

# SOFTWARE DEVELOPMENT DOCUMENT

## Industrial Training Report

On

## “E-LIBRARY”

*Submitted for the partial fulfillment of Bachelor of Engineering*

**Submitted by:**

**PALLAVI V R** (1SI16CS076)

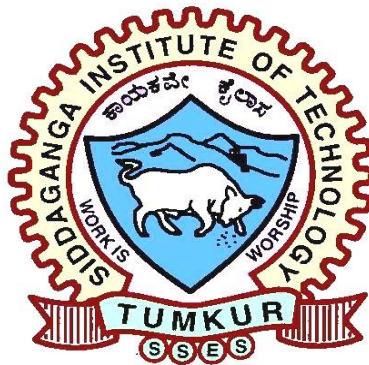
**S SAMEEKSHA** (1SI16CS088)

**SOUMYASRI** (1SI16CS106)

**MEDHA** (1SI16IS032)

**Under the Guidance of:**

**Mr. Venkatasubramanian**  
Training Faculty



**Department of Computer Science and Engineering**

**Siddaganga Institute of Technology, Tumakuru – 572103**

(An Autonomous Institution, Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)

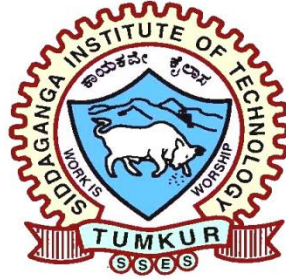
**2018 -2019**

# SOFTWARE DEVELOPMENT DOCUMENT

## SIDDAGANGA INSTITUTE OF TECHNOLOGY,TUMAKURU-3

(An Autonomous Institution, Affiliated to VTU, Belagavi& Recognized by AICTE, New Delhi)

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



### CERTIFICATE

This is to certify that that the Industrial Training Project entitled **“E-LIBRARY”** has been successfully carried out by **Pallavi V R(1SI16CS076)**, **S Sameeksha(1SI16CS088)**, **Soumyasri (1SI16CS106)** and **Medha(1SI16IS032)** of VI semester **Computer Science and Engineering, SIDDAGANGA INSTITUTE OF TECHNOLOGY** for the partial fulfillment of Bachelor of Engineering during the academic year 2018-2019.

**Signature of the Guide**  
**Mr. Venkatasubramanian**  
Training Faculty

**Signature of the Convener**  
**Mr. Deepak Singh**  
Co-Founder, Monkfox

**Signature of the HOD**  
**Dr. R. Sumathi**  
**Prof. and Head, Dept. of CSE**

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## ACKNOWLEDGEMENT

It's our pleasure to thank all the individuals who have directly or indirectly helped and motivated us in the fulfillment of completion of the project work.

We express our gratitude to our respected Director, **Dr. M. N. Channabasappa** for his constant support in fulfilling our endeavors.

We would also like to thank our respected Principal, **Dr. K. P. Shivananda** for providing us with various facilities for carrying out this project.

We are also thankful to **Dr. R. Sumathi**, Professor and Head, Department of Computer Science and Engineering for giving us all the freedom, inspiration and encouragement to carry out this project successfully.

We thank our project guide **Mr. Venkatasubramanian**. Training Faculty, for providing the critical support on every step of this project development. His guidance gave us the environment to enhance our knowledge, skills and to reach the pinnacle with sheer determination, dedication and hard work. Without his aspiring support this project would not have been implemented.

We thank our project coordinator **Mr. Deepak Singh**, Co-Founder, Monkfox for allowing us to take up this idea as our mini project.

**S Sameeksha**

**Pallavi V R**

**Soumyasri**

**Medha**

# SOFTWARE DEVELOPMENT DOCUMENT

## ABSTRACT

The main objective of E-Library is to help the college and students for reading books through online. Students can sign in or login if they already have an account. They can download the pdf available on the webpage. Admin can add the books to the Library and it will be reflected in Notifications in the homepage. All the user details are stored in the database.

Admin has all the details of the students and admin can delete the student, if student is completed his course. , he can login and enter the details of the left object. Admin, if purchased new book, he can add this object into database and inform to Students .

This web app will be very helpful to all the Students, without carrying book, they can read book. So that energy will be saved. Time will be saved.

# SOFTWARE DEVELOPMENT DOCUMENT

## INTRODUCTION

E-library app is implemented using Django-a popular web Framework used for developing applications.HTML is used for creating web pages and CSS describes the style of an html document and we used Sqlite3 as database.E-library app's main idea is to develop online web portal for searching books and pdf of books.

### **Motivation:**

- ✓ E-library is used to get pdf of books without coming to library.
- ✓ So that they can save time.
- ✓ Where ever they will be they can easily read book without carrying them.
- ✓ In our web-app students can check which ever books are there and they can read them.

### **Objective:**

- ✓ Making Students to read without carrying heavy books is the main objective of our project
- ✓ Making the system totally online.
- ✓ To save the time.

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## REQUIREMENTS

`dj-database-url` = 0.5.0  
`Django` = 2.2.2  
`django-widget-tweaks` =1.4.5  
`gunicorn` =19.9.0  
`psycpg2` =2.8.3  
`python-date-util` =2.8.0  
`pytz` =2019.1  
`setuptools` =41.0.1  
`six` =1.12.0  
`sqlparse` =0.3.0  
`whitenoise`= 4.1.2

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## FUNCTIONALITY

### Existing System:

- ✓ Before the internet, in the existing system the Student who wants to read books he has to go to library. Otherwise, they have to purchase the book which they need.
- ✓ That's why, they cannot read books where they were. And in olden days library they had to register by filling many hand-written forms.
- ✓ Time will be wasted.
- ✓ Heavy books must be carried to home and to the exam centre if they needed .

### Proposed Work:

- ✓ Now-a-days, we can use many web apps to make our work simpler. So our e-library app will provide features that can be used easily while sitting in home they can register easily, they will be given register id. Using that they can check the books.
- ✓ They can save their time.
- ✓ This software can manage and keep records of students and books.

# SOFTWARE DEVELOPMENT DOCUMENT

## SOURCE CODE

### models.py

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

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

### **forms.py**

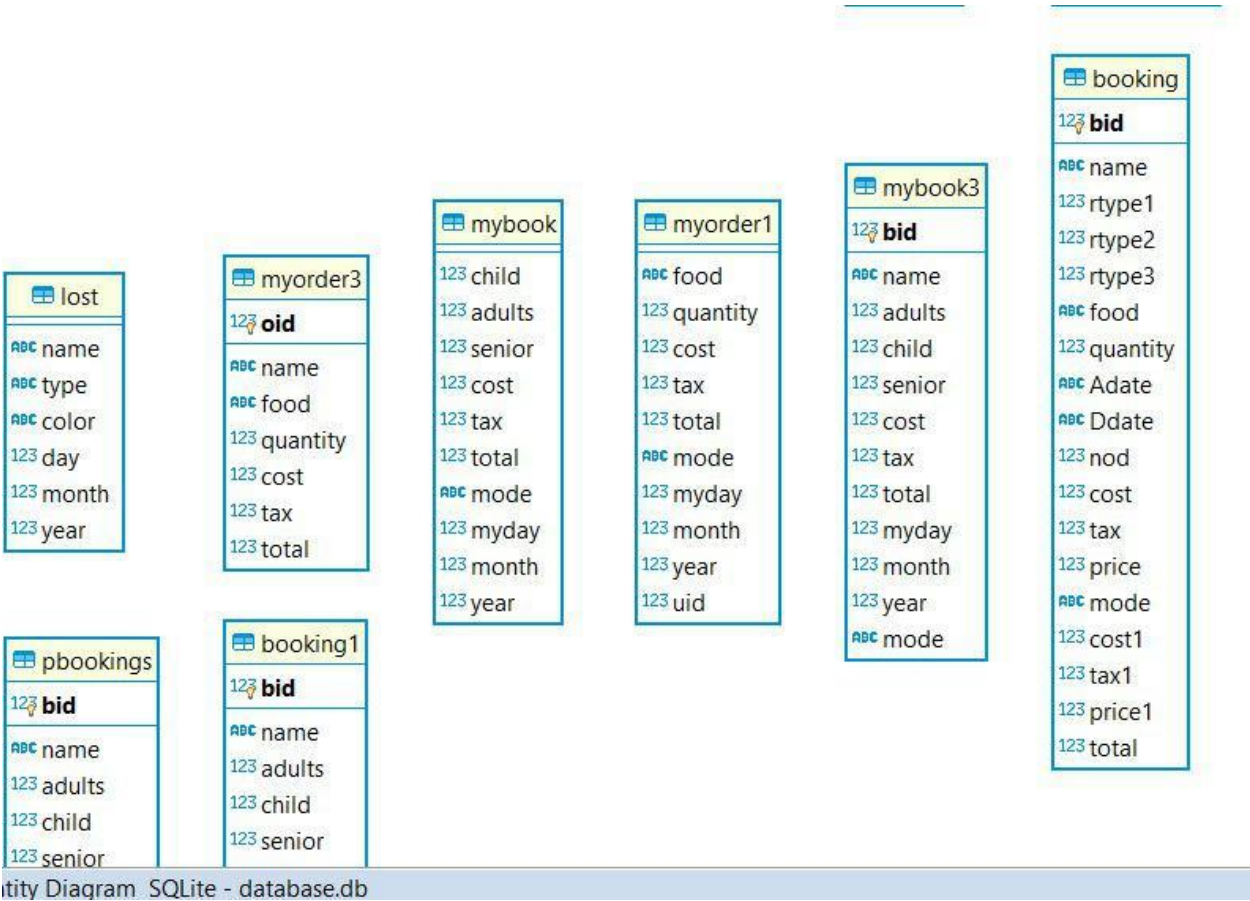
```
from django import forms
from django.contrib.auth.forms import UserCreationForm
from django.contrib.auth.models import User
```

```
class SignUpForm(UserCreationForm):
    email = forms.CharField(max_length=254,required=True,widget=forms.EmailInput())
    class Meta:
        model = User
        fields = ('username','email','password1','password2')
```



# SOFTWARE DEVELOPMENT DOCUMENT

## TABLES

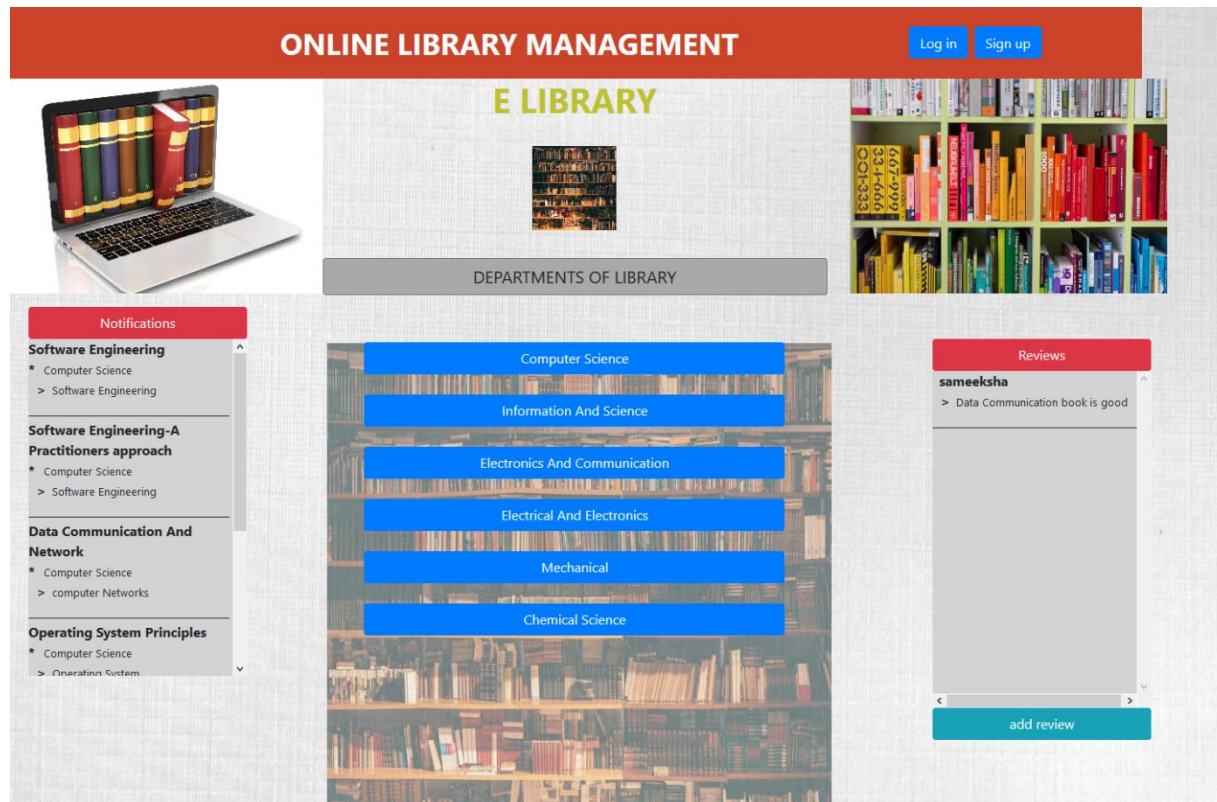


# SOFTWARE DEVELOPMENT DOCUMENT

## DEVELOPMENT METHODOLOGIES

Our Project consist of six modules Dashboard, Park, rooms, food, left anything, Signup, Login.

**Homepage Module:** Here, the people can see the departments available. And they can Login or Signin.



```
{% extends 'base.html' %}
{% load static %}
<html>
```

```
{% block breadcrumb %}
<li class="breadcrumb-items active">Departments</li>
{% endblock %}
```

```
{% block content %}
<head>
<h1 style="color:#bec22f;"><center><b>E LIBRARY</b></center></h1>
```

```
<style type="text/css">
#watermark0 {
color: #d0d0d0;
```

# SOFTWARE DEVELOPMENT DOCUMENT

```
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:0px;
top:0px;
}
#watermark {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:380px;
top:400px;
}
#watermark1 {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:-114px;
top:-30px;
}
#watermark2 {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
```

# SOFTWARE DEVELOPMENT DOCUMENT

```
z-index: -1;
left:890px;
top:-30px;
}
#watermark3 {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:-50px;
top:930px;
}
#watermark4 {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:835px;
top:930px;
}
#watermark5 {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:375px;
top:900px;
}
</style>
```

# SOFTWARE DEVELOPMENT DOCUMENT

```
</head><br>
<center>
<div>
<br><br>
</div>

<h1><a class="btn btn-secondary" style="width: 600px; font-size:20px;background-
color:darkgray">DEPARTMENTS OF LIBRARY</h1></center></a><br>
<body><center>
<div id="watermark0">

</div>
<div id="watermark">
<br><br>
</div>
<div id="watermark1">

</div>
<div id="watermark2">

</div>
<div id="watermark3">

</div>
<div id="watermark4">

</div>
<!--<div id="watermark5">

</div>-->

{% for dm in dept_names %}
<br><a href="{%url 'sub_departments' dm.id %}" class="btn btn-primary" style="width:
500px">{{ dm.d_name }}</a><br>
{% endfor %}

</center>
<div style="margin-top: -390px; margin-left: 25px">
<div style="color:white">
<a class="btn btn-danger" style="width: 260px;">Notifications</a><br>
</div>
<div id="" style="overflow-y: scroll; height: 400px; background: lightgray;width: 260px;">
{% for i in book_names %}
<a ><b>{{ i }}</b></a><br><b>*</b>

```

# SOFTWARE DEVELOPMENT DOCUMENT

```
<small style="text-muted d-block;padding-left: 0.5em"> {{ i.D_Id }}</small><br>
<a style="text-muted d-block;padding-left: 0.6em"> <b></b></a>
<small style="text-muted d-block;padding-left: 0.2em"> {{ i.Sub_Id }}</small><br>
<a >_____</a>
{% endfor %}
</div>

</div>

<div style="margin-top: -400px; margin-left: 1100px">
<div style="color: white">
<a class="btn btn-danger" style="width: 260px;">Reviews</a><br>
</div>
<div id="" style="overflow-y: scroll; height: 400px; background: lightgray;width: 260px;">
{% for i in rev %}

<a style="padding-left: 0.5em"><b> {{ i.reviewer_name }}</b></a><br>
<a style="text-muted d-block;padding-left: 0.6em"> <b></b></a>
<small style="text-muted d-block;padding-left: 0.2em"> {{ i.review_description }}</small><br>
<a >_____</a>
{% endfor %}
</div>
<a href="{%url 'reviews' %}" class="btn btn-info" style="width: 260px;color: white"> add
review</a>
</div>

</body>
{% endblock %}

</html>
```

**Login Page:** Using this module user will know the details of the games.

# SOFTWARE DEVELOPMENT DOCUMENT

## ONLINE LIBRARY MANAGEMENT

[Log in](#)[Sign up](#)

### Log in

Username:

Password:

[Log in](#)

[New Here? Sign up](#)

[Forgot your password?](#)

```
{% extends 'base.html' %}
```

```
{% block title %}
```

```
Log in to Your account
```

```
{% endblock %}
```

```
{% block content %}
```

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

```
<div class="row justify-content-center" >
```

```
<div class="col-lg-4 col-md-6 col-sm-8">
```

```
<div class="card">
```

```
<div class="card-body">
```

```
<h3 class="card-title"> Log in</h3>
```

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

```
{% csrf_token %}
```

```
{% include 'includes/form.html' %}
```

```
<button type="submit" class="btn btn-primary btn-block">Log in</button>
```

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

```
<div class="card-footer text-muted text-center">
```

```
New Here? <a href="{% url 'signup'
```

```
%}">Sign up</a>
```

```
</div>
```

```
</div>
```

```
<div class="text-center py-2">
```

```
<small> <a href="#" class="text-muted">Forgot your password?</a>
```

```
</small>
```

```
</div>
```

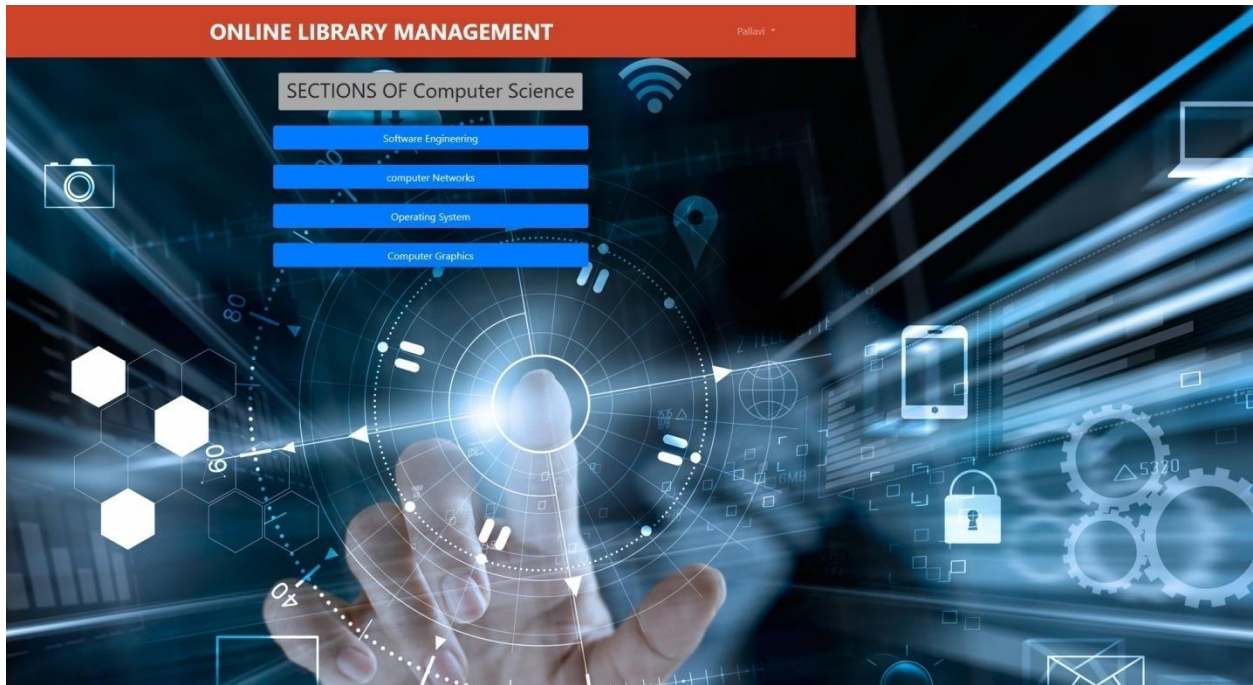
```
</div>
```

```
</div>
```

```
{% endblock %}
```

# SOFTWARE DEVELOPMENT DOCUMENT

## SubDepartments page:



```
{% extends 'base.html' %}
```

```
{% load static %}
```

```
{% block stylesheet %}
```

```
<link rel="stylesheet" href="{% static 'css/accounts.css' %}">
```

```
{% endblock %}
```

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

```
<div class="container" >
```

```
<h1 class="text-center logo my-4">
```

```
<a href="{% url 'home' %}">Library Management</a>
```

```
</h1>
```

```
<div class="row justify-content-center">
```

```
<div class="col-lg-8 col-md-10 col-sm-12">
```

```
<div class="card">
```

```
<div class="card-body">
```

```
<h3 class="card-title">Sign up</h3>
```

```
<form method="POST" novalidate>
```

```
{% csrf_token %}
```

```
{% include 'includes/form.html' %}
```

```
<button type="submit" class="btn btn-primary btn-block">Create an account</button>
```


```
</form>
```



# SOFTWARE DEVELOPMENT DOCUMENT

```
</div>
<div class="card-footer text-muted text-center">
Already have an account? <a href="{ %url 'login' % }">Log in</a>
</div>
</div>
</div>
</div>
</div>
{ % endblock % }
```

## Book :

| ONLINE LIBRARY MANAGEMENT |  |   |                    |   |
|---------------------------|--|---|--------------------|---|
| Book no.                  | Book name  | Book Details  | Author             | URL   |
| 1                         | Software Engineering<br>Dept name: Computer Science<br>Sub Dept: Software Engineering                          |  | Ian Somerville     | <a href="http://iips.icci.edu.iq/images/exam/Software-Engineering-9th-Edition-by-Ian-Sommerville.pdf">http://iips.icci.edu.iq/images/exam/Software-Engineering-9th-Edition-by-Ian-Sommerville.pdf</a>                   |
| 2                         | Software Engineering-A Practitioners approach<br>Dept name: Computer Science<br>Sub Dept: Software Engineering |  | Roger .G. pressman | <a href="http://dinus.ac.id/repository/docs/ajar/RPL-7th_ed_software_engineering_a_practitioners_approach_by_">http://dinus.ac.id/repository/docs/ajar/RPL-7th_ed_software_engineering_a_practitioners_approach_by_</a> |

```
{ % extends 'base.html' % }
{ % block breadcrumb % }
<li class="breadcrumb-items active">Book Details</li>
{ % endblock % }
```

```
<br><h2><b><center>Book Details</center></b></h2>
```

```
{ % block content % }
<style type="text/css">
#watermark {
color: #d0d0d0;
font-size: 200pt;
-webkit-transform: rotate(0deg);
-moz-transform: rotate(0deg);
```

# SOFTWARE DEVELOPMENT DOCUMENT

```
position: absolute;
width: 600px;
height: 600px;
margin: 0;
z-index: -1;
left:0px;
top:0px;
}
</style>
<div id="watermark">
<br><br>
</div>
<table class="table">
<thead class="thead-inverse">
<tr>
<th>Book no.</th>
<th>Book name</th>
<center><th>Book Details</th></center>
<th>Author</th>
<th>URL</th>
<!-- <th>Bid</th> -->
</tr>
</thead>
<tbody>
{% for bk in book_list %}
<tr>
<td class="align-middle"><center>{{ bk.id }}</center></td>
<td class="align-top">{{ bk.b_name }}<br>Dept name: {{ bk.D_Id.d_name }}<br>Sub Dept:
{{ bk.Sub_Id.sub_dept_name }}</td>
<td class="align-top"><center><br></center></td>
<td class="align-top">{{ bk.b_author }}</td>
<td>
{% if bk.id == 1 %}
<a href="http://iips.icci.edu.iq/images/exam/Software-Engineering-9th-Edition-by-Ian-
Sommerville.pdf">
<span class="text-muted">{{ bk.url }}</span>
</a>
{% endif %}
{% if bk.id == 2 %}
<a href="http://dinus.ac.id/repository/docs/ajar/RPL-
7th_ed_software_engineering_a_practitioners_approach_by_roger_s._pressman_.pdf">
<span class="text-muted">{{ bk.url }}</span>
</a>
{% endif %}
</td>
</tr>
</tbody>
</table>
```

# SOFTWARE DEVELOPMENT DOCUMENT

```
{% if bk.id == 3 % }
<a
href="http://library.aceondo.net/ebooks/Computer_Science/Data_Communication_and_Network
ing_by_Behrrouz.A.Forouzan_4th.edition.pdf">
<span class="text-muted">{ {bk.url} }</span>
</a>

{% endif % }
{% if bk.id == 4 % }
<a href="https://rukminim1.flixcart.com/image/832/832/book/6/2/1/operating-system-principles-
original-imadda6c5vht7hgg.jpeg?q=70">
<span class="text-muted">{ {bk.url} }</span>
</a>

{% endif % }
{% if bk.id == 5 % }
<a href="https://inspirit.net.in/books/academic/Interactive%20Computer%20Graphics.pdf">
<span class="text-muted">{ {bk.url} }</span>
</a>

{% endif % }
{% if bk.id == 6 % }
<a
href="https://doc.lagout.org/programming/OpenGL/Computer%20Graphics%20with%20Open
GL%20%284th%20ed.%29%20%5BHearn%2C%20Baker%20%26%20Carithers%202013%5D.
pdf">
<span class="text-muted">{ {bk.url} }</span>
</a>
{% endif % }
{% if bk.id == 7 % }
<a
href="https://doc.lagout.org/programming/OpenGL/Computer%20Graphics%20with%20Open
GL%20%284th%20ed.%29%20%5BHearn%2C%20Baker%20%26%20Carithers%202013%5D.
pdf">
<span class="text-muted">{ {bk.url} }</span>
</a>
{% endif % }

</td>
</tr>
{% endfor % }

</tbody>
</table>
{% endblock % }
```

# SOFTWARE DEVELOPMENT DOCUMENT

## ROLES AND RESPONSIBILITIES

To make project successful, contribution of each team members is equally important. Hence each one has to take responsibilities to contribute towards work. Our project consists of three members where we divided work equally among ourselves such that pressure and work will reduce.

Team member 1: Took the responsibility of creating HTML files of different module which has to be connected to the backend database.

Team member 2: Took the responsibility of working on backend that is creating models

Team member 3: Took the responsibility of creating new.py python file which connects the HTML files and database.

Team member 4: Took the responsibility of making reports.

# SOFTWARE DEVELOPMENT DOCUMENT

## CONCLUSION

This project helps students to read books online without going to the library. They can login or signup very easily. If they want they can download the pdfs. They can save time. They even don't need to carry heavy books and also no need to come library. Students can read books where ever they are. By notifications, they can check which books are added to the library. They can borrow them. So it is most useful.

# SOFTWARE DEVELOPMENT DOCUMENT

## System Developer

I certify that this software development document is complete, the unit \_\_\_\_\_ defined in this folder has successfully completed development and unit testing, and the unit is ready to be base lined and integrated into the system

Date\_\_\_\_\_

System Developer:\_\_\_\_\_

System Technical Lead Initials: \_\_\_\_\_