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UML Diagram -DesignPatterns
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Bed and Breakfast Scenario

Guest/s

length of stay number of guests payment method address contact number VIP_memberid

View_room/s()
make_reservation()
get_memberdiscount()
receive_confirmation()

The Rooms

Number of beds type of beds (queen or king) non-smoking or smoking Room amenities/features (fridge etc) size of room

viewroom_types() view_availability() get room_rates() request_roomtype() request_extratowels()

The Bed & Breakfast

historical features - about the Inn Amenities

Events at the Inn Nearby Attractions Hours of operation

View_history()
See B&B photogallery()
View_amenities()
View_attractions()

Employee

Employee name employee position availability employee skills age

hardworking

view_schedule()
request_timeoff()
record_hours()
view_payschedule()
view_benefits()

Owner/manager

manager_id password maintains rooms/grounds

manages employees

edit_schedule()
edit_events()
edit_photogallery
edit-rates
update_benefits
edit-employee_list

Public Elementary School Scenario

Parent

name of child or children attending school parents name address work number child's grade level child's teacher parent-id childcare child's meal plan child's health/ allergies or medications

login()
view_grades()
register_student()
view_curriculum()
view_classpage()
visit_PTO()
view_schoolnews()
view_lunchmenu()
order_lunch()

logout()

School Buses/transportation

bus_number route_numbers driver's route number seat capacity students gas drivers_id

view_busroute()
assignstudent_bus()
view_studentlist()
update_busroute

The Student

student_id grade allergies or medications age locker number test scores

view_homework()
view_classpage()
view_grades()
view_calendar()
access_library()
visit_schoolclubs()

hobbies

The School

buildings
landscaping
School News/Events
Athletics
School Board
The Arts
Library
Playground/facilities
before/after care
summer programs/camps
staff
curriculum

computers

health services

view_athletics()
view_the arts()
contact_staff/administration()
club_signup()
view_events()
register_camp()
view_boardgoals()

addto maintenancelist()

Teachers

staff_id/username password email grade level subject expertise curriculum nurtures plans lessons grades papers meets with parents

view_contract()
update_gradebook()
update-classpage()
view_parentlist
update_lessonbook()
update_calendar()
edit_conferences()
update_studentfile()

Administration

principal/s superintendent human resources secretary technology admin admin_id email

login()
logout()
change_studentroster()
update_schoolbudget()
update_stafflist()
update_teachercontracts()
update_joblist

A charity/organization to help homeless people

Volunteers

helpful counsels age shows empathy set of skills/service/abilities phone number available

register() signout() volunteerschedule() view_trainingclasses() edit_availability()

Receivers/People in need of help

Name homeless age hungry sponsor's contact information (if applicable) poor health jobless cold

register()
food_request()
find_shelter()
find_healthservices()
contact_helpline()
request_supplies()
request_counsel()

Visitor/s

caring humanist charitable payment method name of organization (if applicable) community member

donate_money()
sign_petition()
view_articles()
comment()
employment()
sponsor()
donate_supplies()
view_programs()

Employees

employee_id educated social-personable office phone writes grants & articles organizes pay/benefits media savvy counsels

submit_article()
upload_photo()
update_volunteerschedule()
update_contract()
login()
logout()
request_reimbursement()
edit_budget()
submit_requests()

update programs()