



HOSTEL ROOM ALLOCATION MANAGEMENT

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Key features of the project

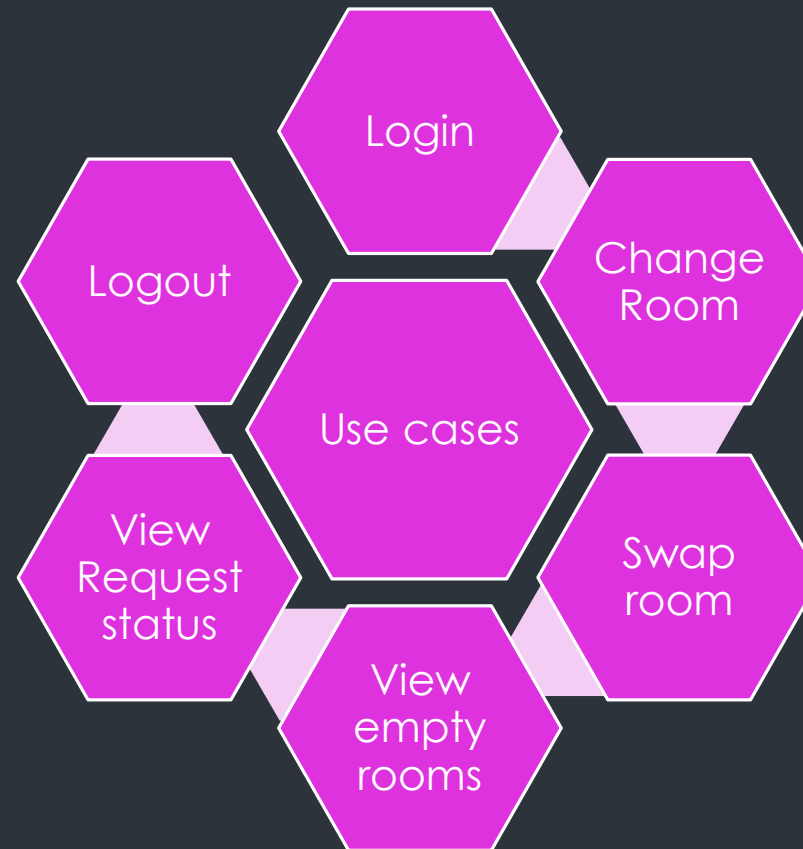
- The Project Hostel room Allocation is a software for allotting the rooms to students in hostels.
- Its main purpose is to allot rooms to the students and change/swap the rooms if possible conditions are satisfied.
- The software aims at providing an application for the convenient allocation of rooms for the students as well as an equally convenient way of managing the process by the concerned authorities(Admin).
- In this Software, rooms are already allotted to the individual students at the start of the each year.



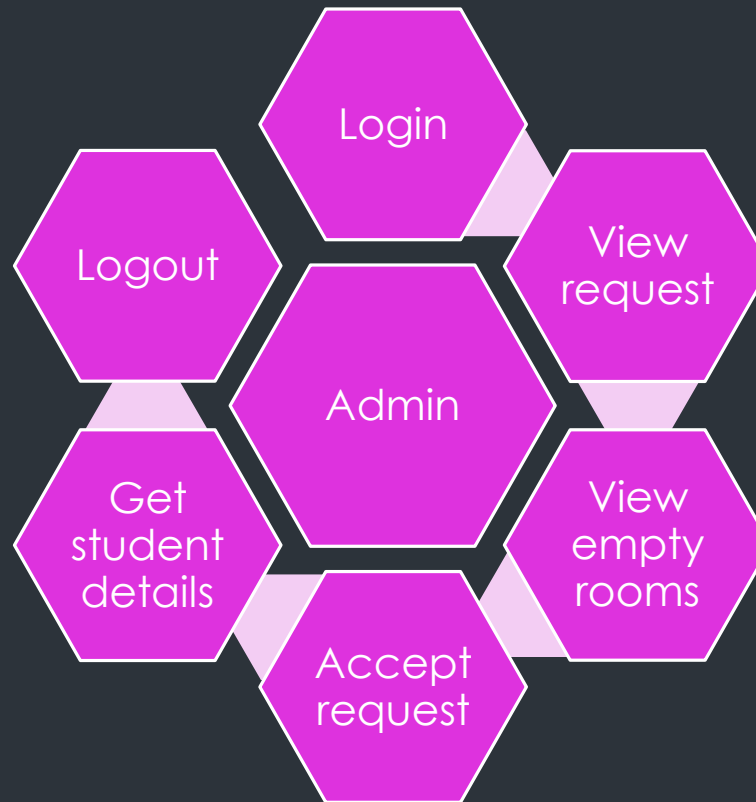
Key features of the project

- The students will be able to request for a room change/swap.
- The room allocation will be based on the room availability and the preference of the students.
- The Hostel Management Committee(Admin) will be able to process the requests.
- Admin checks the requests from students and depending the availability of the rooms , Admin either accepts or rejects the room.
- Students can check the status of their requests.
- After accepting/rejecting the rooms, Admin can edit the database accordingly.

List of use cases



List of use cases



Structure of the database/ file system

Student

- First name
- Last name
- Student id
- Phone number
- Room Number

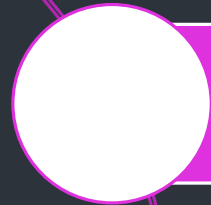
Request

- Student id
- Room number
- Request status
- Request type

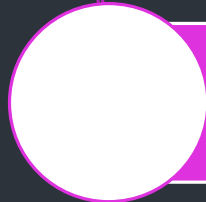
Room

- Room number
- Floor
- Hostel
- Room Status

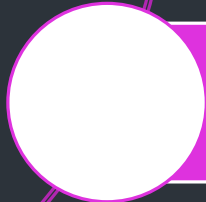
Things that could not be implemented



We have used File handling instead of Database



Strings with white Spaces



Some file handling issues-Format issues

Statistics of unit and system testing

Unit test

- Pass:38(Pre-tested, Feasible)
- Fail: 10(Cross-test, Feasible)

System test

- Pass:10(Pairwise)
- Fail:3(Pairwise)

Enhancement Phase

- 7 errors rectified



Cross-Testing Analysis

Workflow management System

- Group 5



Statistics of the test cases

- Unit testing : CFG used: Branch Coverage Method – 182 test case
- System testing: End-to-end/Pairwise technique – 19 test case
- Cross-Project testing: 13



Conclusion

- All the requirements as mentioned in the SRS are fulfilled.
- Unit and System Testing have been carried out extensively.
- Valid changes from cross testing report were implemented in enhancement phase.



**Thank
You!!!**