

Campus administration

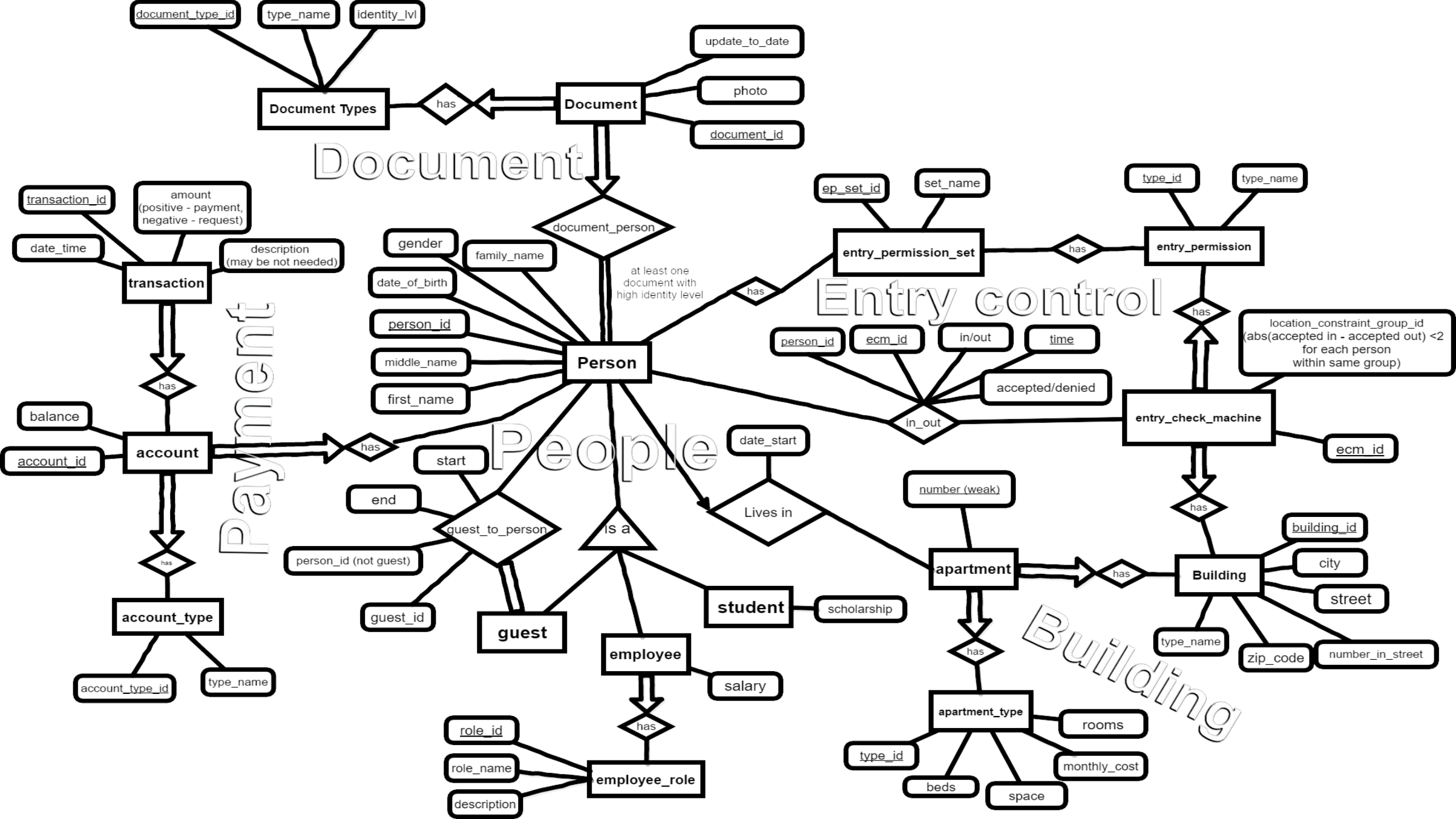
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Idea of the Project

- ▶ Developing an application for managing all tasks related with the allocation and monitoring of the students' housing facilities.
- ▶ It will make the dormitory administrator work easier, more efficient, and make fewer mistakes

Main features

- ▶ Apartments' occupation control
- ▶ Guest control
- ▶ Students and personnel documents maintenance
- ▶ Payment control
- ▶ Personnel attendance control
- ▶ Access control



Technologies



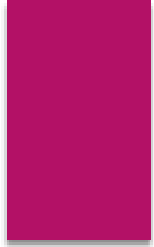
PostgreSQL



JavaFx



JDBC



Students	Employees	List of tenants	Apartments occupation	Guests	Docs	Account balances	Attendance
Occupied beds	Appartment...	Building	Beds	Free Beds			
5	100	1	5	0			
2	101	1	2	0			
2	101	2	2	0			
2	100	2	2	0			
1	100	4	1	0			
1	102	1	5	4			
1	102	4	5	4			
1	101	4	5	4			
1	100	3	1	0			
1	101	3	2	1			
1	102	3	5	4			
1	102	2	5	4			
0	119	2	1	1			
0	404	4	5	5			
0	421	4	1	1			
0	107	2	5	5			
Apartments occupation							
Apartments for female students		Apartments for female employees					
Apartments for male students		Apartments for male employees					

SELECT * FROM apartment_occupation ORDER BY beds_occupied DESC

```
1 SELECT
2     COUNT (li.person_id) AS beds_occupied,
3     A .apartment_number,
4     A .building_id,
5     AT .beds,
6     (
7         AT .beds - COUNT (li.person_id)
8     ) AS free_beds
9 FROM
10     (
11         (
12             apartment A
13             LEFT JOIN lives_in li ON (
14                 (
15                     li.building_id = A .building_id
16                 )
17                 AND (
18                     li.apartment_number = A .apartment_number
19                 )
20             )
21         )
22     )
23     JOIN apartment_type AT ON (
24         (
25             A .apartment_type_id = AT .apartment_type_id
26         )
27     )
28 )
29 )
30 GROUP BY
31     A .apartment_number,
32     A .building_id,
33     AT .beds;
```

Students	Employees	List of tenants	Apartments occupation	Guests	Docs	Account balances	Attendance
First name		Last name	Building	Time			
Silas		Randolph	1	2016-11-16 00:00:00.0			
Willard		Carmichael	1	2016-11-12 08:17:56.0			
Claude		Madrigal	4	2016-09-04 05:34:10.0			
Luciano		Madrid	1	2016-11-19 01:00:51.649...			
Joey		Valdez	2	2016-11-16 23:01:59.0			
Lucius		Carnahan	4	2016-11-15 22:27:45.0			
Joesph		Shea	3	2016-11-06 03:32:34.0			
Lucio		Barton	2	2016-10-17 21:48:22.0			
John		Sheehan	3	2016-11-15 14:42:12.0			
Noel		Dowdy	1	2016-09-19 22:33:31.0			
Harris		Carman	2	2016-10-20 20:32:24.0			
Eldon		Mosier	3	2016-11-13 00:41:37.0			
People inside now							

```
SELECT first_name, family_name, building_id, date_time FROM
persons_inside_campus_now
```



```

1 SELECT
2   in_out.person_id,
3   in_out.ecm_id,
4   in_out.direction,
5   in_out.date_time,
6   in_out.accepted,
7   entry_check_machine.building_id,
8   entry_check_machine.entry_permission_id,
9   entry_check_machine.constraint_group_id,
10  person.first_name,
11  person.middle_name,
12  person.family_name,
13  person.date_of_birth,
14  person.gender,
15  person.main_document_id

```

```

1 SELECT
2   in_out.person_id,
3   MAX (in_out.date_time) AS last_accepted_entry
4 FROM
5   in_out
6 WHERE
7   (in_out.accepted = TRUE)
8 GROUP BY
9   in_out.person_id;

```

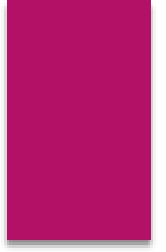
```

16 FROM
17  (
18    (
19      in_out
20      JOIN entry_check_machine USING (ecm_id)
21    )
22    JOIN person USING (person_id)
23  )
24 WHERE
25  (
26    (
27      in_out.person_id IN (
28        SELECT
29          last_time_person_accepted_in_out.person_id
30        FROM
31          last_time_person_accepted_in_out
32      )
33    )
34    AND (
35      in_out.date_time = (
36        SELECT
37          last_time_person_accepted_in_out.last_accepted_entry
38        FROM
39          last_time_person_accepted_in_out
40        WHERE
41          (
42            last_time_person_accepted_in_out.person_id = in_out.person_id
43          )
44      )
45    )
46    AND (
47      (
48        entry_check_machine.constraint_group_id <> 1
49      )
50      OR (
51        in_out.direction <> 'o' :: bpchar
52      )
53    )
54  );

```

Students	Employees	List of tenants	Apartments occupation	Guests	Docs	Account balances	Attendance
Id		First name		Last name		Balance	
7		Claud		Bartlett		-54.0	
5		Harris		Carman		243.0	
8		Willard		Carmichael		-203.0	
26		Lucius		Carnahan		-239.0	
3		Elden		Janes		-33.0	
22		William		Jansen		199.0	
1		Luciano		Madrid		-137.0	
23		Harvey		Madsen		-427.0	
24		Eldon		Mosier		63.0	
9		Harrison		Randall		59.0	
25		Silas		Randolph		318.0	
2		Aurelio		Shay		160.0	
6		Joesph		Shea		-283.0	
21		John		Sheehan		181.0	
4		Shon		Valdes		13.0	
10		Joey		Valdez		-176.0	
Rental fee	Rental fee negative						
Tuition fee	Tuition fee negative						

SELECT * FROM rental_fee_balance ORDER BY family_name



Demonstration of the application