Campus Housing Management System

(Instructor: James Buckley)

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ABSTRACT

This project “Campus Housing Management System” provides us a simple interface for maintenance of student information and student billing information in Campus Residence. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project. Throughout the project the focus has been on presenting information in an easy and intelligible manner. The project is very useful for those who want to know about Campus Housing Management Systems and want to develop software/website based on the same concept. The project provides facilities like online Data, profile creation and meal plan of students. Thus reducing paperwork and automating the record generation process in an educational institution or colleges.

INTRODUCTION

The objective of Campus Housing Management System is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile. It'll also facilitate keeping all the records of students, such as their id, name, mailing address, phone number, DOB and the Student Housing fee in billing cycles. So all the information about a student will be available in a few seconds. Overall, it'll make Campus Housing Management an easier job for the administrator, Employee and the student of any organization. The main purpose of this this document is to illustrate the requirements of the Campus Housing Management System and is intended to help any organization to maintain and manage its student's personal data and to maintain a clarity in fee paid by students. Without a Campus Housing Management System, managing and maintaining the details of the student is a tedious job for any organization. Campus Housing Management System will store all the details of the students including their background information, personal details and billing information of their Housing.

This project is fully developed using MySqL.

Research

With the explosive growth of Internet, discussion has become an essential communication media for exchanging information and ideas over World Web Wide. Some of the problems like information overload are generated. If the forum becomes very populated, many people post queries and comment on others query then it becomes very difficult to find best comments. Some post or thread may be unanswered generate unwanted data. In the user generated content, it become very difficult to find the quality content. Other problem is to find relevant information from the excessive data available on a Student billing system. Information retrieval is another big problem since there is plenty of useless information which categorized into three categories: Invalid pages, Replicated pages and login pages. To save our time we created this tool to get rid of all these unwanted pages.

REQUIREMENT ANALYSIS

Introduction:

The requirements specification is a technical specification of requirements for the software products. It is the first step in the requirements analysis process. This describes the project target audience and its user interface, hardware and software requirements. It defines how the client, team and audience see the project and its functionality.

Software requirement Specification:

- HTML
- Java Script, JDBC
- My SQL
- PHP
- MAMP/WAMP (for mac and windows)- web server
- Windows

Hardware Requirement Specification

- Pentium III/IV
- 20 GB Hard Disk, 64 -128 MB RAM or Above
- 10 Mbps Network Interface Card.

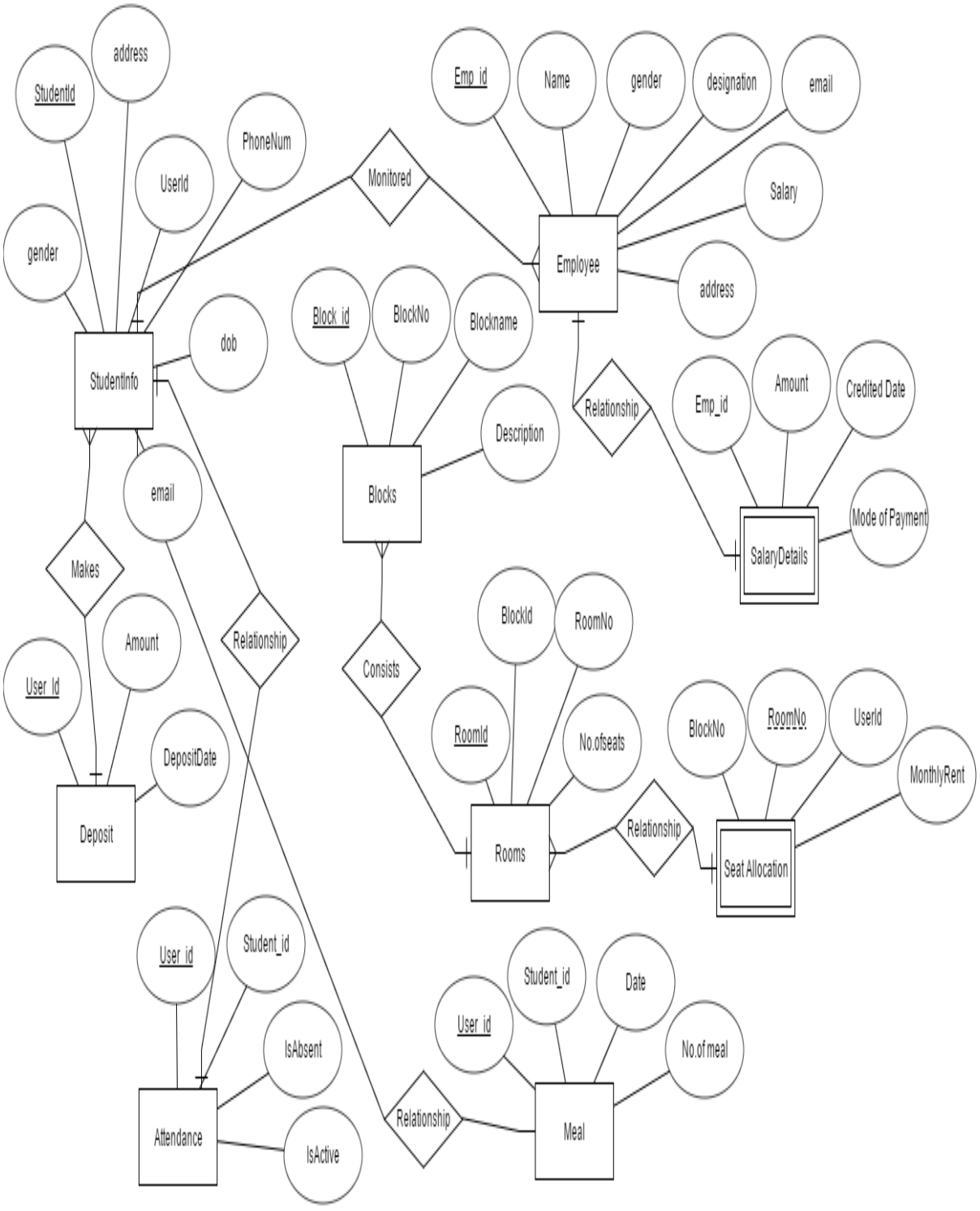
Communication Protocols

TCP/IP Protocol	Transmission Control Protocol/Internet Protocol
FTP Protocol	File Transfer Protocol
HTTP Protocol	Hyper Text Transfer Protocol
HTML	Hyper Text Markup Language

DESIGN:

1. Student info
2. Employee
3. Blocks
4. Rooms
5. Deposit
6. Attendance
7. Seat Allocation
8. Meal
9. Salary Details

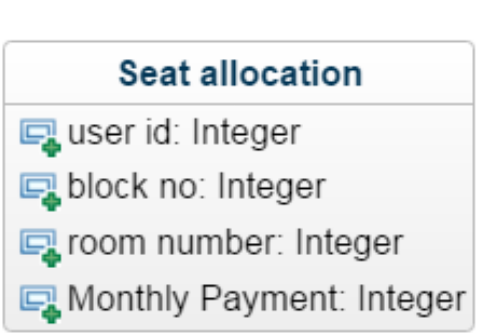
ER Diagram:

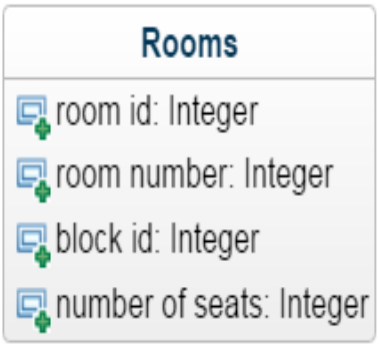

address
StudentId
PhoneNum
UserId
gender
Monitored
dob
StudentInfo
email
Makes
Amount
User_Id
DepositDate
Deposit
Relationship
User_id
Student_id
IsAbsent
Attendance
IsActive
Emp_id
Name
gender
designation
email
Salary
Employee
address
Block_id
BlockNo
Blockname
Description
Blocks
Consists
Relationship
Emp_id
Amount
Credited Date
Mode of Payment
SalaryDetails
BlockId
RoomNo
RoomId
No.ofseats
Rooms
Relationship
BlockNo
RoomNo
UserId
MonthlyRent
Seat Allocation
User_id
Student_id
Date
No.of meal
Meal
Relationship

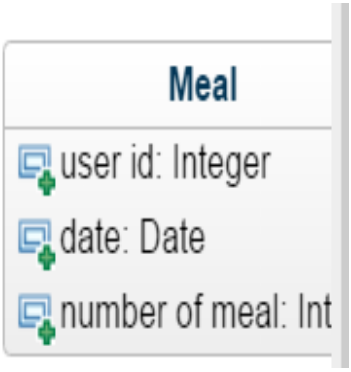
Relational Schema:

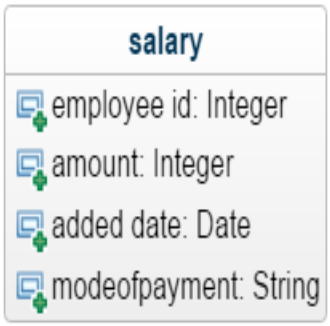
- Student info(Userid, studentid, phonenumber, Email, Address,gender)
- Employee(EmpId,EmpName,gender, Address, phonenumber, designation, dob, address, Employee_Type)
- Blocks(Blockid, Blockname, Blocknumber, description)
- Rooms(Roomid, Roomnumber, blockid, no.of seats)
- Deposit (Userid, Amount,Deposit Date)
- Attendance(Userid, Date, isabsent, isleave, remark)
- SeatAllocation(Userid, block no, roomnumber,MonthlyPayment)
- Meal(Userid, Date,no.ofmeal)
- SalaryDetails(Employee_Id, Amount, Added Date, Mode_of_payment,)
- Users(user_id, username, password, firstname, lastname, status)

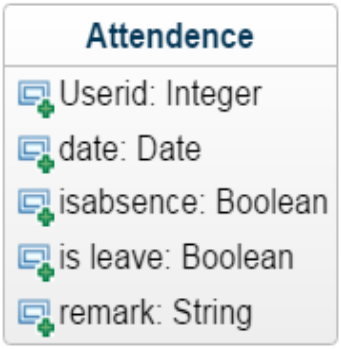
List of tables

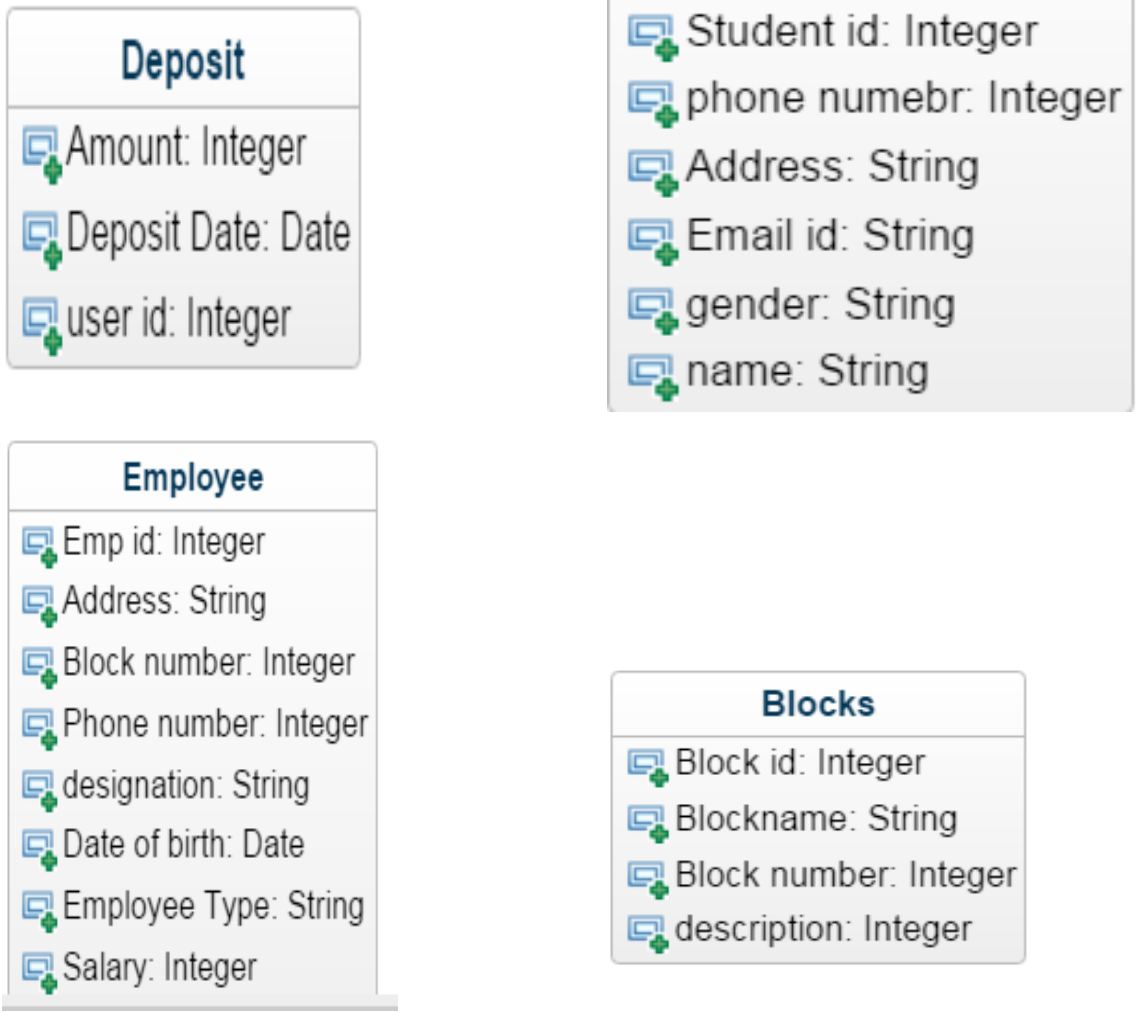











Deposit
Amount: Integer
Deposit Date: Date
user id: Integer
Student Info
Userid: Integer
Student id: Integer
phone numebr: Integer
Address: String
Email id: String
gender: String
name: String
Employee
Emp id: Integer
Address: String
Block number: Integer
Phone number: Integer
designation: String
Date of birth: Date
Employee Type: String
Salary: Integer
Blocks
Block id: Integer
Blockname: String
Block number: Integer
description: Integer

Login Page:


Hostel Management System
Dashboard
Attendence
Meal Manage
Cost Manage
Students Manage
Students Payment
Employee Manage
$ Vendor Payment
Bill Manage
Notice Board
Setting
Setup
Dashboard
3
Total Employee
View Details
5
Current Student
View Details
2
Total Rooms
View Details
0
Today's Meal
View Details
Notice Board
completed [20th April,2017 02:30:05 PM]
Happy Ester [20th April,2017 02:29:37 PM]
20th March DB Final Presentation [20th April,2017 03:34:40 PM]
Top 4 notice
View All
APRIL
2017
MON TUE WED THU FRI SAT SUN
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

Queries:

```
SELECT a.serial,b.name,a.amount,DATE_FORMAT(a.depositDate, '%D %M,%Y') as date from deposit as a, studentinfo as b where a.userId = b.userId and b.isActive='Y'
```

[Edit inline] [Edit] [Explain SQL] [Create

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

serial	name	amount	date
6	K.Venky	6000.00	20th April,2017
7	M.Yashwanth	5500.00	20th April,2017
4	B.Tharun	5200.00	8th April,2017
5	R.Jagan	5623.00	6th April,2017

```
SELECT a.serial,b.name,a.noOfMeal,DATE_FORMAT(a.date, '%D %M,%Y') as mealDate FROM meal as a,studentinfo as b where a.userId=b.userId and b.isActive='Y'
```

[Edit inline] [Edit] [Explain SQL] [

Show all | Number of rows: 25 Filter rows: Search this table

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serial	name	noOfMeal	mealDate
10	K.Venky	2	20th April,2017
9	M.Yashwanth	3	19th April,2017
6	A.Bhanu	4	10th April,2017
5	B.Tharun	6	12th April,2017
7	R.Jagan	5	12th April,2017

```
SELECT a.serial,b.name,a.date,a.isAbsence ,a.isLeave,a.remark FROM attendence as a,studentinfo as b where a.userId=b.userId
```

[Edit inlin

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serial	name	date	isAbsence	isLeave	remark
17	K.Venky	2017-04-20	No	No	Self
18	K.Venky	2017-04-19	No	No	nns
23	K.Venky	2017-04-06	NO	NO	ref
19	M.Yashwanth	2017-04-02	NO	NO	self
20	A.Bhanu	2017-04-03	NO	YES	nns
22	B.Tharun	2017-04-05	YES	NO	clr
21	R.Jagan	2017-04-04	YES	YES	ref
24	R.Jagan	2017-04-07	YES	YES	self

```
SELECT empId,name,empType,salary FROM employee where empId='EMP002'and isActive='Y'
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	empId	name	empType	salary
Edit Copy Delete	EMP002	Mrs.Meghan	Attendent	2345.00

1 row affected. (Query took 0.0013 seconds.)

```
UPDATE employee set salary=10000 WHERE empId='EMP002' AND name='Mrs.Meghan'
```

```
SELECT empId,name,empType,salary FROM employee where empId='EMP002'and isActive='Y'
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	empId	name	empType	salary
Edit Copy Delete	EMP002	Mrs.Meghan	Attendent	10000.00

```
SELECT a.serial,b.name,a.transDate,a.paymentBy ,a.transNo,a.amount,a.remark,a.isApprove FROM stdpayment as a,studentinfo as b where a.userId=b.userId
```

[Edit inline] [Edit] [Explain SQL]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

serial	name	transDate	paymentBy	transNo	amount	remark	isApprove
3	K.Venky	2017-02-26	DPNL	+8801755305154	4000.00	Feb,2017 Bill	Yes
4	M.Yashwanth	2015-02-27	Bank	DD-4556	5500.00	test	Yes
5	A.Bhanu	2017-04-17	PayPal	0185236974	2000.00	all cost rent meal,net,tv	Yes
6	B.Tharun	2017-04-05	VECTRAN	526203856	5600.00	Gas Bill	YES

```
SELECT * FROM blocks where description like '%North%'
```

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	blockId	blockNo	blockName	description	isActive
Edit Copy Delete	BL004	BL-01	First Block	North Part Of the colony	Y

Deployment Diagram

- This diagram shows the configuration of run time processing nodes and the components that live on them.
- Graphically, a deployment diagram is collection of vertices and arcs.

Contents

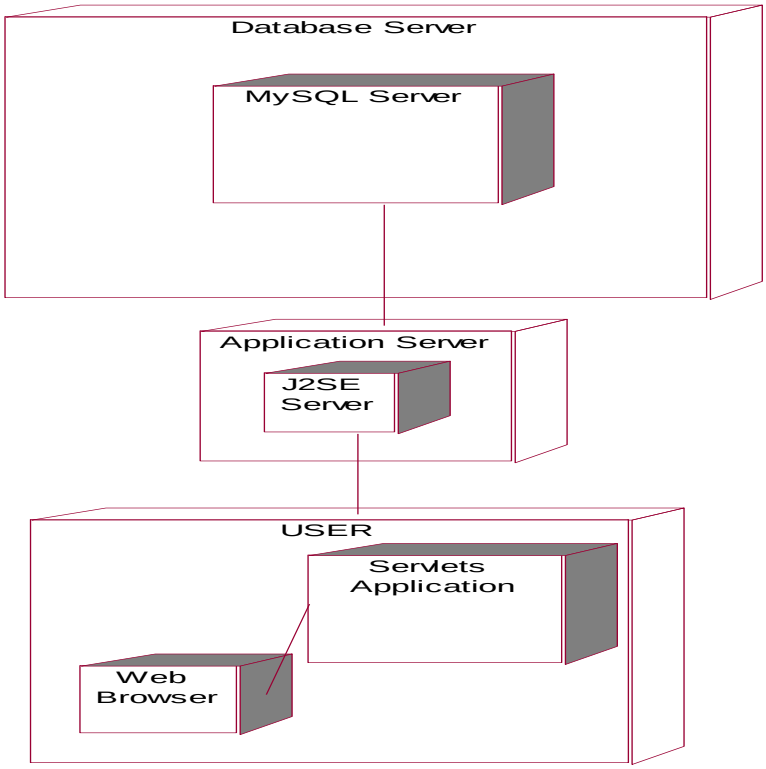
Deployment diagram commonly contain the following things:

- Nodes
- Dependency and association relationships

Like all other diagrams, deployment diagrams may contain notes and constraints.

Deployment diagrams may also contain components, each of which must live on some node.

Deployment diagrams may also contain packages or subsystems, both of which are used to group elements of your model into larger chunks.



CONCLUSION:

Campus Housing Management System has created utilizing Java with the goal that it can be gotten to from a framework. The framework will be equipped for giving data about a wide range of chances to develop a full-fledged Student Campus Housing system by adding admin part to this project. This tool is designed to provide more convenience and it is so simple to use. Utilizing this framework, the users can browse for the required information on their fingertips. A simple very much organized module will demonstrate the right way to achieve the goal. Clients will be confirmed to guarantee that no unapproved clients access private data.

References:

1. An Analysis and Design of Information System-James. A. Senn
2. Software Engineering- Roger. S. Pressman
3. Database Management System- William. S. Robert
4. https://www.merriam-webster.com/dictionary/database