

Visvesvaraya Technological University

“Jnana Sangama” , Belgavi - 590018



A PROJECT PHASE I REPORT (17ISP78) ON

“Difficult Topic Recommendation System”

submitted in partial fulfillment of the Requirements for 8th Semester of

BACHELOR OF ENGINEERING

in

INFORMATION SCIENCE & ENGINEERING

by

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Certificate

This is to certify that the project work entitled, “**Difficult Topic Recommendation System**”, is a bonafide work carried out by **Pratyush Kumar(1CR17IS069)**, **Saurav Sagar(1CR17IS082)** & **Virat Bhuwania(1CR17IS108)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science & Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2020-21. It is certified that all corrections/suggestions indicated during reviews have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the said Degree.

Name & Signature of Guide
(Mrs. Dhanya Vishwanath)
Dept. of ISE, CMRIT

Name & Signature of HOD
(Dr. M. Farida Begam)
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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

DECLARATION

We, the bonafide students of 7th semester, Information Science & Engineering, CMR Institute of Technology, Bangalore, hereby declare that the report entitled “**Difficult Topic Recommendation System**” has been carried out by us under the guidance of **Mrs. Dhanya Vishwanath**, Assistant Professor Information Science & Engineering Department, CMRIT Bangalore. This dissertation work is submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in **Information Science Engineering**, of the Visvesvaraya Technological University, Belgaum during the academic year 2020-2021. Further the matter embodied in the project report has not been submitted previously by anybody for the award of any degree or diploma to any university.

Place: Bengaluru

Date: 10/08/2021

Team members:

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2. Saurav Sagar (1CR17IS082)
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ABSTRACT

The Aim of this project is to make a backend as well as frontend application for revolving the engineering books,notes and solving doubts of students in the college institution. It involves uploading the books,notes and doubts which are useful for them. Students of the college can either add the books or the notes or ask the doubts as well in the website. With the help of machine learning we are analysing that which topic is difficult to understand. This project has been developed using HTML, CSS, Bootstrap, Javascript, React JS, Python, Django, Django Rest Framework, MySQL, Machine Learning.

Acknowledgment

I take this opportunity to express my sincere gratitude and respect to **CMR Institute of Technology, Bengaluru** for providing me a platform to pursue my studies and carry out my final year project

I have a great pleasure in expressing my deep sense of gratitude to **Dr. Sanjay Jain**, Principal, CMRIT, Bangalore, for his constant encouragement.

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I also extend my thanks to our project coordinator **Prof. Vidya U** and all the faculty of Information Science and Engineering who directly or indirectly encouraged me.

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CHAPTER 1

INTRODUCTION

Difficult Topic Recommendation System will be used to clarify the doubts from the teachers of their own choice. It will also solve the problem of books and notes. Students can study from the notes of their choice i.e from teacher notes or student notes. We will analyse the doubts of the students. By doing that teachers will get to know that in which topic the students are getting more doubt and from next time teachers will put more effort on that topic.

CHAPTER 2

LITERATURE SURVEY

Paper 1:-

<Reference to the paper>

11th CIRP Conference on Industrial Product-Service Systems:-

College Library Personalized Recommendation System Based on Hybrid Recommendation Algorithm.

Yonghong Tian, Bing Zheng, Yanfang Wang, Yue Zhang, Qi Wu

<Takeaway from the paper>

When the number of books provided by library is relatively large, it becomes difficult for user to select appropriate book from a lot of candidate books. Aiming to help user overcome the problem, this article proposed a hybrid algorithm, which is based on the collaborative filtering algorithm and content based algorithm. On this basis, Spark big data platform is combined to achieve the personalized book recommendation system and improve the utilization rate of book resources. The main contributions of this paper include: (1) describe the architecture of the hybrid recommender system and the details of all procedures of recommender system; (2) several studies empirically compare the performance of the hybrid with the pure collaborative and content-based methods; (3) demonstrate that the hybrid methods can provide more accurate recommendations than pure approaches. In the future, we will study the following two aspects: (1) Investigate different technologies for improving the performance of system. (2) Solve the problem of user cold start.

Paper 2:-

<Reference to the paper>

A Novel Approach for Book Recommendation using Fuzzy based Aggregation.

Article in Indian Journal of Science and Technology · February 2017

Shahab Saquib Sohail¹, Jamshed Siddiqui¹ and Rashid Ali²

DOI: 10.17485/ijst/2017/v10i19/96787

<Takeaway from the paper>

Fuzzy techniques have been used widespread for various scientific and daily life problems. Ordered Weighted Averaging (OWA) operator is a well-known fuzzy based averaging operator. A variety of its applications have been presented in the literature.

Several authors have used OWA operator for various applications. The author (Beg, 2005) used OWA operator based novel fuzzy queries for web searching. The researchers have also applied the OWA operator's application in several GIS environments..

Paper 3:-

<Reference to the paper>

An improvement of supplementary book suggestion system

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<Takeaway from the paper>

In this paper, an efficient supplementary book suggestion system, called eSBS (efficient Supplementary Book Suggestion) system, is introduced to improve efficiency of the current system on discovering books relevant to a course description of a course. eSBS collects more course descriptions and terminologies, revises text processing, adds two new procedures: i)

adjective removal and ii) subset removal. Besides, some linguistic rules are updated. These three changes can help to correctly identify important contents (i.e. reserved word and keywords) contained in a course description (also in a book). Last, three new similarity matching techniques and a new similarity calculation are designed and applied to increase accuracy of identifying books relevant to a course description. Based on the experiments, the results show that the new proposed eSBS system outperforms the existing SBS system and the other two well-know keyword extraction algorithms in the terms of accuracy, recall, precision and F-measure on keyword extraction. Moreover, the percentages that suggested books from the eSBS system can cover course contents are also improved.

CHAPTER 3

PROBLEM DEFINITION

3.1 Objective:- Difficult Topic Recommendation System using Machine Learning.

3.2 Description:-

In Difficult Topic Recommendation System , B stands for Book, D stands for Doubt, N stands for Notes. This is web development project in which we are using machine learning.

3.3 Problem:-

- Doubt during exam times.
- Teacher clarify the common doubt separately to the students which is time consuming.
- Only teachers notes are available.
- Shortage of the book in the library.

3.4 Solution:-

- Doubt can be solved by using audio solution, video solution or by document solution.
- Teacher will have to clarify the common doubt only once.
- Toppers notes will also be available and students can study the notes whichever they want.
- Shortage of books can be solved.

3.5 How?

Difficult Topic Recommendation System will be used to clarify the doubts from the teachers of their own choice. It will also solve the problem of books and notes. Students can study from the notes of their choice i.e from teacher notes or student notes. We will analyse the doubts of the students. By doing that teachers will get to know that in which topic the students are getting more doubt and from next time teachers will put more effort on that topic.

Chapter 4

REQUIREMENTS

4.1 SYSTEM REQUIREMENT

4.1.1 Hardware Requirements

Processors: Intel Core i3

Processor Speed: 1.9GHz

RAM: 4GB

Storage:500GB

4.1.2 Software Requirements

Operating System:Windows/Linux

4.2 TECHNOLOGY REQUIREMENT

- **FRONTEND :-** HTML, CSS, JAVASCRIPT, REACT JS
- **BACKEND :-** DJANGO, DJANGO REST FRAMEWORK
- **DATABASE :-** MYSQL
- **MACHINE LEARNING**

Chapter 5

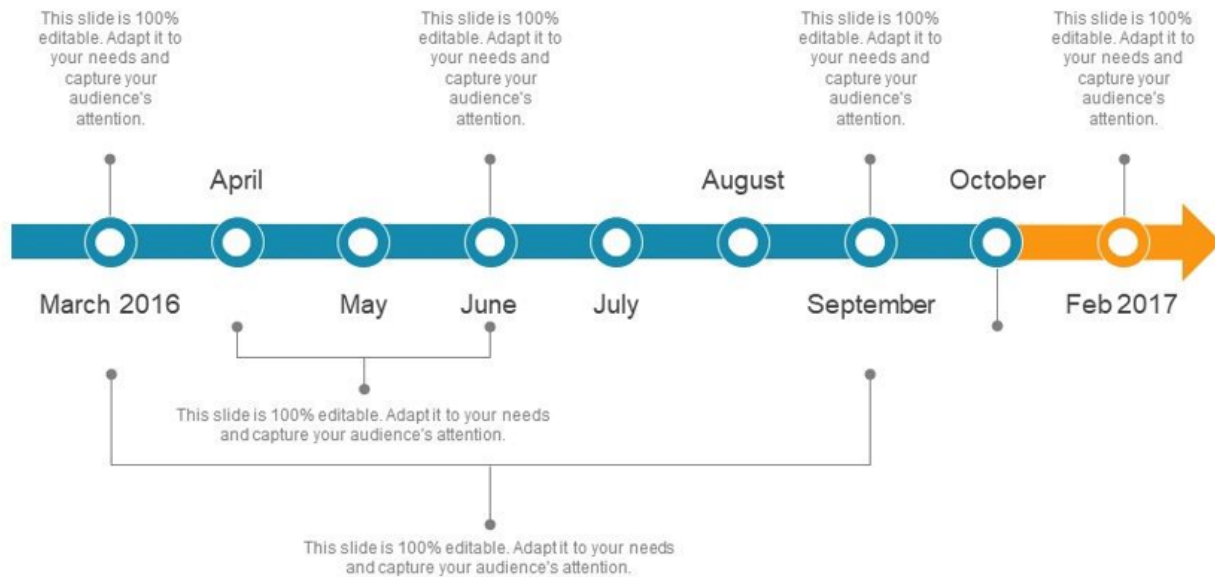
PROJECT ORGANISATION & TIMELINE

5.1 Work Breakdown

The project development team have each been assigned responsibilities. At certain phases of development, the clear demarcation of responsibilities may disappear, if necessary, to keep the project development up to speed with the decided project schedule.

1. Member 1
 - Database
 - Backend
2. Member 2
 - Literature Survey
 - Frontend
3. Member 3
 - Frontend
 - Database

5.2 Timeline



Implementation

```
from django.shortcuts import render
from django.db.models import Q
from Notes import models

# Create your views here.

# notes home page view
def notes_home(request):
    return render(request, 'Notes/notes_home.html')

# views for branch selection
def notes_branch(request, sem):
    return render(request, 'Notes/notes_branch.html', {'sem': sem})

# views for presenting list of notes
def notes_list(request, sem, subject, branch = None):
    # for searching :-- function will be implemented in future
    if request.method == 'POST':
        return render(request, 'Notes/subject_list.html')

    if (sem == 1):
        module_list = models.Semester1Subject.objects.filter(subject__contains
=subject).order_by('module')
        for module in module_list:
            teacher = module.teacher
            break
    elif (sem == 2):
        module_list = models.Semester2Subject.objects.filter(subject__contains
=subject).order_by('module')
        for module in module_list:
            teacher = module.teacher
            break

    elif (sem == 3):
        module_list = models.Semester3Subject.objects.filter(subject__contains
=subject).order_by('module')
        for module in module_list:
            teacher = module.teacher
            break
```

```
elif (sem == 4):
    module_list = models.Semester4Subject.objects.filter(subject__contains
=subject).order_by('module')
    for module in module_list:
        teacher = module.teacher
        break

elif (sem == 5):
    module_list = models.Semester5Subject.objects.filter(subject__contains
=subject).order_by('module')
    for module in module_list:
        teacher = module.teacher
        break

elif (sem == 6):
    module_list = models.Semester6Subject.objects.filter(subject__contains
=subject).order_by('module')
    for module in module_list:
        teacher = module.teacher
        break

elif (sem == 7):
    module_list = models.Semester7Subject.objects.filter(subject__contains
=subject).order_by('module')
    for module in module_list:
        teacher = module.teacher
        break

elif (sem == 8):
    module_list = models.Semester8Subject.objects.filter(subject__contains
=subject).order_by('module')
    for module in module_list:
        teacher = module.teacher
        break

return
render(request,'Notes/notes_list.html',{'module_list':module_list,'subject':subject,'teacher':teacher
})

# views for presenting list of subject
def subject_list(request,sem,branch = None):
    # for searching :-- function will be implemented in future
    if request.method == 'POST':
        return render(request,'Notes/subject_list.html')
```



```
if (sem == 1):
    subject_list = models.Semester1Subject.objects.filter(semester__exact = sem)
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
        subject_set.add(subject)

elif (sem == 2):
    subject_list = models.Semester2Subject.objects.filter(semester__exact = sem)
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
        subject_set.add(subject)

elif (sem == 3):
    branch = models.NotesBranch.objects.filter(branch__icontains = branch)
    subject_list = models.Semester3Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
        subject_set.add(subject)

elif (sem == 4):
    branch = models.NotesBranch.objects.filter(branch__icontains = branch)
    subject_list = models.Semester4Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
        subject_set.add(subject)

elif (sem == 5):
    branch = models.NotesBranch.objects.filter(branch__icontains = branch)
    subject_list = models.Semester5Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
        subject_set.add(subject)

elif (sem == 6):
    branch = models.NotesBranch.objects.filter(branch__icontains = branch)
    subject_list = models.Semester6Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
    subject_set = set()
    for subject in subject_list:
        subject = subject.subject.upper()
```

```

        subject_set.add(subject)

    elif (sem == 7):
        branch = models.NotesBranch.objects.filter(branch__icontains = branch)
        subject_list = models.Semester7Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
        subject_set = set()
        for subject in subject_list:
            subject = subject.subject.upper()
            subject_set.add(subject)

    elif (sem == 8):
        branch = models.NotesBranch.objects.filter(branch__icontains = branch)
        subject_list = models.Semester8Subject.objects.filter(Q(semester__exact =
sem),Q(branch__exact = branch[0]))
        subject_set = set()
        for subject in subject_list:
            subject = subject.subject.upper()
            subject_set.add(subject)

    return render(request,'Notes/subject_list.html',{'subject_list':subject_set,'sem':sem})

```

```

from django.contrib import admin
# from Notes.models import
NotesSemester,NotesBranch,NotesModule,Semester1Subject,Semester2Subject
from Notes import models

```

```

# Register your models here.

```

```

# admin for notes_semester modle
class NotesSemesterAdmin(admin.ModelAdmin):
    list_display = ['semester']

```

```

admin.site.register(models.NotesSemester,NotesSemesterAdmin)

```

```

# admin for notes_branch modle
class NotesBranchAdmin(admin.ModelAdmin):
    list_display = ['branch']

```

```

admin.site.register(models.NotesBranch,NotesBranchAdmin)

```

```

# admin for notes_module modle
class NotesModuleAdmin(admin.ModelAdmin):
    list_display = ['module']

```

```
admin.site.register(models.NotesModule,NotesModuleAdmin)

# admin for semester_1_subject modle
class Semester1SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','module','teacher','file']

admin.site.register(models.Semester1Subject,Semester1SubjectAdmin)

# admin for semester_2_subject modle
class Semester2SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','module','teacher','file']

admin.site.register(models.Semester2Subject,Semester2SubjectAdmin)

# admin for semester_3_subject modle
class Semester3SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','branch','module','teacher','file']

admin.site.register(models.Semester3Subject,Semester3SubjectAdmin)

# admin for semester_4_subject modle
class Semester4SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','branch','module','teacher','file']

admin.site.register(models.Semester4Subject,Semester4SubjectAdmin)

# admin for semester_5_subject modle
class Semester5SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','branch','module','teacher','file']

admin.site.register(models.Semester5Subject,Semester5SubjectAdmin)

# admin for semester_6_subject modle
class Semester6SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','branch','module','teacher','file']

admin.site.register(models.Semester6Subject,Semester6SubjectAdmin)

# admin for semester_7_subject modle
class Semester7SubjectAdmin(admin.ModelAdmin):
    list_display = ['subject','semester','branch','module','teacher','file']
```

```
admin.site.register(models.Semester7Subject,Semester7SubjectAdmin)
```

```
# admin for semester_8_subject modle
```

```
class Semester8SubjectAdmin(admin.ModelAdmin):
```

```
    list_display = ['subject','semester','branch','module','teacher','file']
```

```
admin.site.register(models.Semester8Subject,Semester8SubjectAdmin)
```

```
from django.db import models
```

```
# Create your models here.
```

```
# model for semester
```

```
class NotesSemester(models.Model):
```

```
    semester = models.PositiveIntegerField()
```

```
    def __str__(self):
```

```
        return str(self.semester)
```

```
# model for branch
```

```
class NotesBranch(models.Model):
```

```
    branch = models.CharField(max_length = 20)
```

```
    def __str__(self):
```

```
        return str(self.branch)
```

```
# model for module
```

```
class NotesModule(models.Model):
```

```
    module = models.PositiveIntegerField()
```

```
    def __str__(self):
```

```
        return str(self.module)
```

```
# model for 1st semester subject
```

```
class Semester1Subject(models.Model):
```

```
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
```

```
    subject = models.CharField(max_length = 30)
```

```
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
```

```
    teacher = models.CharField(max_length = 30)
```

```
    file = models.FileField(upload_to='Semester_1_Notes')
```

```
# model for 2nd semester subject
class Semester2Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_2_Notes')
```

```
# model for 3rd semester subject
class Semester3Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_3_Notes')
```

```
# model for 4rd semester subject
class Semester4Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_4_Notes')
```

```
# model for 5rd semester subject
class Semester5Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_5_Notes')
```

```
# model for 6rd semester subject
class Semester6Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_6_Notes')
```

```
# model for 7rd semester subject
```

```

class Semester7Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_7_Notes')

# model for 8rd semester subject
class Semester8Subject(models.Model):
    semester = models.ForeignKey(NotesSemester,on_delete=models.CASCADE)
    branch = models.ForeignKey(NotesBranch,on_delete=models.CASCADE)
    subject = models.CharField(max_length = 30)
    module = models.ForeignKey(NotesModule,on_delete=models.CASCADE)
    teacher = models.CharField(max_length = 30)
    file = models.FileField(upload_to='Semester_8_Notes')

{% extends "Book/base.html" %}

{% block home %} <a class="nav-link" href="/Book/after_login_home"><button type="button"
class="btn btn-outline-success">Home <span class="sr-only">(current)</span></button></a>
{% endblock %}
{% block logout %} <a class="nav-link" href="/accounts/logout"><button type="button"
class="btn btn-outline-success">Logout</button></a> {% endblock %}

{% block dropdown %}

<a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-toggle="dropdown" aria-haspopup="true" aria-expanded="false" style="border-left:red
solid 2px;border-right:red solid 2px;border-radius:50%;">
  <b>{{login_user|upper}} </b>
</a>
<div class="dropdown-menu" aria-labelledby="navbarDropdown">
  <a class="dropdown-item" href="/Book/uploaded_book">Books</a>
  <div class="dropdown-divider"></div>
  <a class="dropdown-item" href="/accounts/logout">Logout</a>
</div>

{% endblock %}

{% block head %}
<style>
  body{
    font-style:italic;
  }
</style>

```

```
{% endblock %}
```

```
{% block body %}
```

```
<br><br><br>
```

```
<div class="container my-5" style="border-left:solid 7px red;border-right:solid 7px  
red;border-radius:10%;"><br>
```

```
<h2>Add your unused Book to help others</h2><hr>
```

```
<form method="post">
```

```
<div class="form-group row">
```

```
<label for="bname" class="col-sm-2 col-form-label">Book Name</label>
```

```
<div class="col-sm-10">
```

```
<input type="text" class="form-control" id="bname" placeholder="Book Name"  
name="bname" required>
```

```
</div>
```

```
</div>
```

```
<div class="form-group row">
```

```
<label for="bsemester" class="col-sm-2 col-form-label">Semester</label>
```

```
<div class="col-sm-10">
```

```
<input type="text" class="form-control" id="bsemester" placeholder="Semester"  
name="bsemester" required>
```

```
</div>
```

```
{% if flag_semester %}
```

```
<li style="color:red;"> {{msg|lower}} </li>
```

```
{% endif %}
```

```
</div>
```

```
<div class="form-group row">
```

```
<label for="bauthor" class="col-sm-2 col-form-label">Book Author</label>
```

```
<div class="col-sm-10">
```

```
<input type="text" class="form-control" id="bauthor" placeholder="Book Author"  
name="bauthor" required>
```

```
</div>
```

```
</div>
```

```
<div class="form-group row">
```

```
<label for="bbranch" class="col-sm-2 col-form-label">Branch</label>
```

```
<div class="col-sm-10">
```

```
<input type="text" class="form-control" id="bbranch" placeholder="Branch"  
name="bbranch" required>
```

```
</div>
```

```
{% if flag_branch %}
```

```
<li style="color:red;"> {{msg|lower}} </li>
```

```
{% endif %}
```

```
</div>
```

Title

```
{% csrf_token %}
<center><button type="submit" class="btn btn-success" id="add_book">Add
Book</button></center>

</form>

<script type="text/javascript">
$("#add_book").on('dblclick',function(){
    alert('If you filled all details then your details is submitted')
})

</script>

{% endblock %}

<!DOCTYPE html>
{% extends "Book/base.html" %}
{% load staticfiles %}

{% block head %}
<style>
img{
    height:200px;

}
h5,span{
    color:white;
}
</style>

{% endblock %}

{% block logout %} <a class="nav-link" href="/accounts/logout"><button type="button"
class="btn btn-outline-success">Logout</button></a> {% endblock %}

{% block home %} <a class="nav-link" href="/Book/after_login_home"><button type="button"
class="btn btn-outline-success">Home <span class="sr-only">(current)</span></button></a>
{% endblock %}

{% block dropdown %}

<a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-toggle="dropdown" aria-haspopup="true" aria-expanded="false" style="border-left:red
```



```

solid 2px;border-right:red solid 2px;border-radius:50%;">
  <b>{{login_user|upper}}</b>
</a>
<div class="dropdown-menu" aria-labelledby="navbarDropdown">
  <a class="dropdown-item" href="/Book/uploaded_book">Books</a>
  <div class="dropdown-divider"></div>
  <a class="dropdown-item" href="/accounts/logout">Logout</a>
</div>

{% endblock %}

{% block search %}

  <form class="form-inline my-2 my-lg-0" method="post">
    <input class="form-control mr-sm-2" type="search" placeholder="book_name,semester"
name="search" aria-label="Search">
    <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
    {% csrf_token %}
  </form>

{% endblock %}

{% block body %}

<div class="row my-2 jumbotron" style="background-color:rgba(235, 254, 255,0);">
  {% if books %}
  {% for book in books %}

    <div class="col-sm mx-2 my-3">
      <div class="card" style="width: 18rem;border-radius:50%;">
        {% if book.semester == 1 %}
        
        {% elif book.semester == 2 %}
        
        {% elif book.semester == 3 %}
        
        {% elif book.semester == 4 %}
        
        {% elif book.semester == 5 %}
        
        {% elif book.semester == 6 %}
        
        {% elif book.semester == 7 %}
        
        {% elif book.semester == 8 %}
        
        {% endif %}

```

```

<div class="card-body">
  <h5 class="card-title">{{book.bname|upper}}</h5>
  <p class="card-text">AUTHOR : <span>{{book.bauthor|upper}}</span></p>
  <p class="card-text">SEMESTER : <span>{{book.semester}}</span></p>
  <p class="card-text">BRANCH : <span>{{book.branch}}</span></p>
  <a href="/Book/borrow/{{book.id}}"><button type="button" class="btn
btn-warning">Borrow</button></a>
</div>
</div>
</div>

{% endfor %}
{% else %}
<h1 class="container jumbotron">No Books Are Available...</h1>
{% endif %}

</div><br><br>

{% endblock %}

{% extends "Book/base.html" %}
{% load staticfiles %}

{% block logout %} <a class="nav-link" href="/accounts/logout"><button type="button"
class="btn btn-outline-success">Logout</button></a> {% endblock %}

{% block home %} <a class="nav-link" href="/Book/after_login_home"><button type="button"
class="btn btn-outline-success">Home <span class="sr-only">(current)</span></button></a>
{% endblock %}

{% block dropdown %}

<a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-toggle="dropdown" aria-haspopup="true" aria-expanded="false" style="border-left:red
solid 2px;border-right:red solid 2px;border-radius:50%;">
  <b>{{login_user|upper}}</b>
</a>
<div class="dropdown-menu" aria-labelledby="navbarDropdown">
  <a class="dropdown-item" href="/Book/uploaded_book">Books</a>
  <div class="dropdown-divider"></div>
  <a class="dropdown-item" href="/accounts/logout">Logout</a>
</div>

{% endblock %}

{% block head %}

```

```
<style>  
    img{  
        height:300px;  
        width:300px;  
        padding:60px;  
    }  
  
</style>  
  
{% endblock %}  
  
{% block body %}  
<br>  
  
<div class="jumbotron mx-5" style="background-color:rgba(0,0,0,0);">  
  
<div class="row my-4">  
  
<a href="/Book/after_login_book_list/{ {sem} }/cse">  
    <div class="card" style="width: 26rem;border-radius:50%;">  
          
    </div>  
</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
<a href="/Book/after_login_book_list/{ {sem} }/ise">  
    <div class="card" style="width: 26rem;border-radius:50%;">  
          
    </div>  
</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
<a href="/Book/after_login_book_list/{ {sem} }/eee">  
    <div class="card" style="width: 26rem;border-radius:50%;">  
          
    </div>  
</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
</div>  
  
<div class="row my-4">  
<a href="/Book/after_login_book_list/{ {sem} }/ece">  
    <div class="card" style="width: 26rem;border-radius:50%;">  
          
    </div>  
</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
  
<a href="/Book/after_login_book_list/{ {sem} }/me">  
    <div class="card" style="width: 26rem;border-radius:50%;">  
          
    </div>
```



```

<div class="row my-4">
  <div class=" col-md-6 col-lg-3">
    <a href="/Book/after_login_book_list/1">
      <div class="col-sm mx-5">
        <div class="card" style="width: 18rem; border-radius:50%;">
          
          <div class="card-body">
            <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
I</h3></button> -->
          </div>
        </div>
      </div>
    </a>
  </div>

  <div class=" col-md-6 col-lg-3">
    <a href="/Book/after_login_book_list/2">
      <div class="col-sm">
        <div class="card" style="width: 18rem; border-radius:50%;">
          
          <div class="card-body">
            <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
II</h3></button> -->
          </div>
        </div>
      </div>
    </a>
  </div>

  <div class=" col-md-6 col-lg-3">
    <a href="/Book/after_login_branch/3">
      <div class="col-sm">
        <div class="card" style="width: 18rem;border-radius:50%">
          
          <div class="card-body">
            <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
III</h3></button> -->
          </div>
        </div>
      </div>
    </a>
  </div>

  <div class=" col-md-6 col-lg-3">
    <a href="/Book/after_login_branch/4">
      <div class="col-sm">
        <div class="card" style="width: 18rem;border-radius:50%;">
          
          <div class="card-body">
            <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER

```

```

IV</h3></button> -->
    </div>
    </div>
    </div>
    </a>
    </div>
    </div>

<div class="row my-4">

    <div class=" col-md-6 col-lg-3">
        <a href="/Book/after_login_branch/5">
            <div class="col-sm mx-5">
                <div class="card" style="width: 18rem;border-radius:50%;">
                    
                    <div class="card-body">
                        <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
V</h3></button> -->
                        </div>
                        </div>
                        </div>
                    </a>
                </div>
                <div class=" col-md-6 col-lg-3">
                    <a href="/Book/after_login_branch/6">
                        <div class="col-sm">
                            <div class="card" style="width: 18rem;border-radius:50%;">
                                
                                <div class="card-body">
                                    <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
VI</h3></button> -->
                                    </div>
                                    </div>
                                    </div>
                                </a>
                            </div>
                            <div class=" col-md-6 col-lg-3">
                                <a href="/Book/after_login_branch/7">
                                    <div class="col-sm">
                                        <div class="card" style="width: 18rem;border-radius:50%;">
                                            
                                            <div class="card-body">
                                                <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
VII</h3></button> -->
                                                </div>
                                                </div>
                                                </div>
                                            </a>
                                        </div>

```

```

<div class=" col-md-6 col-lg-3">
  <a href="/Book/after_login_branch/8">
    <div class="col-sm">
      <div class="card" style="width: 18rem;border-radius:50%;">
        
        <div class="card-body">
          <!-- <button class="btn btn-outline-secondary"><h3 style="color:black;">SEMESTER
VIII</h3></button> -->
        </div>
      </div>
    </div>
  </div>
</a>
</div>
</div>
</div>

{% endblock %}

```

```

<!DOCTYPE html>
{% load staticfiles %}
<html lang="en" dir="ltr">
<head>
  <meta charset="utf-8">

  <!-- link of bootstrapcdn 4.3 -->
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT
2MZw1T" crossorigin="anonymous">
  <link rel="stylesheet" href="{% static 'css/base.css' %}">

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi
6jizo" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dI
HNDz0W1" crossorigin="anonymous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIlly6OrQ6VrjIEaFf/nJGzIxFDs4x0xIM+B07j
RM" crossorigin="anonymous"></script>

  {% block head %} {% endblock %}

```

```

<style>
* {
  margin: 0;
  padding: 0;

```

Title

```

    box-sizing: border-box;
    font-family: sans-serif;
}

*::-webkit-scrollbar{
    width: 0px;
}
.card{
    background-color:red;
    font-style: italic;
}
button{
    font-style: italic;
}

</style>

<title></title>
</head>
<body style="background-image:
url('https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/images/book-quotes-1531945007.jpg?crop=1.00xw:0.753xh;0,0.247xh&resize=980:*');background-repeat:
no-repeat;background-size:cover;" >

<!-- navbar -->
<nav class="navbar navbar-expand-lg navbar-light fixed-top" style="background:white">
    <a class="navbar-brand" href="/"><button type="button" class="btn btn-danger"
style="border:red 8px solid;border-radius:50%;">CMRIT BOOK BANK</button></a>
    <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav mr-auto">
            <li class="nav-item active">
                {% block home %} {% endblock %}
                <!-- <a class="nav-link" href="/Book">Home <span
class="sr-only">(current)</span></a> -->
            </li>
            <li class="nav-item active">
                <a class="nav-link" href="/Notes"><button type="button" class="btn
btn-outline-success">Notes</button></a>
            </li>

            <li class="nav-item dropdown">
                {% block dropdown %} {% endblock %}

```



```

</li>

<li class="nav-item">
  {% block uploaded_book %} {% endblock %}
  <!-- <a class="nav-link" href="#">About Us</a> -->
</li>

</ul>
{% block search %} {% endblock %}

<ul class="navbar-nav mx-2">

</li>
<li class="nav-item my-2">
  <a href="/Book/add_book"><button type="button" class="btn btn-outline-primary">Add
Book</button></a>
</li>

<li class="nav-item">
  {% block login %} {% endblock %}
  <!-- <a class="nav-link" href="/accounts/login">Login</a> -->
</li>
<li class="nav-item">
  {% block sign_up %} {% endblock %}
  <!-- <a class="nav-link" href="/Book/sign_up">Sign Up</a> -->
</li>
<li class="nav-item">
  {% block logout %} {% endblock %}
  <!-- <a class="nav-link" href="/accounts/logout">Logout</a> -->

</ul>
</div>
</nav>

<!-- body block for their child -->
<div class="my-4">
  {% block body %}
  {% endblock %}

</div>
</body>
</html>

<!DOCTYPE html>
{% extends 'Book/base.html' %}
{% load staticfiles %}

```

```
{% block logout %} <a class="nav-link" href="/accounts/logout"><button type="button" class="btn btn-outline-success">Logout</button></a> {% endblock %}
{% block home %} <a class="nav-link" href="/Book/after_login_home"><button type="button" class="btn btn-outline-success">Home <span class="sr-only">(current)</span></button></a> {% endblock %}
```

```
{% block dropdown %}
```

```
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false" style="border-left:red solid 2px;border-right:red solid 2px;border-radius:50%;">
  <b>{{login_user|upper}}</b>
</a>
<div class="dropdown-menu" aria-labelledby="navbarDropdown">
  <a class="dropdown-item" href="/Book/uploaded_book">Books</a>
  <div class="dropdown-divider"></div>
  <a class="dropdown-item" href="/accounts/logout">Logout</a>
</div>
```

```
{% endblock %}
```

```
{% block head %}
```

```
<style>
.left{
  width:30%;
  float: left;
}
.right{
  width:50%;
  float:right;
  margin-left:20px;
}
h5,span{
  color:white;
}
body{
  font-style: italic;
}
```

```
</style>
```

```
{% endblock %}
```

```
{% block body %}
```

```
<hr><hr><hr><br>
```

```
<div class="container my-3">
```

```
<div class="left mx-4">
```

```
<div class="card my-5" style="width: 18rem;border-radius:50%;">
```

```

    {% if book.semester == 1 %}
    
    {% elif book.semester == 2 %}
    
    {% elif book.semester == 3 %}
    
    {% elif book.semester == 4 %}
    
    {% elif book.semester == 5 %}
    
    {% elif book.semester == 6 %}
    
    {% elif book.semester == 7 %}
    
    {% elif book.semester == 8 %}
    
    {% endif %}
    <div class="card-body">
        <h5 class="card-title">{{book.bname|upper}}</h5>
        <p class="card-text">AUTHOR : <span>{{book.bauthor|upper}}</span></p>
        <p class="card-text">SEMESTER : <span>{{book.semester}}</span></p>
        <p class="card-text">BRANCH : <span>{{book.branch}}</span></p>
    </div>
</div>

</div>

<div class="right">
    <h4>Contact Details Of Book Holder</h4><hr><br>
    <button type="button" class="btn btn-outline-success btn-lg
btn-block">{{book.buser.first_name|upper}}</button>
    <button type="button" class="btn btn-outline-success btn-lg
btn-block">{{user.mobile_no|upper}}</button>
    <button type="button" class="btn btn-outline-success btn-lg
btn-block">{{user.address1|upper}}</button>
    <button type="button" class="btn btn-outline-success btn-lg
btn-block">{{user.address2|upper}}</button>

    <br><h5><b>Contact <span style="color:red">{{book.buser.first_name|upper}}</span> for more
details...</b></h5>
    <h5><b>And if <span style="color:red">{{book.buser.first_name|upper}}</span> agree to give, then
click on below button</b></h5><br>

    <a href="/Book/book_taken/{{book.id}}"><button type="submit" class="btn btn-warning btn-lg
btn-block"><span style="color:red">{{book.buser.first_name|upper}}</span> Agree To Give
Book??</button></a>

</div>
</div>

{% endblock %}

```

```

<!DOCTYPE html>
{% extends "Book/base.html" %}
{% load staticfiles %}

{% block head %}
<style>
  img{
    height:200px;
  }
  h5,span{
    color:white;
  }

</style>

{% endblock %}

{% block login %} <a class="nav-link" href="/accounts/login"><button type="button" class="btn
btn-outline-success">Login</button></a> {% endblock %}

{% block sign_up %} <a class="nav-link" href="/Book/sign_up"><button type="button" class="btn
btn-outline-success">Sign Up</button></a> {% endblock %}

{% block home %} <a class="nav-link" href="/Book"><button type="button" class="btn
btn-outline-success">Home <span class="sr-only">(current)</span></button></a> {% endblock %}

{% block search %}

<form class="form-inline my-2 my-lg-0" method="post">
  <input class="form-control mr-sm-2" type="search" placeholder="book_name,semester" name="search"
aria-label="Search">
  <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
  {% csrf_token %}
</form>

{% endblock %}

{% block body %}

<div class="row my-2 jumbotron" style="background-color:rgba(235, 254, 255,0);">
  {% if books %}
  {% for book in books %}

<div class="col-sm mx-2 my-3">
  <div class="card" style="width: 18rem;border-radius:50%">
    {% if book.semester == 1 %}
    
    {% elif book.semester == 2 %}
    
    {% elif book.semester == 3 %}
    
    {% elif book.semester == 4 %}
    
    {% elif book.semester == 5 %}
    
    {% elif book.semester == 6 %}
    
    {% elif book.semester == 7 %}
    
    {% elif book.semester == 8 %}
    
    {% endif %}
    <div class="card-body">
        <h5 class="card-title">{{book.bname|upper}}</h5>
        <p class="card-text">AUTHOR : <span>{{book.bauthor|upper}}</span></p>
        <p class="card-text">SEMESTER : <span>{{book.semester}}</span></p>
        <p class="card-text">BRANCH : <span>{{book.branch}}</span></p>
        <a href="/Book/borrow/{{book.id}}"><button type="button" class="btn
btn-warning">Borrow</button></a>
    </div>
</div>
</div>

{% endfor %}
{% else %}
<h1 class="container jumbotron">No Books Are Available...</h1>
{% endif %}

</div><br><br>

{% endblock %}

{% extends "Book/base.html" %}
{% load staticfiles %}

{% block head %}

<style>
img{
    height:300px;
    width:300px;
    padding:60px;
}

</style>

{% endblock %}

{% block login %} <a class="nav-link" href="/accounts/login"><button type="button" class="btn

```

```
{% block sign_up %} <a class="nav-link" href="/Book/sign_up"><button type="button" class="btn btn-outline-success">Sign Up</button></a> {% endblock %}
```

```
{% block home %} <a class="nav-link" href="/Book"><button type="button" class="btn btn-outline-success">Home <span class="sr-only">(current)</span></button></a> {% endblock %}
```

```
{% block body %}<br>
```

```
<div class="jumbotron mx-5" style="background-color:rgba(0,0,0,0);">
```

```
<div class="row my-4">
```

```
    <a href="/Book/book_list/{ {sem}} /cse">
```

```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
```

```
    <a href="/Book/book_list/{ {sem}} /ise">
```

```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
```

```
    <a href="/Book/book_list/{ {sem}} /eee">
```

```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
```

```
</div>
```

```
<div class="row my-4">
```

```
    <a href="/Book/book_list/{ {sem}} /ece">
```

```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&nbsp;&~
```

```
    <a href="/Book/book_list/{ {sem}} /me">
```

```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&~
```

```
    <a href="/Book/book_list/{ {sem}} /ce">
```

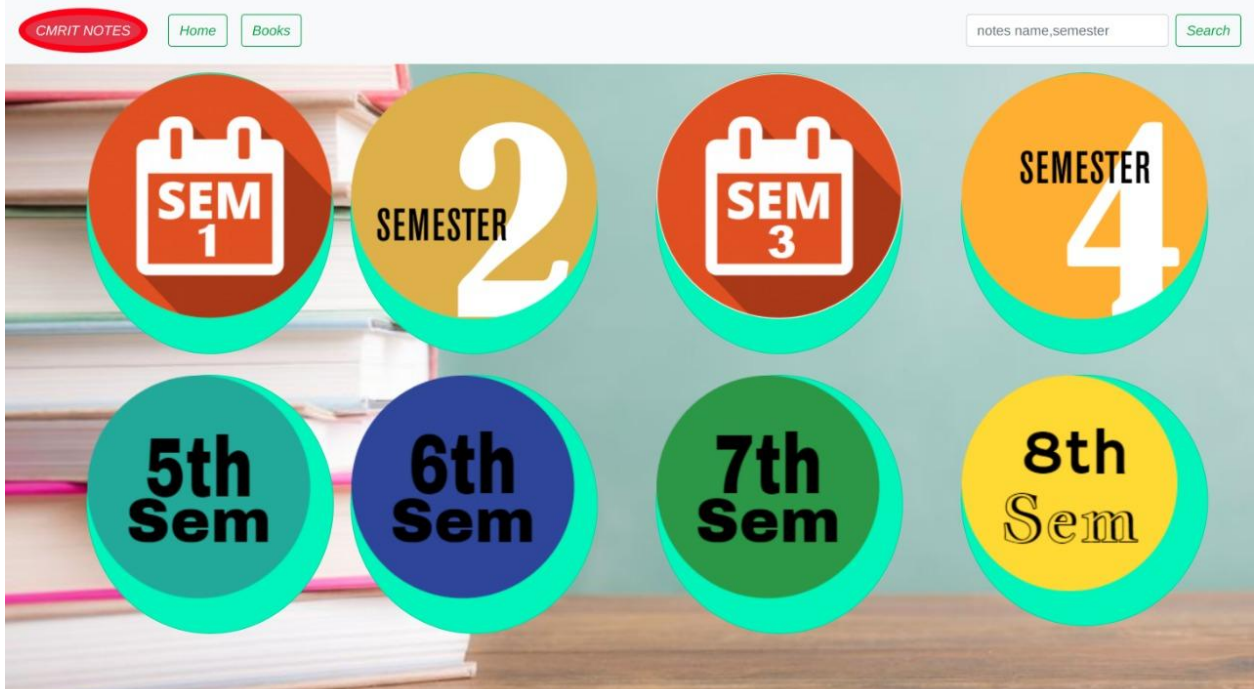
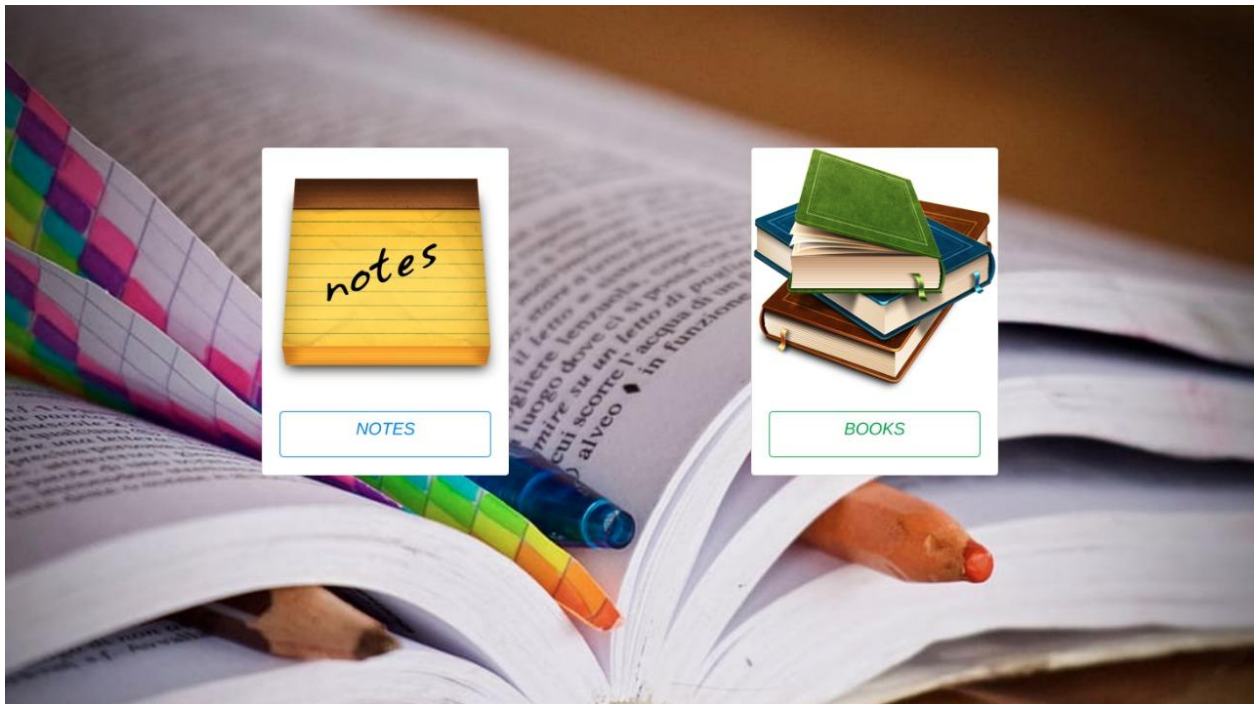
```
        <div class="card" style="width: 26rem;border-radius:50%;">
```

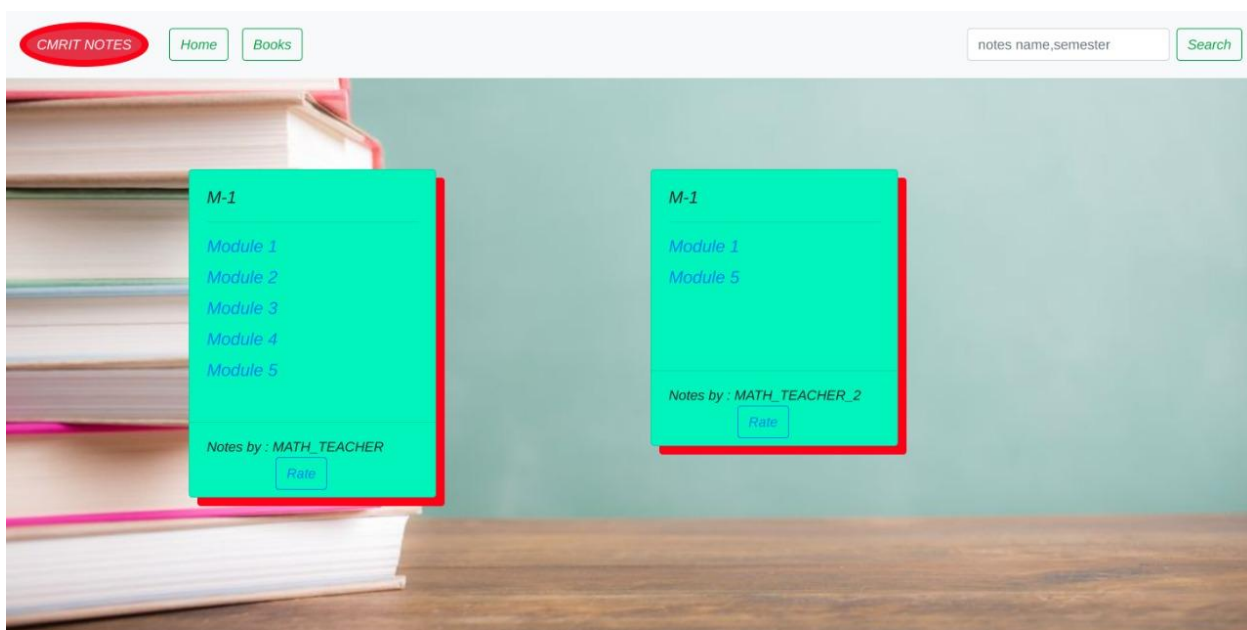
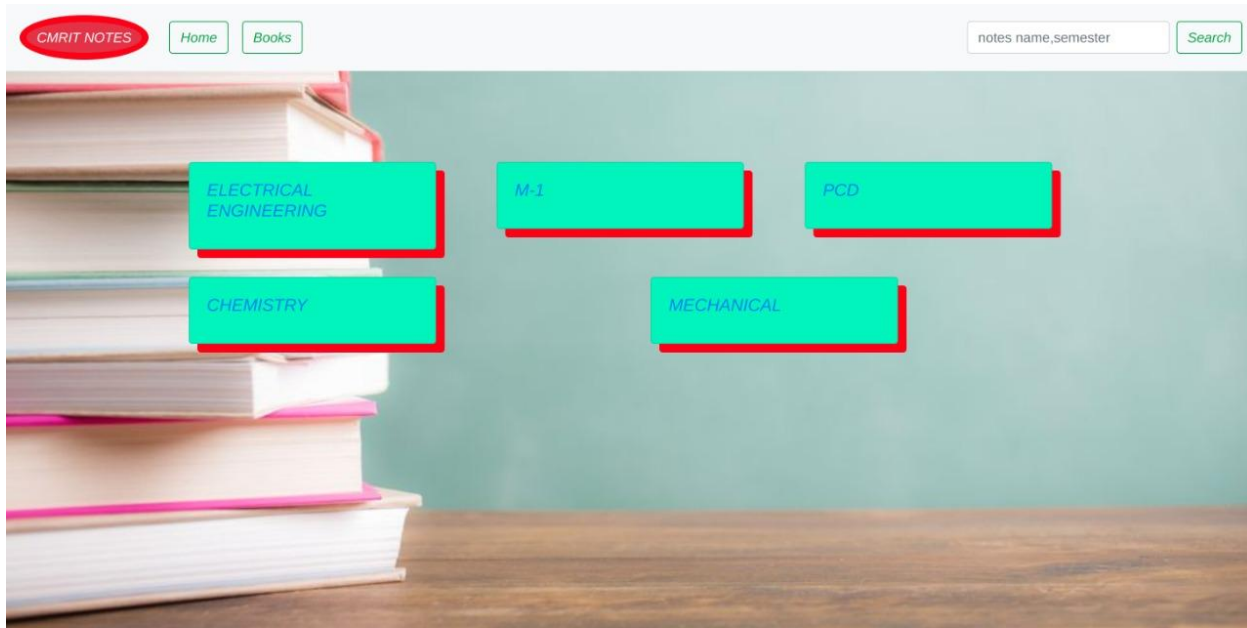
```
            
```

```
        </div>
```

```
    </a>&nbsp;&nbsp;&nbsp;&~
```

Screenshots





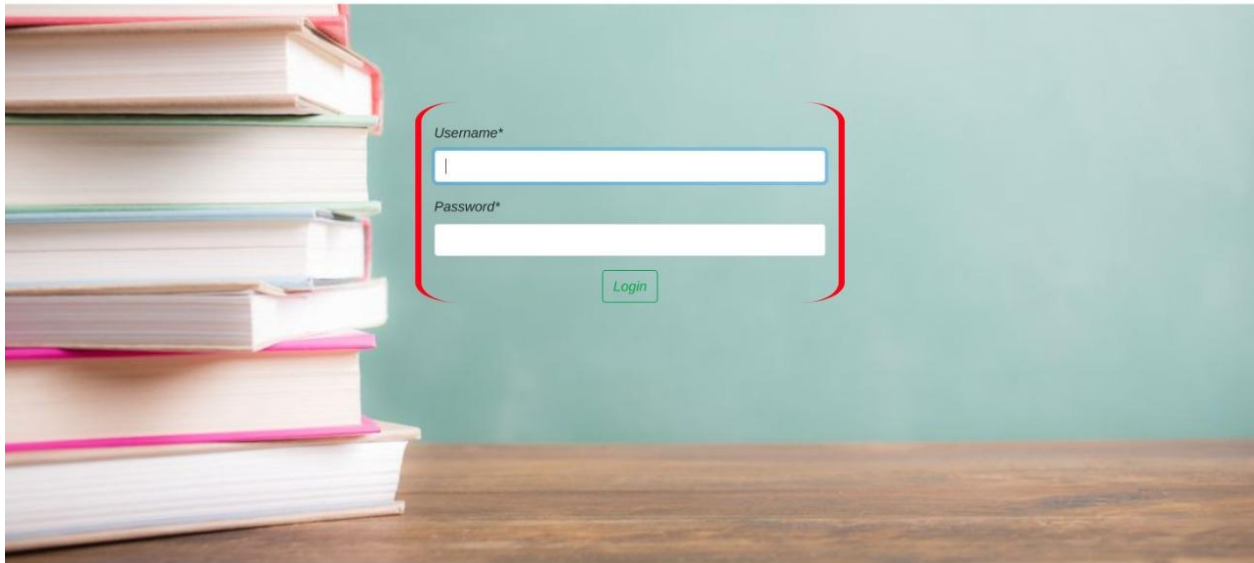
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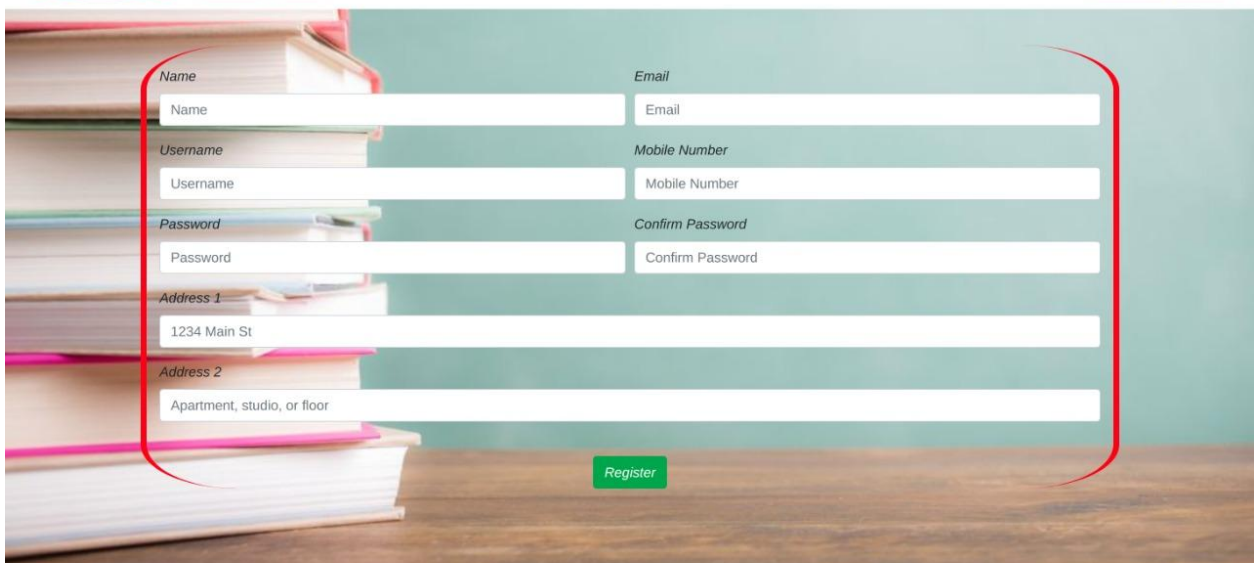
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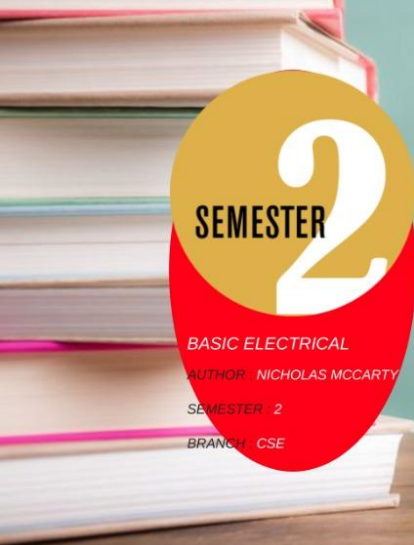
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Conclusion

To conclude, our project aimed at building and comparing models that are able to detect botnets in a real network traffic represented by Netflow datasets. After a strong analysis of the data and a lot of reviews of network security papers, relevant features were extracted. Their influence were then studied through a selection process but no feature was poor enough to be left aside for the training part.

The use of a bootstrap method to increase the amount of data has resulted in detecting more than 55% of the scenarios 5, 7 and 11. Only the scores of the scenarios 4 and 12 were difficult to improve

The possible improvement of the work presented here would be to try to modify the extracted features with different widths and strides for the time window and explore more hyperparameters for the difficult scenarios. Another idea would be to try to train and test several scenarios at the same time. Finally, unsupervised learning can be tested to detect the behavior of botnets without using the labels of the data.

References

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- [2] A. Nordrum. Popular Internet of Things Forecast of 50 Billion Devices by 2020 Is Outdated. 2016. url: <https://spectrum.ieee.org/tech-talk/telecom/internet/popular-internet-of-thingsforecast-of-50-billion-devices-by-2020-is-outdated> (visited on 22/12/2017) (cit. on p. 1).
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