

Merit-Based Hostel Allotment Portal

My objective in developing this portal was to make the hostel allotment process more accurate, transparent, and hassle-free.

The existing manual system of sorting applications based on room preference, flank choice, floor choice, and preferred roommates, while also considering student merit, was complex and prone to errors. Achieving accurate allotment through manual methods was practically impossible.


Drawing inspiration from the JEE college seat allotment system, where technology enables merit-wise allocation across multiple preferences, I saw a similar opportunity here to apply IT solutions.

I take pride in using my engineering knowledge to design and implement a system that addresses this real-life challenge effectively.

How the new system works (step by step):

Student Application Form

AIT Hostel Allotment Login Register



Army Institute of Technology
Dighi Hills, Alandi Road, Pune-411015

Hostel Allotment Form

Flank Choices: None > None > None

Registration No

Roll No

Student Name

Year FE branch E&TC A

Cumulatibe Marks (%) Accomodation For:

After login student will be redirected to this page this is student side of application wherein he will be reflect various choices for hostel room.

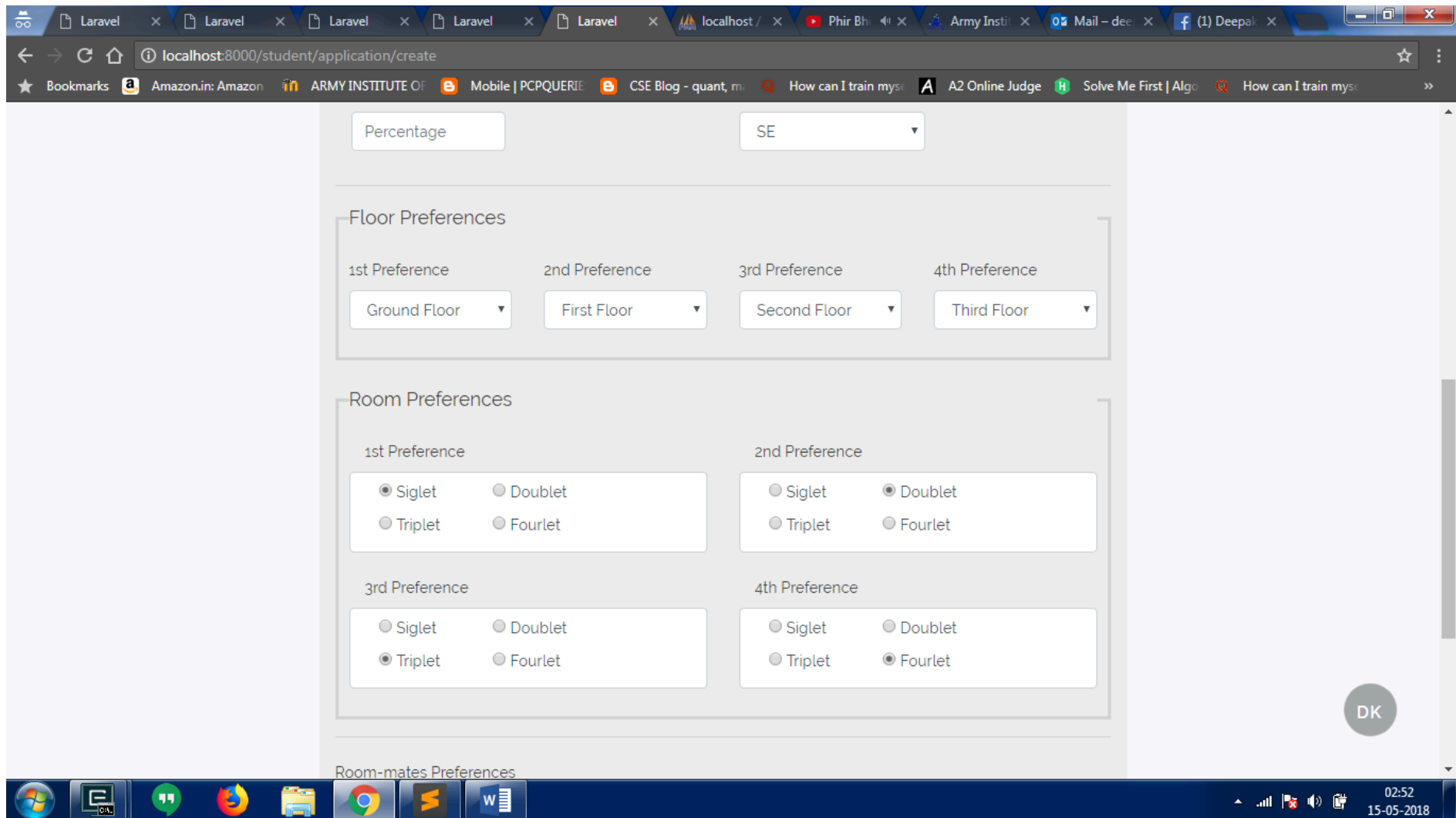
The data will be processed and will be saved in year wise format.

the option here will be reflected as set by admin for year wise allotment

Activate Windows now
The activation period has expired.
Click this message to start activation.

DK

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15-05-2018



localhost:8000/student/application/create

1st Preference2nd Preference3rd Preference4th Preference

☒ Siglet

☐ Doublet

☐ Triplet

☐ Fourlet

☐ Siglet

☒ Doublet

☐ Triplet

☐ Fourlet

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Room-mates Preferences

1st Preference

Enter Reg No

Enter Name

2nd Preference

Enter Reg No

Enter Name

3rd Preference

Enter Reg No

Enter Name

Submit Application

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Admin Dashboard

AIT Hostel Allotment Login Register

Army Institute of Technology Pune

Hostel Allotment Year-wise

[First year Applications](#) [Second year Applications](#) [Third year Applications](#) [Fourth year Applications](#)

link to list the hostels

Hostel Statistics

Dashboard of admin panel
all the hostel info will be managed here

Manage Hostels -CRUD

Sr No	Hostel ID	Hostel Name	Manage Rooms
1	3	OBH C	Hostel Dashboard
2	2	OBH A	Hostel Dashboard

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localhost:8000/hostel/allotment

Hostel Statistics

Manage Hostels -CRUD

Sr No	Hostel ID	Hostel Name	Manage Rooms
1	3	OBH C	Hostel Dashboard
2	2	OBH A	Hostel Dashboard
3	1	NBH2	Hostel Dashboard

all the hostel listed will be displayed here with links to hostel dashboard

Accommodation Planning

(Set the hostels to be allotted year-wise)

Total Boys Hostels/Flanks for Accomodation- 3

Manage Hostel Planning

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to add or delete hostels

this is important, where admin will plan the different hostel/flanks for year-wise students

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Hostel Listing Page

Army Institute of Techology Pune

Boys Hostel

Sr No	Hostel ID	Hostel Name	Delete
1	1	NBH2	<input type="checkbox"/>
2	2	OBH A	<input type="checkbox"/>
3	3	OBH C	<input type="checkbox"/>

Add New Hostel

Sr No	Hostel ID	Hostel Name
1	<input type="text"/>	<input type="text"/>

Add Hostel

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section of list new hostel

Year wise Hostel Planning

Sr No	Year	Hostel 1	Hostel 2	Hostel 3
1	TE	3	2	1

hostel Planning page, where admin will specify which hostels/ flanks are to be available for which year student

Set Hostel Choices

Sr No	Year	Hostel 1	Hostel 2	Hostel 3
1	FE	None	None	None

hostel IDs (OBH A, OBH C, NBH II)

LISTING AREA

Add Choices

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Hostel Dashboard, all flanks will have their respective pages

OBH A

Room Statistics

Present Hostel Capacity -6 Beds

beds availability

Manage Room

Link to enter flank wise rooms details will be entered by resective wardens

Room Accomodation

Sr No	Floor	Room No	Bed No	Reg No	Name	year	Branch	Type of Room
1	1	101	1	16744	KURRA	2	1	3
2	1	101	2	16725	HATI	2	1	3
3	1	101	3	16752	RS	2	2	3

Table of student allotted this hostel

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localhost:8000/ait/boyshostel/2

Amazon.in: Amazon ARMY INSTITUTE OF Mobile | PCPQUERIE CSE Blog - quant, m How can I train myse A2 Online Judge Solve Me First | Algo How can I train myse

Rooms Availability

Sr No	Flank	Room No	Type of Room	Actions
1	1	101		
2	2	201		
3	3	301		

Manage Hostel page
Details of Floor/ Room No/ Room Time

For each hostel

Add Room

Sr No	Floor	Type of Room	Room No
1	<input type="text"/>	<div>Siglet</div>	<input type="text"/>

Add New Room

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15-05-2018

Third Year Students allotted rooms details....and other info like total capacity and strength

AIT Hostel Allotment Login Register

Year wise allotment page → **Third Year Students**

Rooms Statistics

Hostel Alloted OBH C OBH A NBH2 **Names of hostel which was planned by admin for yearwise studentd**

Total Bed Capacity : 9 Beds **Total Strengh : 9 Students**

Hostel Accomodation

Details of rooms of All the students of third years who have been allotted rooms

Sr No	Hostel ID	Floor	Room No	Bed No	Reg No	Name	year	Branch	Type of Room
1	1	1	101	1	16750	DK	2	1	2
2	1	1	101	2	16721	SUNIL	2	2	2

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Third Year Students Hostel application received at back end

AIT Hostel Allotment

all the hostel applicant of third year
Admin side pages

Third Year Students

Hostel Applications

Link to start Allotment algorithm
all the data of students will be passed to function and result will be generated in result page

Allot Rooms

Sr No	Reg No	Roll No	Name	Year & Branch	Marks	Ongoing Year	Hostel Preference	Floor Preference	Room Preference	Roommate Preference
1	16721	1256	SUNIL	SE E&TC-A	8.88	TE	1. 3 2. 2 3. 1	1. 2nd Floor 2. 2nd Floor 3. 2nd Floor 4. 2nd Floor	1. Triplet 2. Triplet 3. Triplet 4. Triplet	1. 16725 2. 3.
2	16756	54545	DAYA	SE E&TC-A	7.78	TE	1. 3 2. 2 3. 1	1. 2nd Floor 2. 1st Floor 3. Ground 4. 3rd	1. Triplet 2. Triplet 3. Triplet 4. Fourlet	1. 16721 2. 16725 3.

Details of choices subitted by students in his application form

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15-05-2018

Testing Results

localhost:8000/hostel/allotment/3

Applications Received

Sr No	Reg No	Roll No	Name	Year & Branch	Marks	Ongoing Year	Hostel Preference	Floor Preference	Room Preference	Roommate Preference
1	16721	1256	SUNIL	SE E&TC-A	8.88	TE	1 3 2 2 3 1	1 2nd Floor 2 2nd Floor 3 2nd Floor 4 2nd Floor	1 Triplet 2 Triplet 3 Triplet 4 Triplet	1 16725 2 3
2	16756	54545	DAYA	SE E&TC-A	7.78	TE	1 3 2 2 3 1	1 2nd Floor 2 1st Floor 3 Ground 4 3rd Floor	1 Triplet 2 Triplet 3 Triplet 4 Fourlet	1 16721 2 16725 3
3	16744	1245	KURRA	SE E&TC-A	8.74	TE	1 3 2 2 3 0	1 2nd Floor 2 1st Floor 3 Ground 4 3rd Floor	1 Singlet 2 Triplet 3 Doublet 4 Fourlet	1 16740 2 16756 3

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Hostel Accomodation

Allotment Result
working correct (Results as expected)

Sr No	Hostel ID	Floor	Room No	Bed No	Reg No	Name	year	Branch	Type of Room
1	2	1	101	1	16744	KURRA	2	1	3
2	1	1	101	2	16721	SUNIL	2	2	2
3	1	1	101	1	16750	DK	2	1	2
4	2	1	101	3	16752	RS	2	2	3
5	2	1	101	2	16725	HATI	2	1	3
6	3	1	101	1	16753	KK	2	3	1
7	2	2	201	1	16740	SUBH	2	5	1
8	2	3	301	2	16751	BPD	2	1	2
9	2	3	301	1	16758	PF	2	5	2

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Objective of Application

- Transparent Merit-Based Allotment – Ensures hostel allocation is carried out strictly on the basis of student merit and preferences.
- Automated Result Generation – Eliminates manual effort, reduces errors, and saves significant time.
- Efficient Hostel & Student Management – Provides an organized system to manage hostel and student records with ease.
- Real-Time Tracking – Maintains updated records of every room change and generates accurate reports instantly.
- Professional & Scalable Solution – Designed to handle large volumes of applications while maintaining accuracy and reliability.