

Software Engineering (ISW)

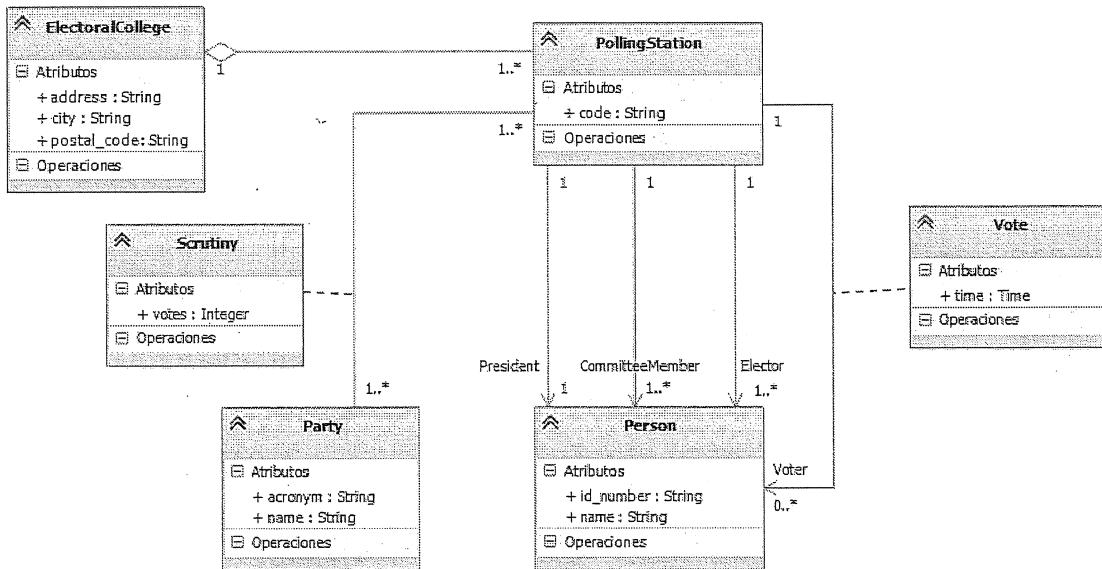
Evaluation. Act 2.

07-01-2015

ETSIInf-UPV

Problems (6 points)

Problem 1. (4 points) ISWSOFT has received a request to develop an application for the elections to manage polling stations and the casted votes. Using the class diagram below answer the following questions:



- (1.5 points) Obtain the Java design (design attributes and constructor declarations) for all the previous classes. Moreover, for the classes **PollingStation**, **Person** and **Vote** write the declaration of the methods to manage all their attributes (DO NOT provide the implementation of these methods, DO NOT provide methods for the remaining classes).
- (1 point) Using the constructors that were previously declared create an initialized system in which there is at least an object for each class (use any arbitrary initial values).
- (1.5 points) Obtain a UML 2.0 Message Sequence Chart to specify the behavior of the use case "List Polling Station Information":

The system requests the code of the polling station and displays the following information:

- The address of the electoral college that the polling station belongs to;
- The id and name of the president and of all the committee members of the polling station;
- The id of each voter and the time at which the vote was casted at the polling station;
- The acronym of each political party and the number of votes obtained at the polling station.

In case the inserted station code belongs to no station, the system will inform the user about the error.