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Module code: PROG212 UML

Module
- -ModuleId : int
- -Code : String
- -Name : String
- -NumberOfCredits : int
- -ClassHoursPerWeek : int
- -NumberOfSelfStudyHoursPerWeek : int
- -NumberOfHours: int
- -remainingHours: int
- -CurrentDate: date
- -SemesterId: int

Class Library
- + User: User
- +SelfStudyHoursPerWeek(int numberOfCredits, int classHoursPerWeek, int numberOfWeeks)
- + GenerateSalt()
- + HashPassword(string password, byte[] salt)
- + VerifyPassword(string enteredPassword, byte[] storedSalt, byte[] storedHashedPassword)
- + ByteArraysEqual(byte[] a1, byte[] a2)

SemesterView
- semester: Semester
- +index
- +Create
- +Edit
- +graph

UserView
- +user:User
- +Register
- +Login

Semester
- -SemesterId:int
- --NumberOfWeeks : int
- -StartDate : date
- +weekStart: int
- -UserId : int

SemesterController
- Semester: Semester
- +Index()
- +Create()

ModuleView
- module: Module
- +index
- +Create
- +Edit

UserController
- +Username : string
- +Password: string
- -Register()
- +Login()

User
- +UserId: int
- +Username: string
- +Password:string
- +Salt:string

ModuleController
- + Username: string
- + Password: string
- -Login()