

AALSI : Progress report

What is AALSI?

AALSI stands for **An Administrative Library system for Information**. This is a web page at its initial level that possess the ability to handle a good number of data storing books on the basis of:

- 1) Name
- 2) Semester
- 3) Branch
- 4) Reference/Textbooks

Practical Areas where AALSI can become handy and useful

- 1) AALSI can help a student in following ways:
 - A) It can help the student to find which books are available in their library.
 - B) It can help the student to decide that which book will be most beneficial for him/her.

C) It can help students sort the books on basis of various factors such as semester,author,reviews(advanced version),etc.

D) It will also show whether the book is presently issued by any student or is left unissued .This can remove the activity of student going to library frequently and asking for the book.

E) It can also raise a query , wherein the student can ask for an issued book for himself so that every student can have the benefit of the library books.

F) A remainder service via SMS or e-mail is also planned which can remind the student that how many days short he is for returning his/her book.

2) AALSI can be useful to Librarian in the following ways:

A) It can help him to check which books are available in the library.

B) It can show the tentative return date of any particular book.

C) It will help the librarian in sorting the books and also searching the dead stock, frequently issued books etc.

D) A good database can show him many useful information such as which books are not issued frequently, which books are issued very frequently, which books have been outdated, and many more.

3) AALSI can help the college in various ways:

A) It can show the list of books that are coming short and is always in high demand.

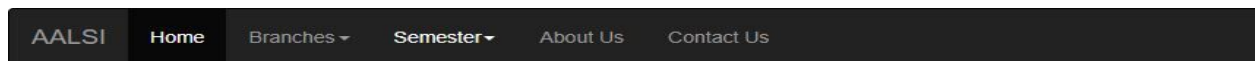
B) It can show black-list of students.

C) It can keep a chronological history of a particular student.

Frontend

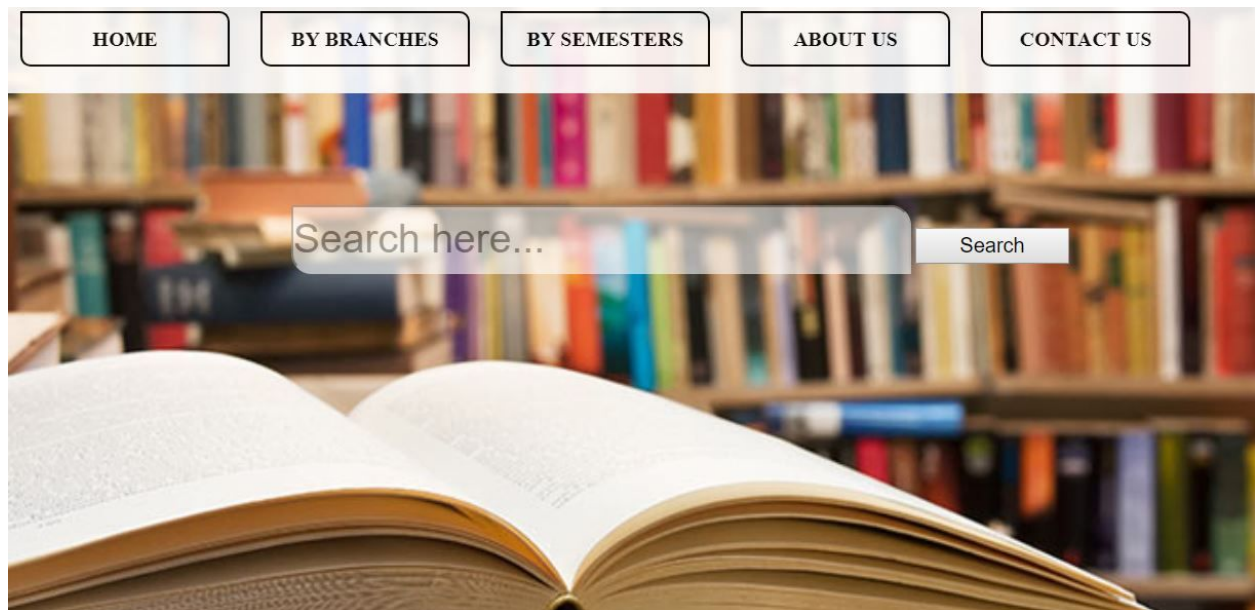
We have created our website UI with the languages like (HTML,CSS,BOOTSTRAP,jQuery).

For HOME PAGE we have created the menus of that will sort the books branch-wise or semester wise.



We have also created a “Search Bar” to search the book directly by name and author , so that student can

come to know that this book is available in the library or not.



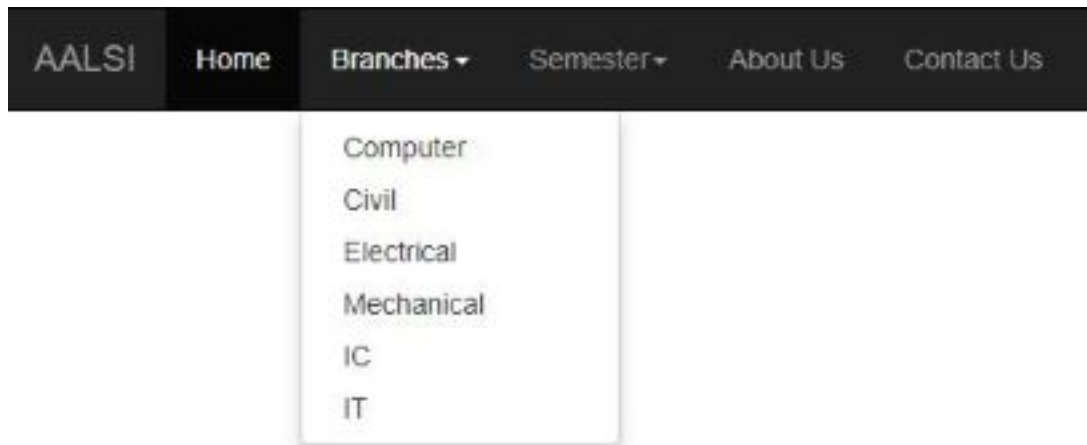
In **Branch section** we have included different branches so that it will help the students to what are the different books available at our College library.

The next pin page in any branch gives the list of whole books that are available for their branch with Subject and Semester-wise.

After clicking on any book there is short description available for that book.

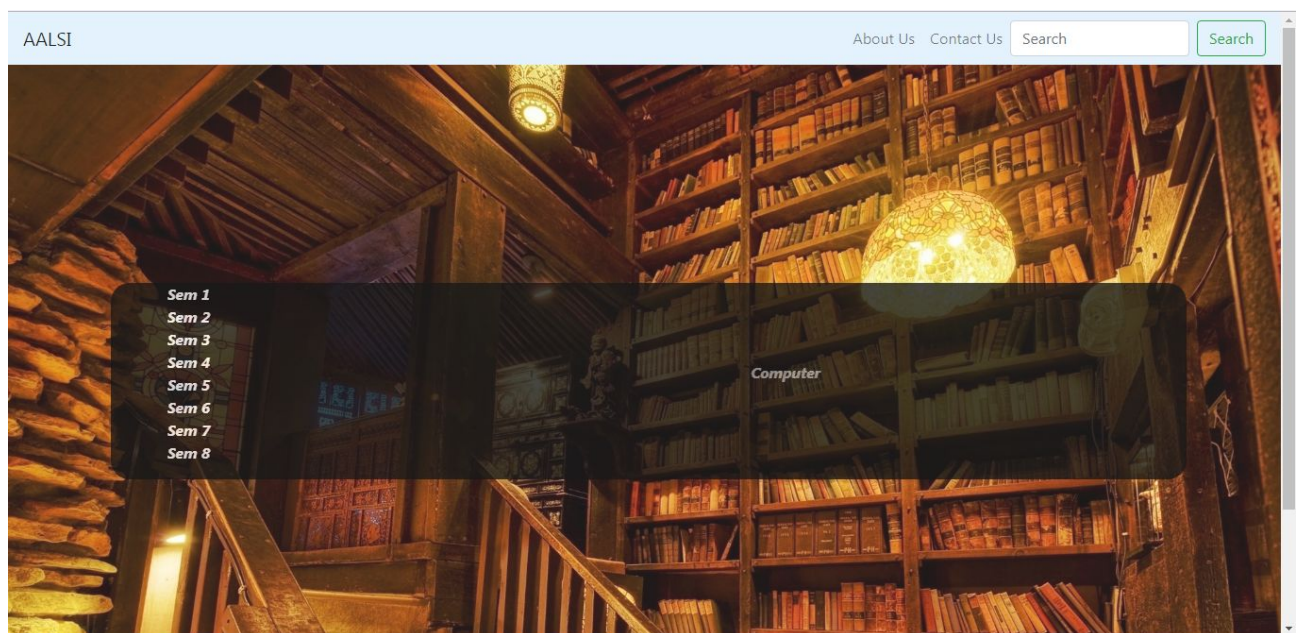
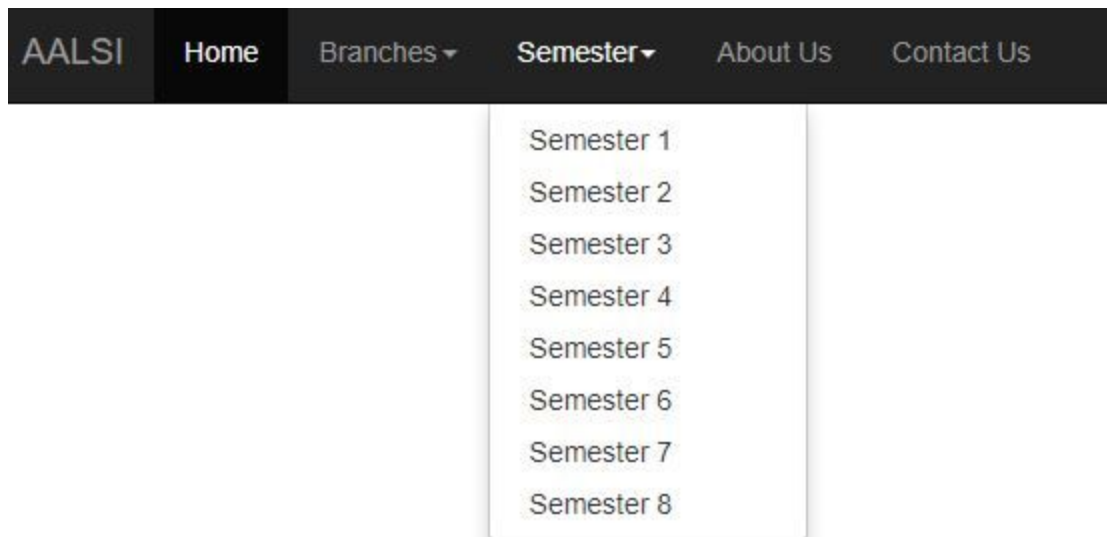
It also shows that it is available in our library or not.

If book is not available then the page will also show the tentative written date.



In the mentioned below, In "**Semester-wise menu**" students will be able to find out which books are the best suitable for their current semester on various pre-defined factors.

After clicking on any semester menu it will show all the books available for that semester.



Backend



The backend of our project is done completely in django. Django is high-level python Web framework that encourages rapid development and clean, pragmatic design.

Django is not only ridiculously fast but is also reassuringly secure. Django takes security seriously and helps developers avoid many common security mistakes.

We are using the latest release of Django that is the django 2.0.

Django comes with an inbuilt light weight web server and admin page. Which makes maintenance and administration easy.

We are using Sqlite3 as a database with Django. Sqlite is a lightweight database system that comes with django. Django also supports databases like mySQL.

The Work of Database in AALSI

Database will hold the record of all the students. It will come to role when a student wants to use various functionalities of the AALSI. It will help the student to know whether a particular book is available in the library for issue or whether the book is already issued.

Database will also help to retrieve data for librarian to maintain a record of students as well as books .

Database will be a very handfull in AALSI for performing the sorting and searching task too. It will make use of database server to hold all sort of data.

