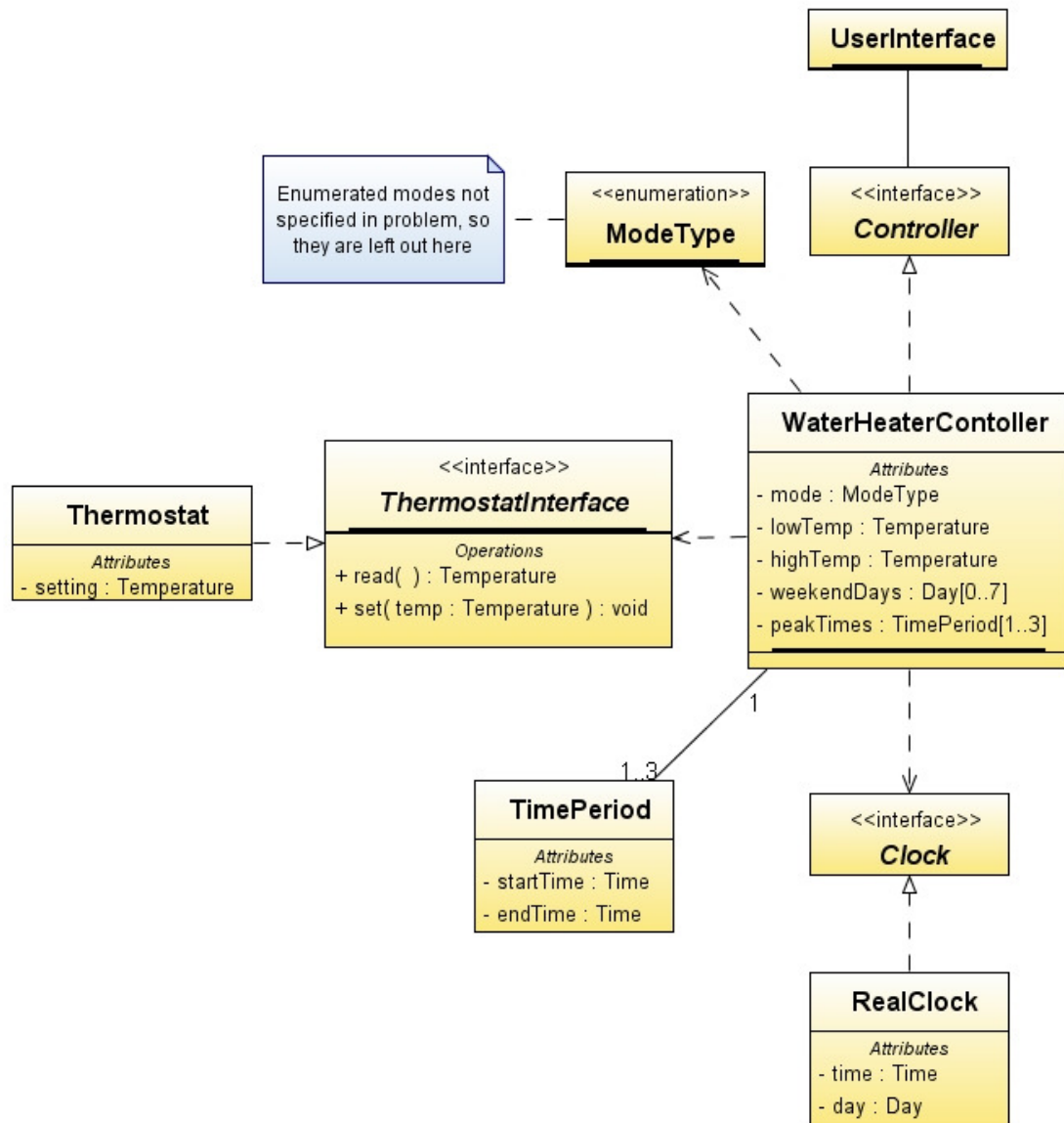


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Homework 6: Chapter 11

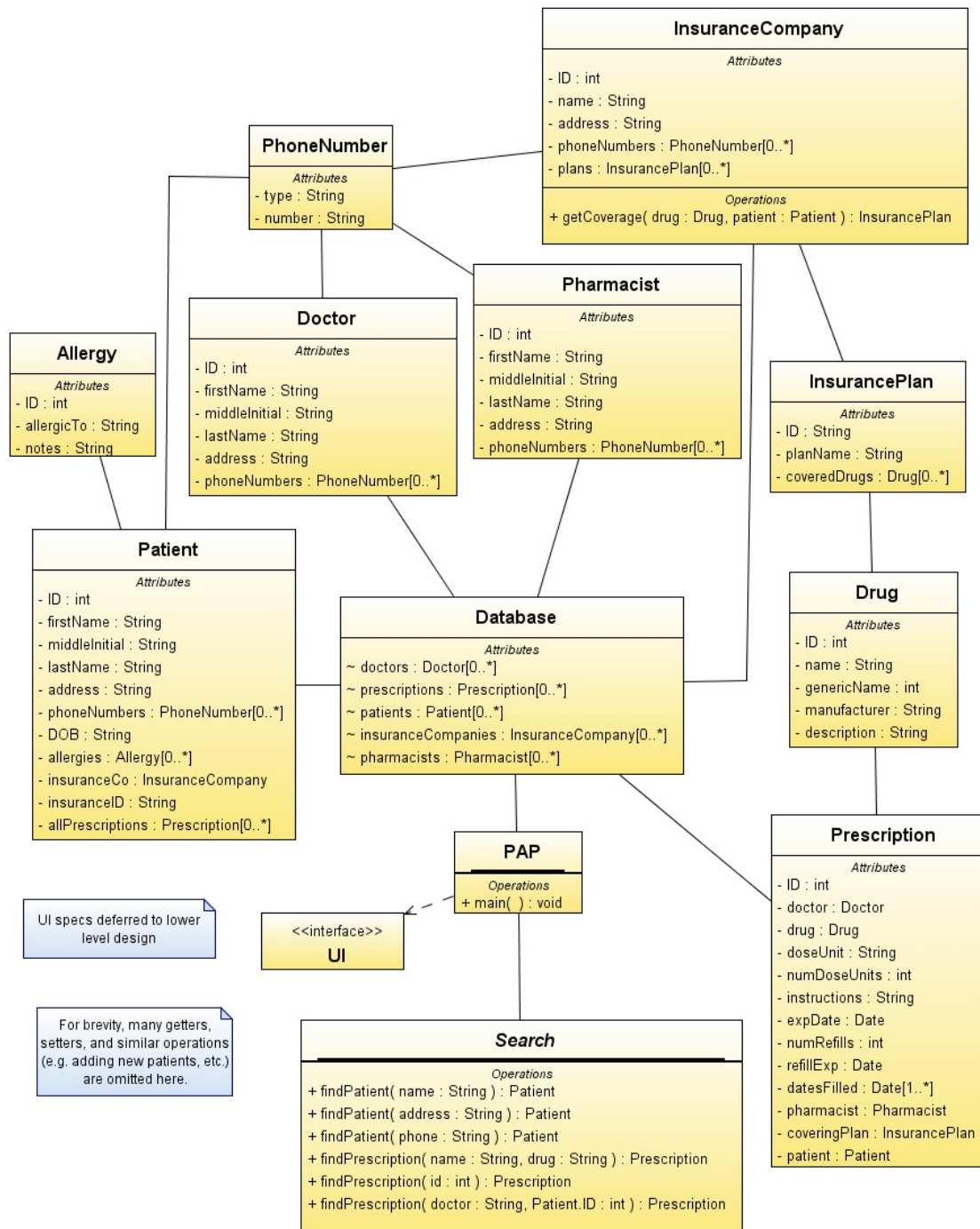
15.



16.

Class	Responsibilities	
	Operational	Data
UserInterface	Allows Homeowner to set Caldera Parameters	
Controller	Interface for WaterHeaterController	
WaterHeaterController		mode (the operational mode the system is currently in)
		lowTemp (the lower bound on the temperature)
		highTemp (the upper bound on the temperature)
		weekendDays (days on which users want hot water available during the day)
		peakTimes (time periods during which hot water use is high)
ThermostatInterface	Interface for Thermostat	
	read (gets the current thermostat's current temperature setting	
	set (sets the thermostat's temperature)	
Thermostat		setting (the current temperature setting
TimePeriod		startTime (the beginning of a TimePeriod
		endTime (the end of a TimePeriod)
Clock	Interface for the RealClock	
RealClock		time (the time of day)
		day (the day of the week)
ModeType		an enumeration of available operation modes

17. PAP Design Class Diagram:



Responsibilities table for PAP

Class	Responsibilities	
	Operational	Data
Doctor		holds relevant data for each doctor*
Patient		holds relevant data for each patient*
InsuranceCompany		holds relevant data for each insurance company*
Pharmacist		holds relevant data for each pharmacist*
InsurancePlan		holds relevant data for each insurance plan*
Prescription		holds relevant data for each prescription*
Allergy		holds information about specific allergies a patient might have*
Drug		holds data about each specific drug sold*
PhoneNumber		holds a phone number and its type (e.g. cell, office)
Database		Maintains a collections of all of the above objects that are in the system
PAP	main entry point of program	
Search	abstract class which provides means to query the database in various ways*	

* see UML class diagram for details about specific attributes

18. I was a little confused by this question. The word “reorganize” in the question implies to me using only the parts originally given. But what is given seems wholly inadequate so I have chosen to add other elements in the hopes of creating a better design. If that was not the intent of the question, hopefully my effort will still show some understanding of the concepts we are learning and still be worth some credit.

