Rent a Friend

There are a lot of people in this world, that are too shy or maybe just lack the communication skills to obtain company or new friends. Or maybe there is an upcoming event that they don't wish to go to alone for which they have an extra ticket. Perhaps your grandmother just wants to see you happy with a girlfriend/boyfriend. Overall there are a lot of occasions when you just wish that someone is there with you, be it an event, a family gathering or a company dinner.

In the course Systems III i want to develop a system that lets users submit the request for a friend/companion and on the other hand lets other users to apply as a companion.

Functional requirements

- 1. The system should allow the user to create and post ads for providing the friend service aswell as for posting ads for receiving the service. The system should enable the user to delete the post. The system also stores the information about the user, such as name, surname, telephone number and date of birth.
- 2. The system will seperate the posts depending on if the person is looking for a friend or is offering to be one in two seperate tabs. The posts on each tab will be ordered in a grid that will span vertically.
- 3. The system will include a chat window through which the users could privately communicate with each other to arrange meetings.
- 4. The system can only be used by registred and verified users for the protection of users themselves.

Non-functional requirements

- 1. The system must be able to process up to 100 posts per minute.
- 2. The system should be developed and deployed withing 2 months of system designs being finalized.

- 3. The data must be stored securely in multiple locations as to pervent data loss.
- 4. The system manages personal information, because of that the information must be encrypted and stored safely.
- 5. The system should allow the users to access the system from any location if it is connected to the internet.
- 6. The system should support 2 different types of users: Rentees and Friends.
- 7. The system must ensure 24/7 operation with an uptime of atleast 97%.
- 8. The system should be packaged as a web application. The installation should be enabled by running a install command.
- 9. The system should include all the necessary documentation for installation and maintenance.

Feasibility study

One of the possible solutions is the creation of a web app. This kind of solution satisfies all the functional and non-functional requirements.

The project does not face any legal consequences as everything that is needed for it's operation is completely legal in the EU. Only the user data must be stored securely and privately.

The proposed information system can be realized on open source software. The service will be free of charge for everyone. The systen does not impose any additional software or hardware cost. The project is also socially acceptable as it promotes making people feel more comfortable.

Matrix user role

Functions	Rentees	Friends
Create/Delete/Edit a	No	Yes
Post looking for a		

friend

Create/Delete/Edit a Yes No

Post offering to be a

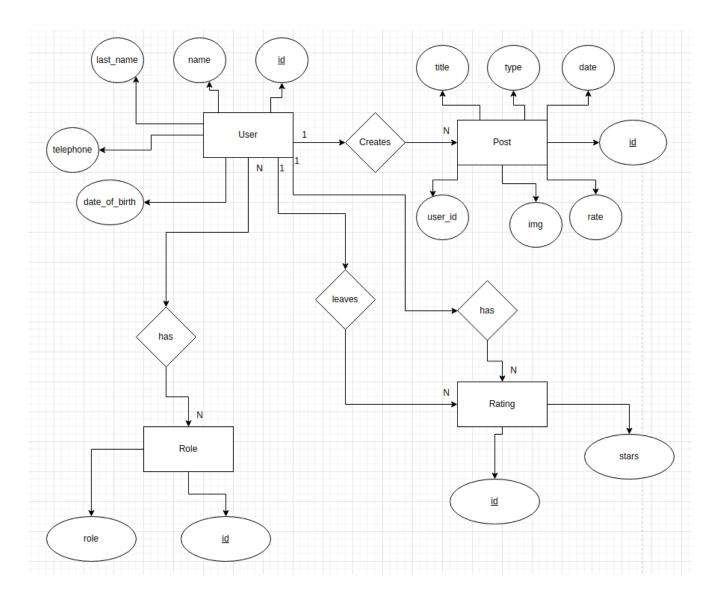
friend

Initiate a chat Yes Yes

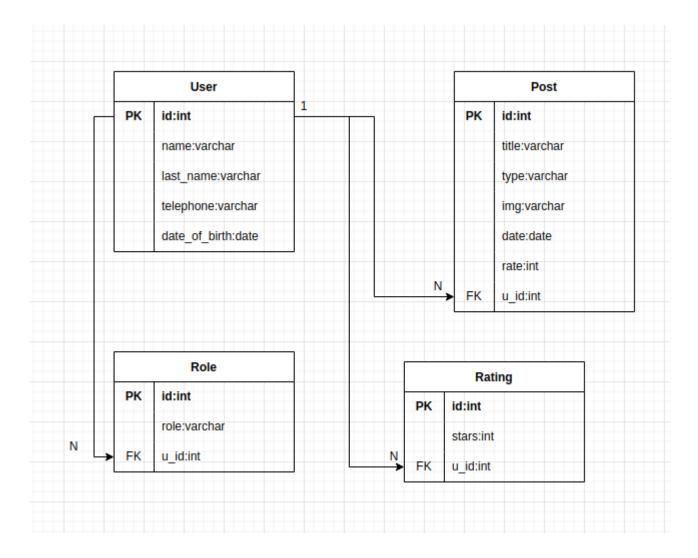
Data dictionary

Entity User	Description User of the system	Attribute id	Type int	Desc. of attr. Identified of the user
Jyste	Jyste	name	varchar(255)	
		last_name	varchar(255)	
		telephone	varchar(15)	Telephone number of the user
		date_of_birth	date	Date of birth of the user
to be	Post offering to be a friend or looking for one		varchar(255)	
			int	Identified of the post
		type	varchar(255)	•
		date	date	Date of creation
		user_id	int	id of the creator
		img	varchar(255)	image of the creator
		rate	int	hourly rate
_	Rating of the user	id	int	Identified of the rating
		stars	int	Rating expressed in stars
Role What kind or role the use has	What kind of role the user	id	int	Identified of the role
		role	varchar(255)	

ER diagram



Relational diagram



Functional decomposition diagram

