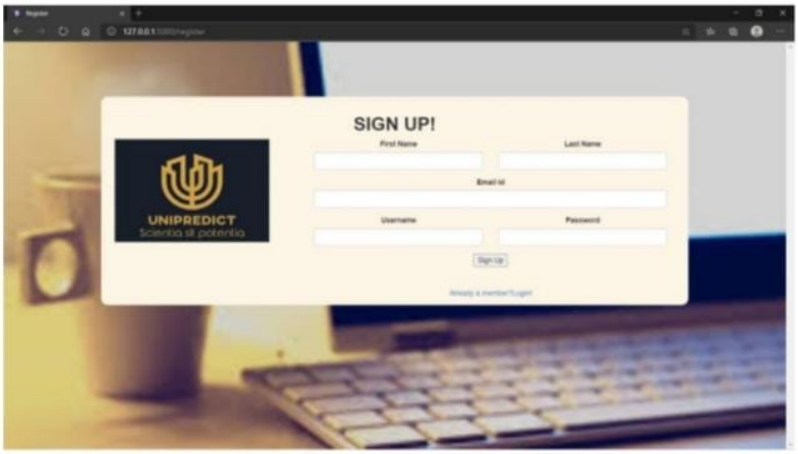
```
<h4>   1. The built in smart PREDICTOR takes your academic transcript
s data as input and then evaluates it and brings to you </h4>
<h4>       your predicted chances of admission into th
e level of university of your choice.</h4>
<h4>   2. The QUERIES tab provides answers to the most common quest
ions that arise including providing the explanation of the</h4>
<h4>       tiers of the universities along with a descrip
tive analysis of the transcript thresholds for the various unversities. </h4>
<h4>   3. The ANALYSIS tab provides you a chance to see a graphical re
presentation of how the various scores</h4>
<h4>       impact your chances of admissions</
h4>
<h4>   4. You can also view your PROFILE and then logout of the app o
nce you are done!</h4>
  <h3 style="color:rgb(233, 95, 15)"><center><i><b>All the very best and may the odds be e
ver in your favour!</b></i></center></h3>
<br>
<br>
</div>
</div>
{% endblock %}
```

Screenshots

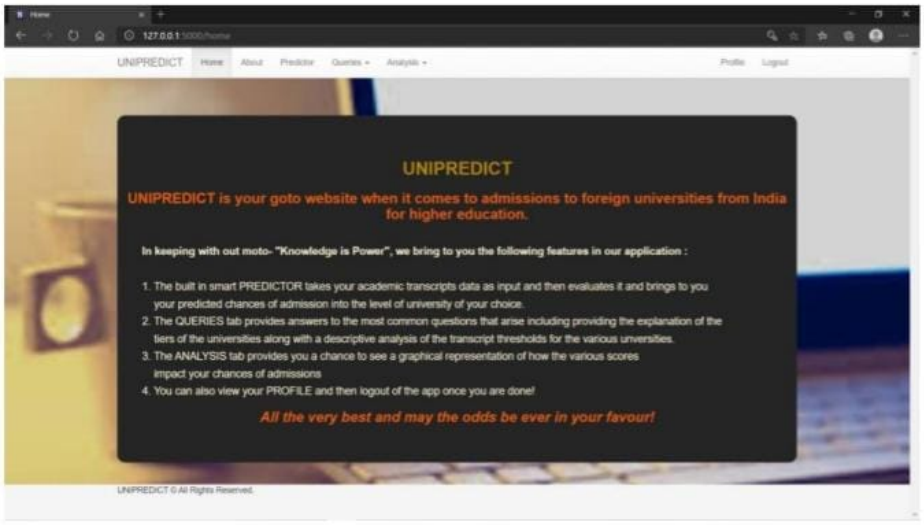
1. **Login Page**

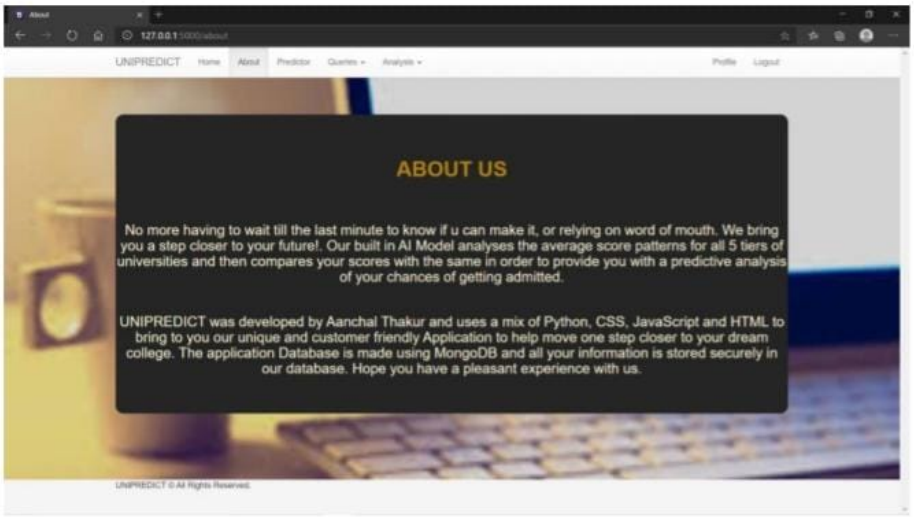


2. **Sign Up Page**

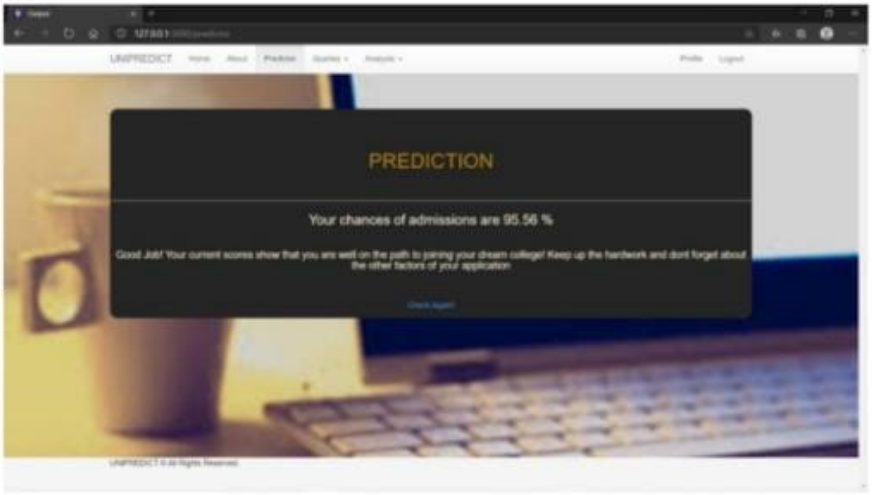


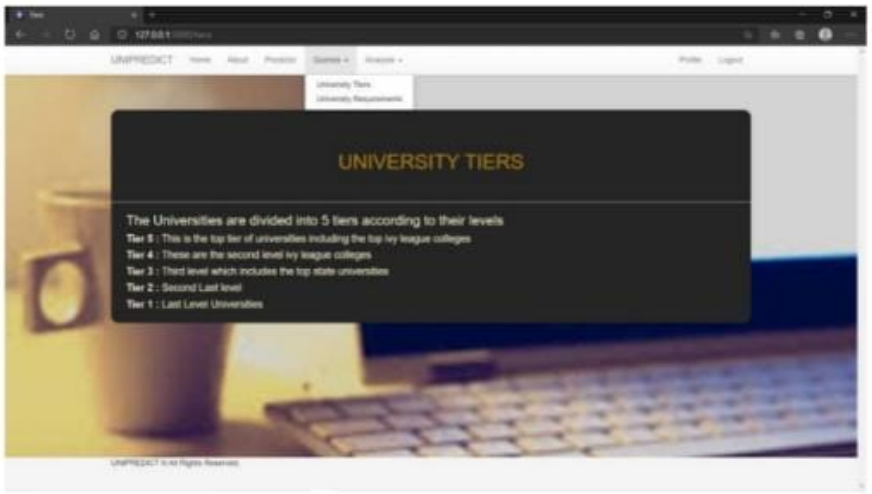
3.Student Dashboard

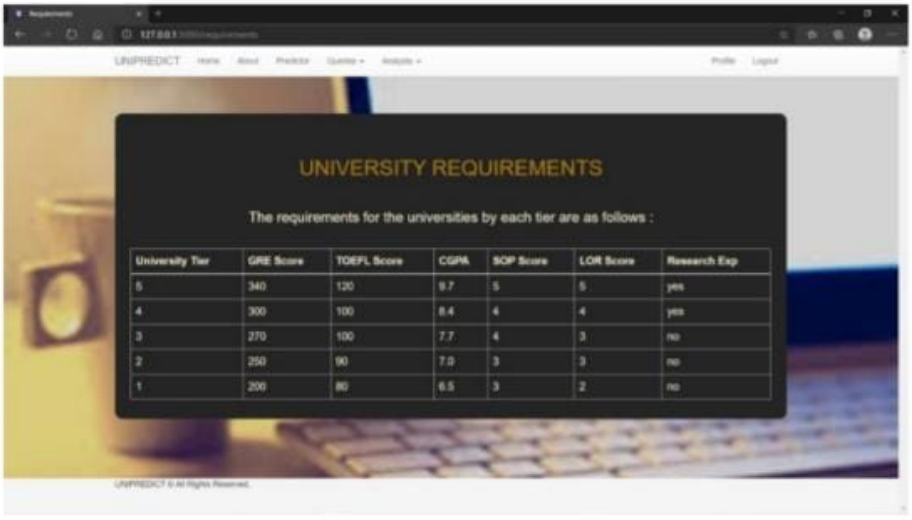


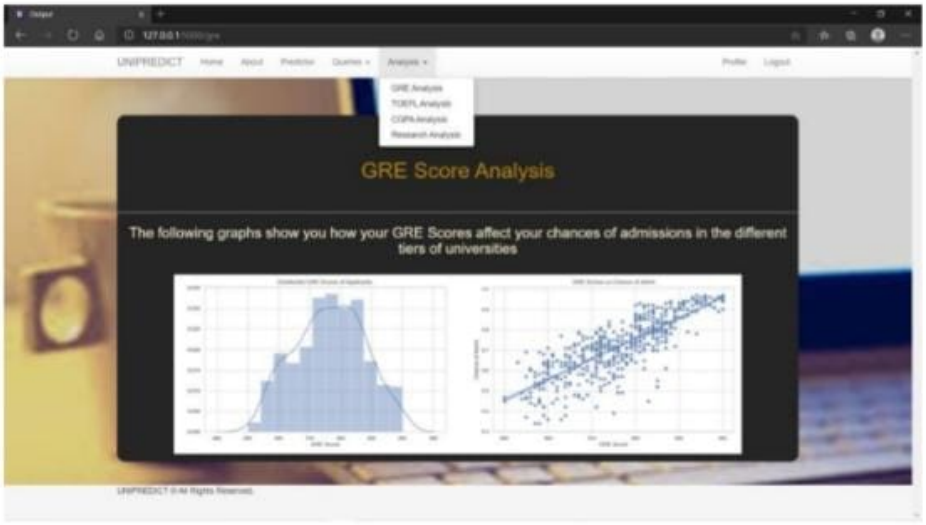


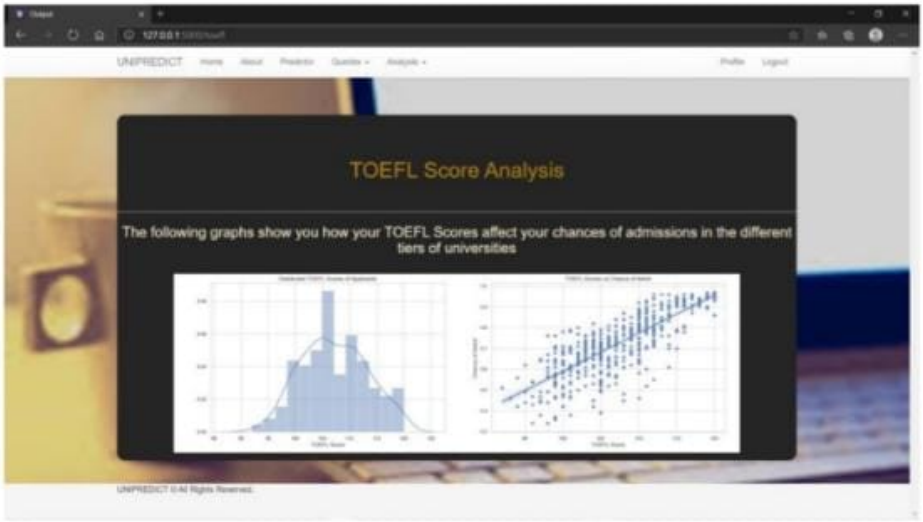

UNIPREDICT
Home
About
Predictor
Queries
Analysis
Profile
Logout
LETS TAKE A LOOK AT THOSE NUMBERS!
GRE Score (Out of 340)
TOEFL Score (Out of 120)
CGPA (Out of 10)
University Rating (Out of 5)
Research Experience
Letter of Recommendation Score (Out of 5)
Statement of Purpose Score (Out of 5)
Predict


UNIPREDICT
Home
About
Predictor
Queries
Analysis
Profile
Logout
PREDICTION
Your chances of admissions are 95.56 %
Good Job! Your current scores show that you are well on the path to joining your dream college! Keep up the hardwork and dont forget about the other factors of your application

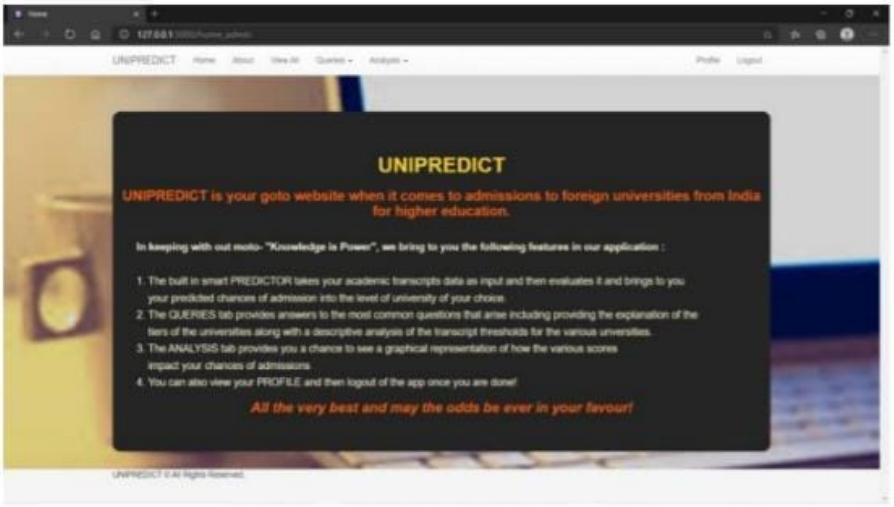

UNIPREDICT
Home
About
Predictor
Queries
Analysis
Profile
Logout
University Tiers
University Requirements
UNIVERSITY TIERS
The Universities are divided into 5 tiers according to their levels
Tier 5 : This is the top tier of universities including the top ivy league colleges
Tier 4 : These are the second level ivy league colleges
Tier 3 : Third level which includes the top state universities
Tier 2 : Second Last level
Tier 1 : Last Level Universities

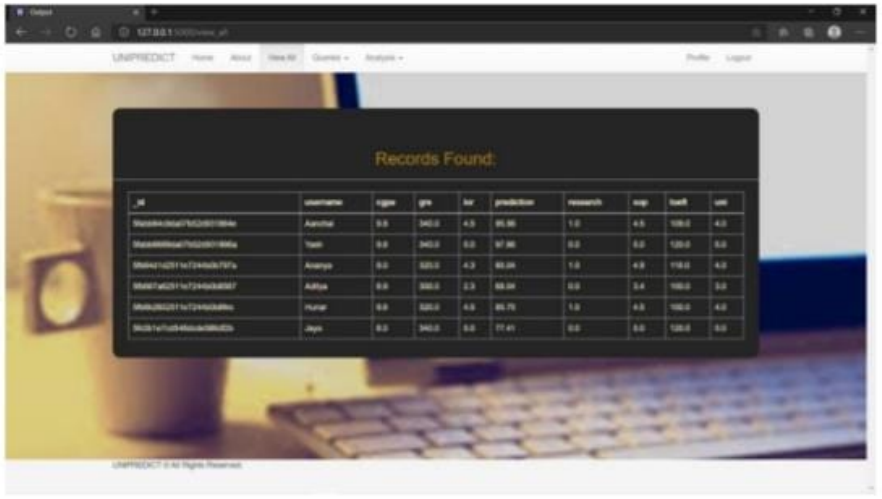






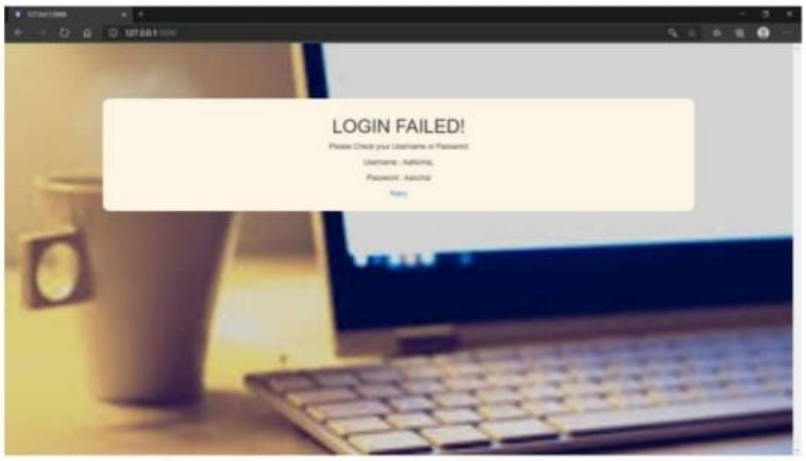
4.Admin Dashboard

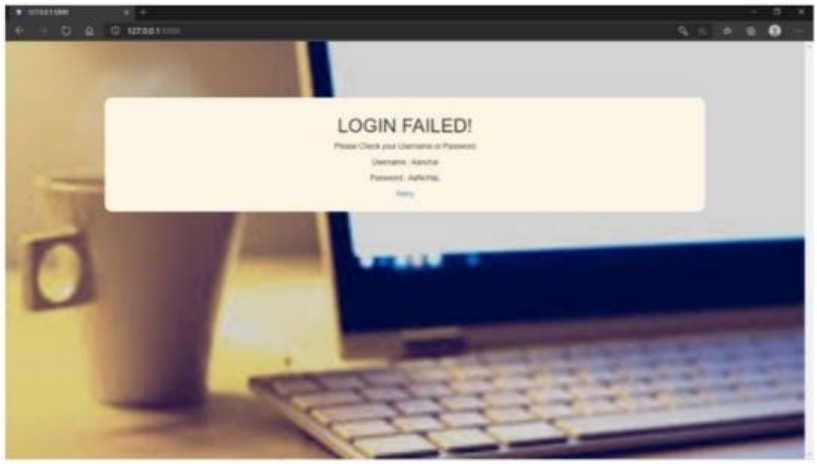

UNIPREDICT
UNIPREDICT is your goto website when it comes to admissions to foreign universities from India for higher education.
In keeping with out moto- "Knowledge is Power", we bring to you the following features in our application :
1. The built in smart PREDICTOR takes your academic transcripts data as input and then evaluates it and brings to you your predicted chances of admission into the level of university of your choice.
2. The QUERIES tab provides answers to the most common questions that arise including providing the explanation of the tiers of the universities along with a descriptive analysis of the transcript thresholds for the various universities.
3. The ANALYSIS tab provides you a chance to see a graphical representation of how the various scores impact your chances of admissions.
4. You can also view your PROFILE and then logout of the app once you are done!
All the very best and may the odds be ever in your favour!

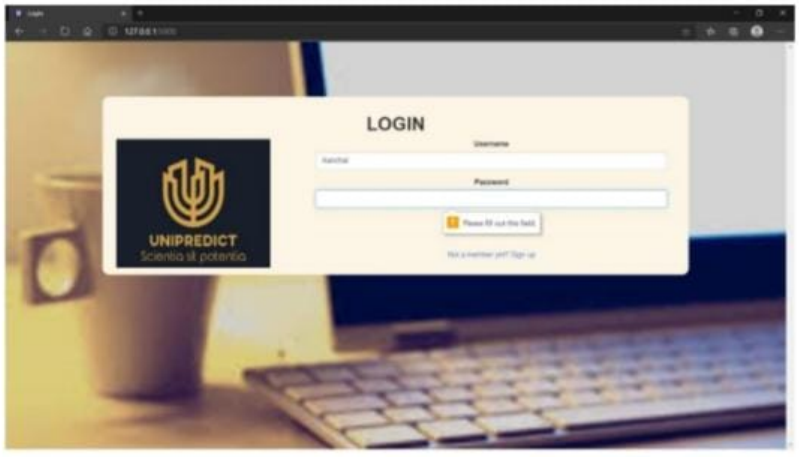

Records Found:

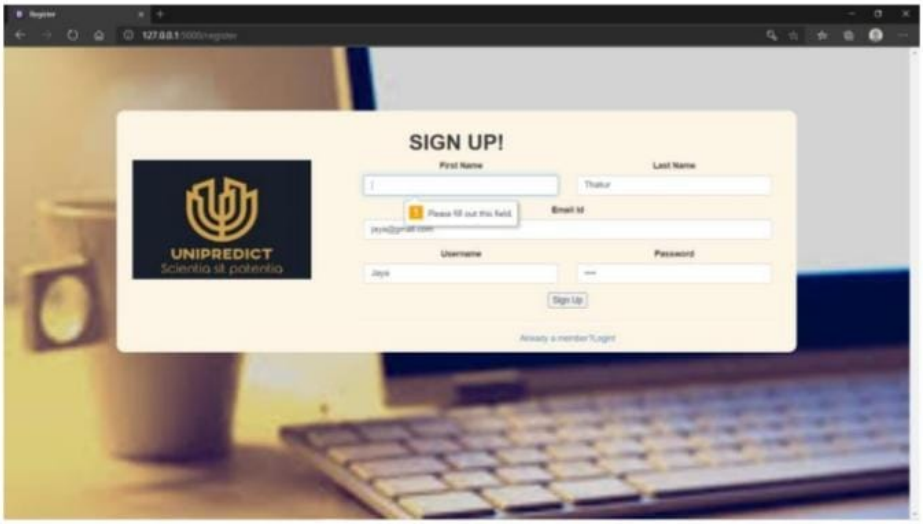

USER PROFILE
USERNAME Administrator
Role: Administrator

5.Errors


LOGIN FAILED!

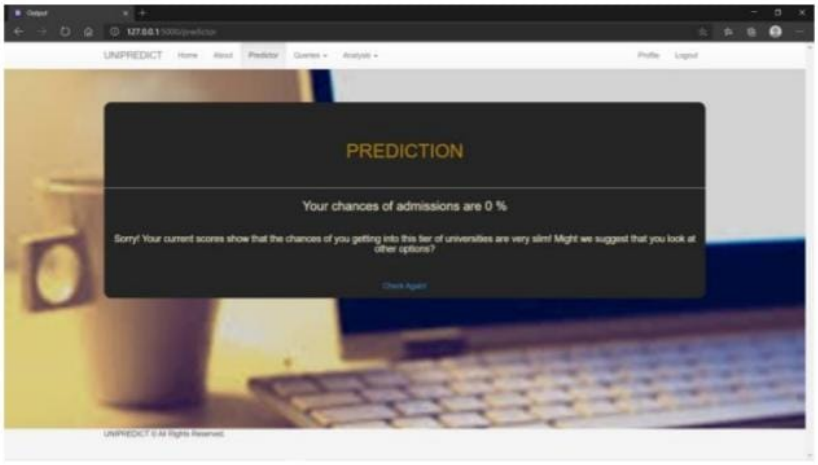

LOGIN FAILED!

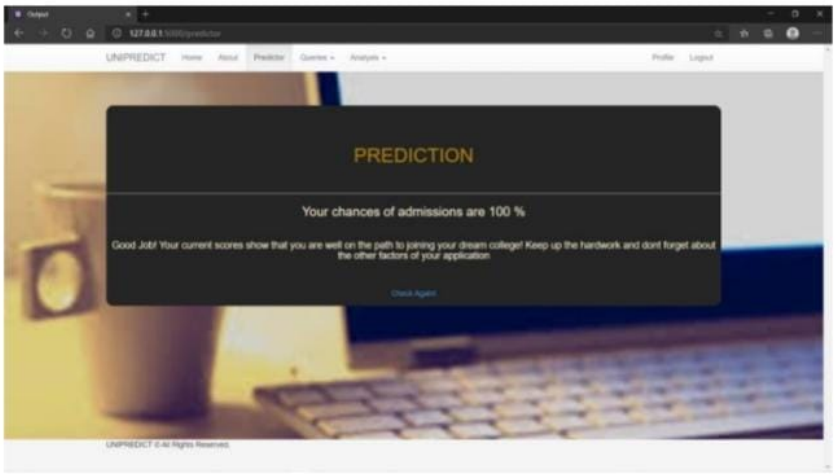

LOGIN
UNIPREDICT
Scientia sit potentia


SIGN UP!
First Name
Last Name
Thakur
Please fill out this field.
Email Id
Username
Password
Jaya
Sign Up
Already a member?Login
UNIPREDICT
Scientia sit potentia

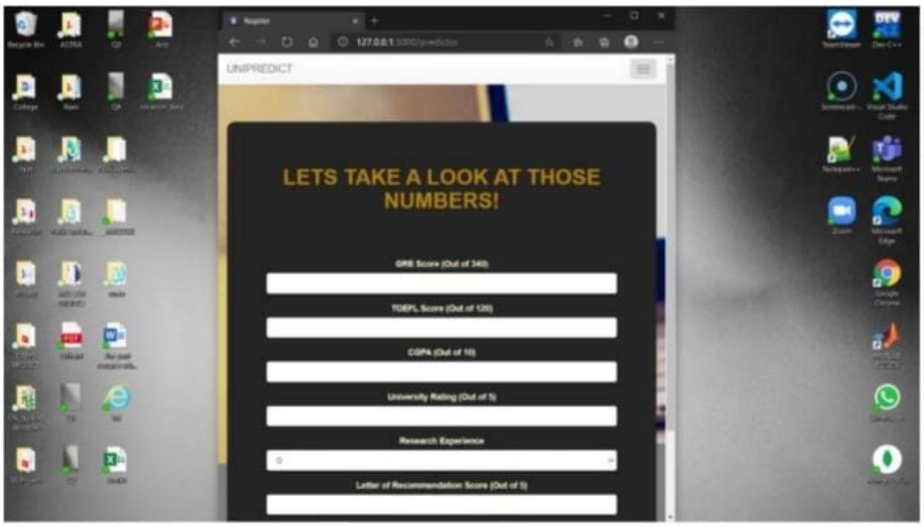

UNIPREDICT
Home
About
Predictor
Queries
Analysis
Profile
Logout
LETS TAKE A LOOK AT THOSE NUMBERS!
GRE Score (Out of 340)
TOEFL Score (Out of 120)
Please fill out this field.
University Rating (Out of 5)
Research Experience
Letter of Recommendation Score (Out of 5)
Statement of Purpose Score (Out of 5)
Predict
UNIPREDICT © All Rights Reserved.

6.Boundary Values





7.Windows



8.Mongo Compass