
SECJ2013-06: Data Structure and Algorithm

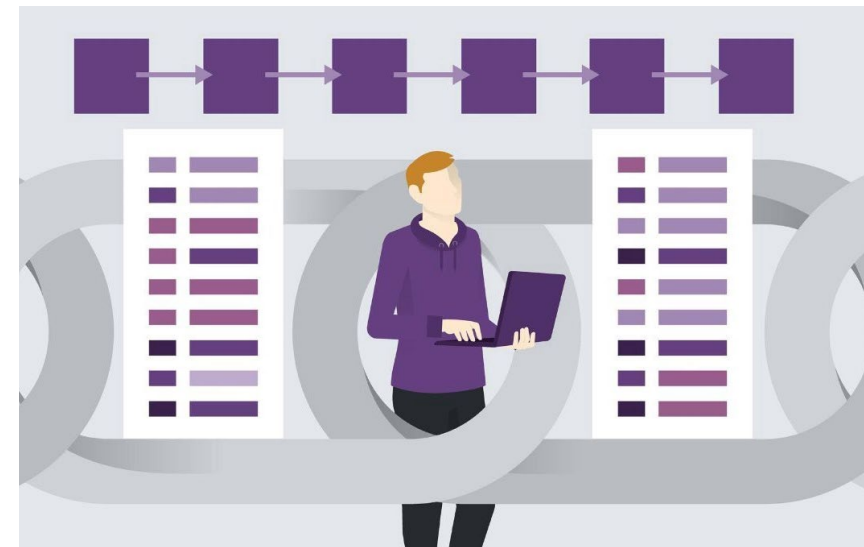
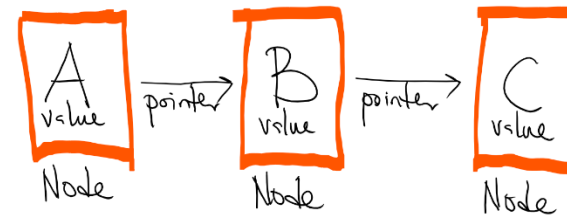
ASSIGNMENT 2: LINKED LIST

HOSTEL MANAGEMENT SYSTEM

Members:

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linked list



INTRODUCTION

- We are assigned to design a project of Hostel Management System. The aim of this project is to give student and staff a view of the hostel. This system is made in such a way that a minimum educated and simple computer knowledge so that any user can understand it. There basically two types of users who can use this system who are students and staff. Students can book hostel rooms whereas staff can view overall booking details of all students as well as conduct sorting. Both can conduct search using linked list method.





OBJECTIVES

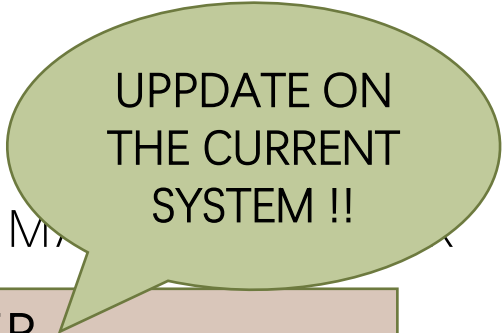
1. Provide centralized hostel management system.
2. Provide staff with an easier view of booking details done by students.
3. Prevent data loss by storing the students' booking details in the system.
4. Allow an efficient engagement from the students to navigate through the system while input necessary data for the hostel booking.

DESIGN OF PROGRAM

1. STUDENT REGISTRATION
2. COLLEGE AND ROOM REGISTRATION
3. CHECK IN AND CHECK OUT
4. PAYMENT AND RECEIPT
5. STAFF SECTION TO VIEW STUDENTS' DETAILS AND SORT MATRIC NUMBER
6. STAFF SEARCHING THROUGH STUDENTS' MATRIC NUMBER

ADDED A SEARCHING LINKEDLIST CONCEPT TO THE SYSTEM

note: get the student details by searching through student matric number



UPDATE ON
THE CURRENT
SYSTEM !!

DEMO OF THE PROGRAM

- Presentation video link:
<https://youtu.be/tULFocnUAKg>





CONCLUSION

- We hope that prototype proposed delivers the benefits to the students and staffs in various aspects. The prototype has proven to achieve the objectives mentioned before. Not only the staff can easily view the hostel booking details, but the students are also able to input their credentials efficiently and more secure. What makes this prototype unique is its' linked list function where staff and student can use the search feature to find information relating to college booking.