

Evaluate your skills in modeling software using the UML (1: beginner, 10: expert)

System is a group of entities/objects interacting with each other that create a behaviour.

Set of instructions that i Herect with a system to 2) Try to define the term Software! create an specific behaviour.

Application of knowlege to solve a problem using digital technologies.

Description on the behaviour of something.

5) What is a design?

Description on how some thing works

- 6) What is a good design?
- 2 por +5:
- It works
- Energone can understand it.

7) Define the term object-oriented programming.
Use of abstract method = to in plement a solution and create code that can be re-used. Ex: Application Form.

8) What do you know about UML?

Lenguage (Diagrams) used to interpret a system and make it understandable to everyone.



9) Which Software- or Systems - Modeling tools do you know?

Visio

Flow charts

10) What was the biggest Software Engineering project you realized?
- number of UML Classes / Components

On't remarker

- number of UML State Machine states

4

- number of code lines

40 K ish / Doit remember

11) State Machine

Describe the main elements of a state machine

- Storting state

- Next state

- Tinal state

- Number of pass ble states

- Exceptions

## 12) Class diagram

Implement a C++ or Java program and specify a class diagram for the following description. A house may have any number of pets living in it. The two possible types of pets that can live in a house are dogs and cats. Each dog or cat has a name. An animal's house is its one and only home. You can tell an animal to make noise and it will do its thing.