

Front:

Class Name: Room

ID:1

Type: Concrete

Description: A room for students

In dormitory to reserve

Responsibilities

show reservations

reserve rooms

cancel reserves

delete room

manage room's details

Associated Use Cases:

Collaborators

Student

Student, Admin

Student

Admin

Admin

Back:

Attributes:

Number

Subset

Subset_of

Facilities

Monthly_costs

Floor

Capacity

Is_usable

Description

Is_reserved

Group

Dorm

Relationships:

Generalization (a-kind-of):

Aggregation (has-parts): Dorm, Group

Other:

Front:

Class Name: Dorm ID:2

Type: concrete

Description: university or institution

Dormitories

Associated Use Cases: set dormitory admin

Responsibilities

Manage rooms

Show all rooms

Collaborators

Room, Admin

Room, Admin

Back:

Attributes:

Name

Subset

Subset_of

Facilities

Monthly_costs

Number_of_floors

Number_of_rooms

Is_usable

Description

Rooms

Available_rooms

Relationships:

Generalization (a-kind-of):

Aggregation (has-parts): Room,

Other: Admin, Student

Front:

Class Name: Person ID:3 Type:Abstract

Description: An individual who can
sign in and sign up and see her profile

Associated Use Cases:

Responsibilities

Collaborators

Sign in

Sign up

Edit profile

Back:

Attributes:

Username

Password

Name

Age

Gender

National_id

Birth_date

Origin_city

Relationships:

Front:

Class Name: Admin ID:4

Type: Concrete

Description: A person who has

Managing privileges

Associated Use Cases:manage rooms,manage
dormitory,manage students,edit profile

Responsibilities

Collaborators

Manage groups

Group, Student

Manage reports

Back:

Attributes:

Admin_id

Level

Description

Work_hours

Work_days

Employee_date

Relationships:

Generalization (a-kind-of): Person

Aggregation (has-parts):

Other: Group, Student

Front:

Class Name: Student ID:5 Type: Concrete

Description: A person who can

Reserve rooms

Associated Use Cases:login,edit profile,

Delete group

Responsibilities

Collaborators

Make group

group

Request to join group

group

Accept request

group

Back:

Attributes:

Student_id

Grade

Is_elite

Field

Season

Period

Relationships:

Generalization (a-kind-of):Person

Aggregation (has-parts):

Other: group

Front:

Class Name: Group ID:6 Type: concrete

Description: A group of students
that have same room

Associated Use Cases:change group members,

Responsibilities

Collaborators

Delete group

Change head

Invite

Student

Show details

Back:

Attributes:

Number_of_members

Students

Head_student

Requested_students

Requested_to_students

Relationships:

Generalization (a-kind-of):

Aggregation (has-parts):Student

Other: