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| VIRTUAL CAMPUS |
| --admin\_number:integer  -admins[\*]:Administrator  -prof\_number:integer  -proflist[\*]:Professor  -degree\_number:integer  -degreelist[\*]:Degree  -seminar\_number:integer  -seminalist[\*]:Seminar  -currentuser:User\*  -fdp\_number:integer  -projectlist:FDP\* |
| +VirtualCampus()  +~VirtualCampus()  +addDegree()  +addFDP()  +addSeminar()  +addCourse()  +start()  +run()  +end() |

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| DATE |
| -day:integer  -month:integer  -year:integer |
| +Date(d=1: integer, m=1: integer, y=1: integer)  +Date(other: const Date&)  +getday():integer  +setday(d: Integer)  +getmonth():integer  +setmonth(m: integer)  +getyear():integer  +setyear(y: integer) |

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| COURSE |
| -credits:integer  -studentlist[\*]: Link\_us\_res  -degree: Degree\*  -class\_marks[\*]: Mark  -teachers[2]: Link\_us\_res\* |
| +getcredits():integer  +setcredits(int c)  +Course (id="undefined":string, \*d=nullptr: Degree, int c=6, string s="unknown", Link\_us\_res \*\*t=nullptr)  +Course (const Course&)  +Course& operator= (const Course&)  +addUser(User \*newUser) |

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| RESOURCE |
| #identification:string  #status:string |
| +Resource (string id=”undefined”, string s=”unknown”)  +Resource(const Resource&)  +virtual ~Resource()  +virtual Resource& operator= (const Resource &r)  +setIdentification(string id)  +getIdentification():string  +setstatus(string s)  +getstatus():string  +*addUser*(User \*newUser) |

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| MARK |
| -value:integer |
| +Mark()  +setvalue(int v)  +getvalue():integer |

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| ADMINISTRATOR |
| -AdminPtr:Adminisitrator\*  -profesorPtr: Professor\*  -degreePtr: Degree\*  -seminarPtr: Seminar\*  -fdpPtr:FDP\*  -void createUser()  -void createResource() |
| +Administrator()  +Administrator (string ident, const Administrator &admin)  +menu() |

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| PROFESSOR |
| #identifier:string  #coursePtrlist[\*]:Link\_us\_res  #fdpPtrlist[\*]:Link\_us\_res  #seminarPtrlist[\*]:Link\_us\_res\*  #addCourse(Link\_us\_res \*link)  #addSeminar(Link\_us\_res \*link)  #addFDP(Link\_us\_res \*link) |
| +Professor()  + Professor(string ident)  +setidentifier(string ident)  +getidentifier:string  + virtual menu() |

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| DEGREE |
| -name:string  -student\_number:integer  -stulist: Student\*  -course\_number:integer  -courselist:Course\*  -fdp\_number:integer  -projectlist:FDP\* |
| +Degree()  +Degree(string n)  +getname():string  +setname(string n)  +addCourse()  +addStudent()  +addFDP() |

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| STUDENT |
| -SIN:integer  -mydegree: const Degree\*  -mycourses[\*]:Link\_us\_res  -myseminars[\*]:Link\_us\_res  -myfdp: Link\_us\_res\*  -addCourse(Link\_us\_res \*link)  -addSeminar(Link\_us\_res\*link)  -addFDP(Link\_us\_res \*link) |
| +Student(int sin=0)  +Student (int sin, Degree &d)  +Student(const Student &)  +Student& operator=(const Student&)  +getSIN():integer  +setSIN(int s)  +getidentifier():string  +enroll(Resource \*res)  +menu() |

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| USER |
|  |
| +User()  +virtual ~ User()  +*menu()*  +*getidentifier*():string  +virtual addCourse(Link\_us\_res \*link)  +virtual addSeminar(Link\_us\_res \*link)  +virtual addFdp(Link\_us\_res \*link) |

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| SEMINAR |
| -coordinator: Link\_us\_res  -speaker:Link\_us\_res  -d:Date  -seats:integer  -students: Link\_us\_res\* |
| +Seminar()  +setseats(int s)  +getseats():integer  +setdate(Date d2)  +getdate():Date  +addUser(User \*newUser) |

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| LINK\_US\_RES |
| -userPtr: User  -resourcePtr: Resource  -dlink:Date  -partial[4]:Mark  -final:Mark |
| +Link\_us\_res(User \*u=nullptr, Resource \*r:nullptr)  +setdate(Date d3)  +getdate():Date  +connectCourseUser()  +checkUserKind():bool |