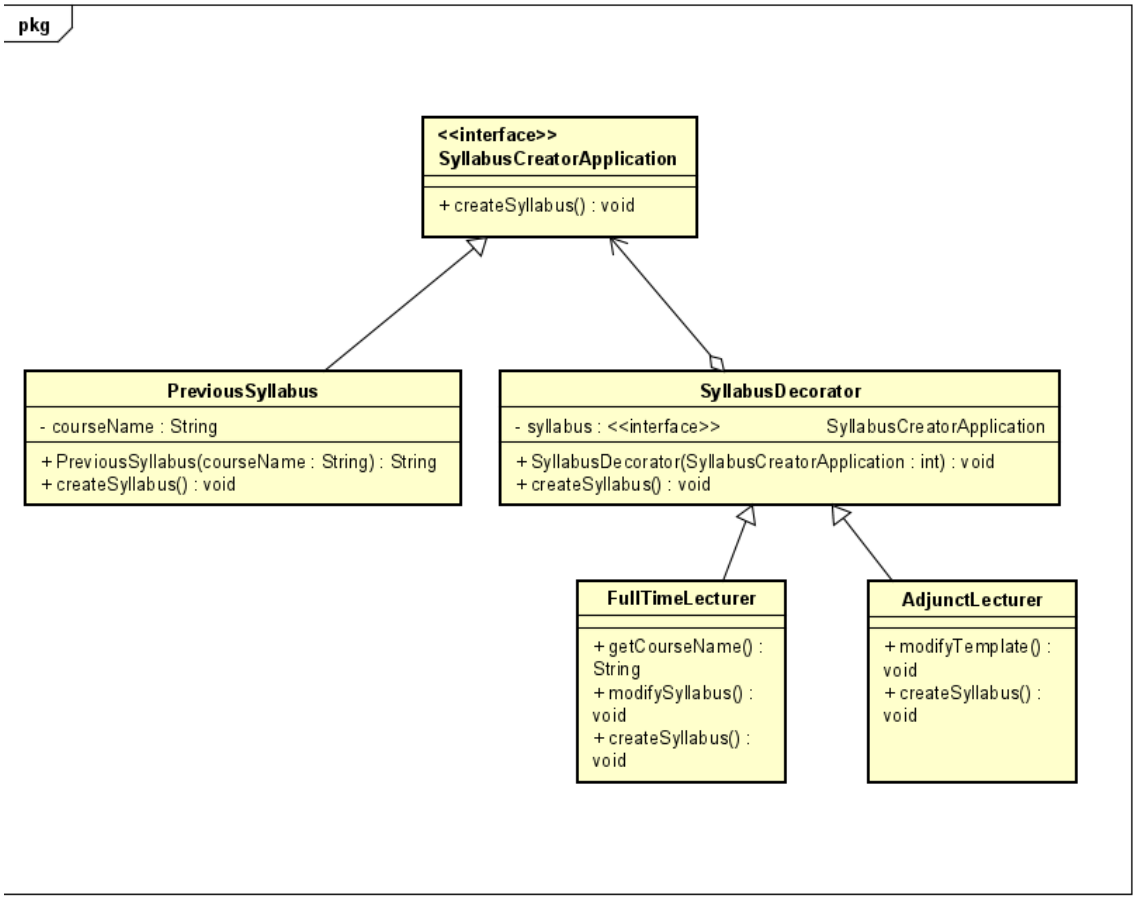
Team 06
Alok Rajpurohit  - Facade Pattern
Debesh Pradhan - Adapter Pattern
Nirmit Agrawal - Singleton Pattern
Harshitha Karur - Builder Pattern
Pavithra Moravaneni - Decorator Pattern

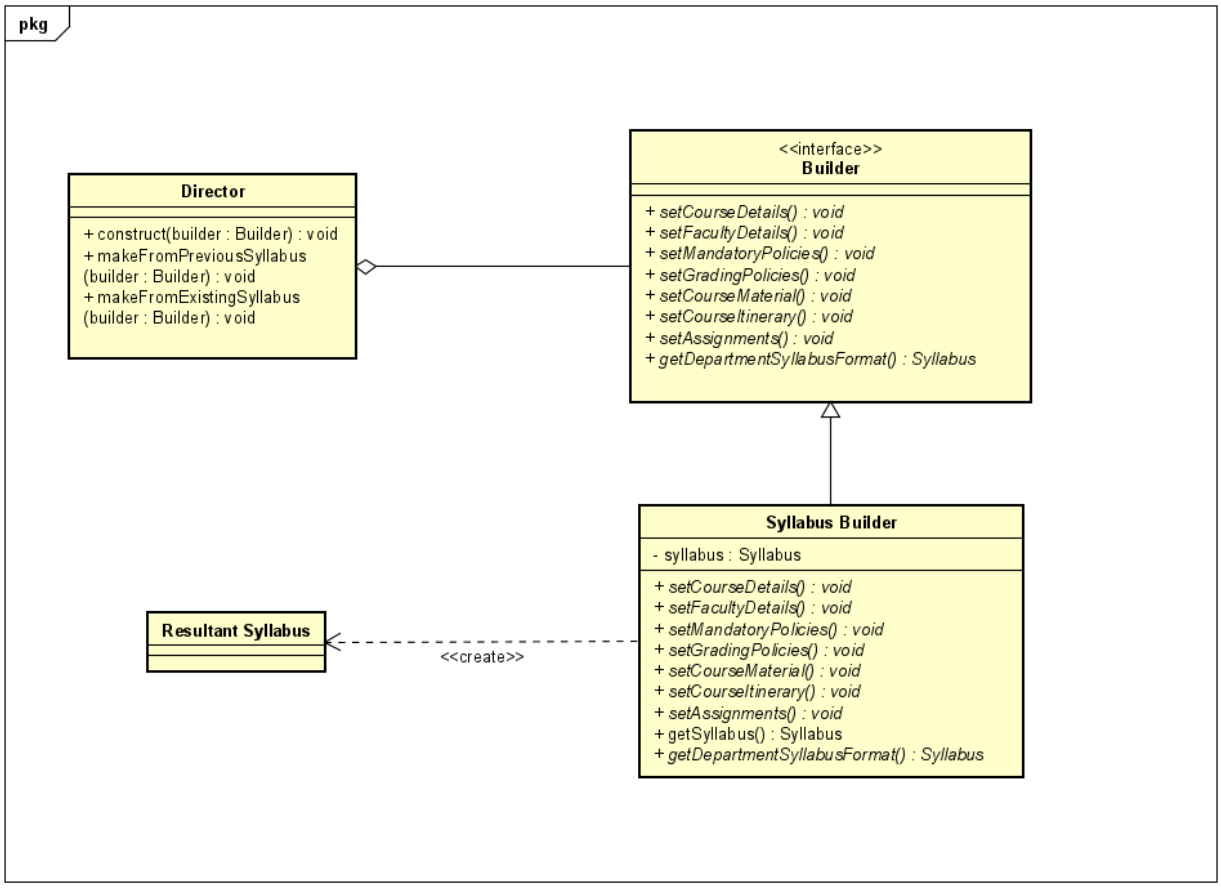
Google Drive Link:- https://drive.google.com/drive/u/1/folders/1n-y-H1Iqrc8iBesFo7lCbRsMGSG_hBLd

Design Patterns

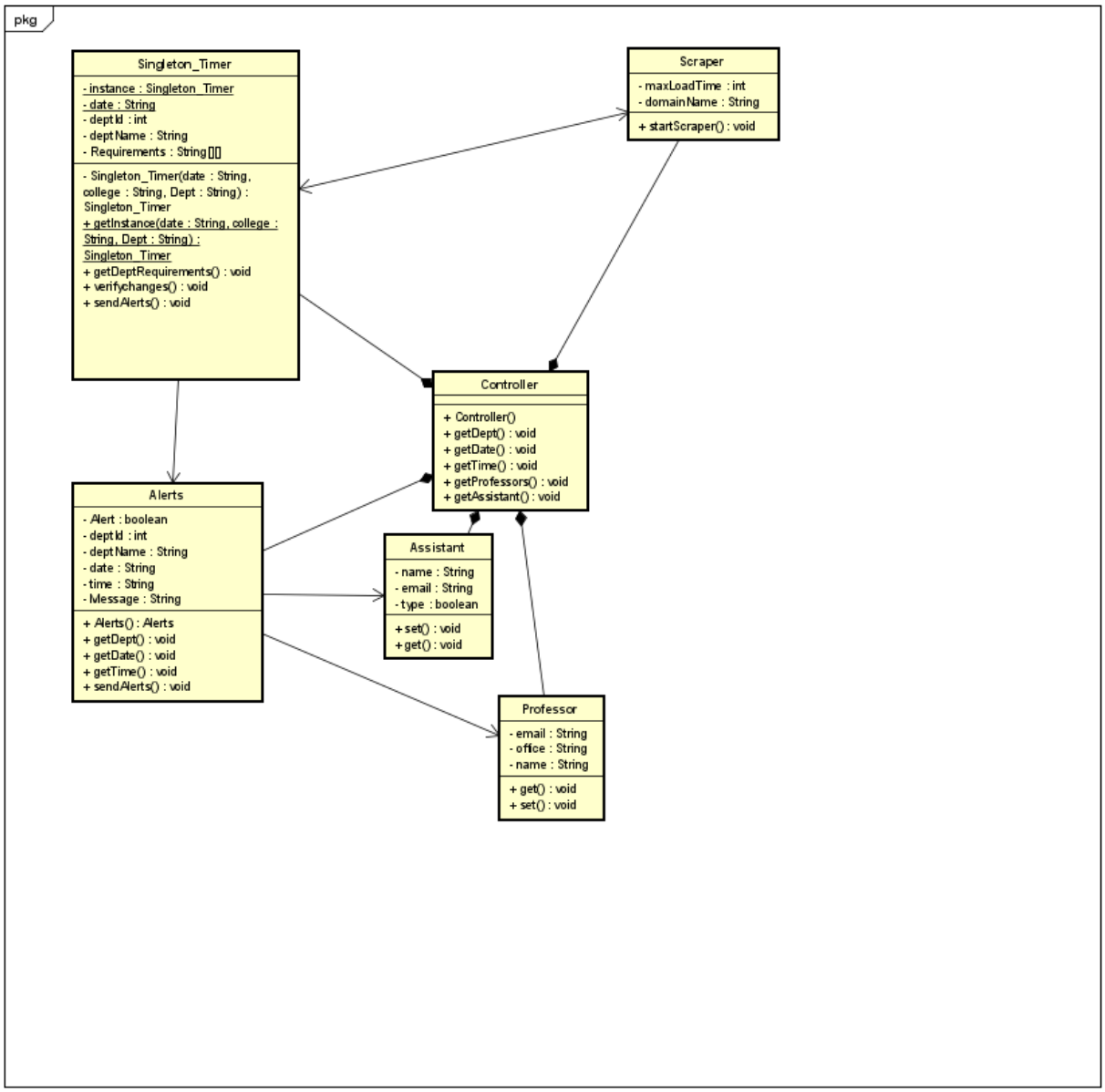
Decorator Pattern (Pavithra Moravaneni):



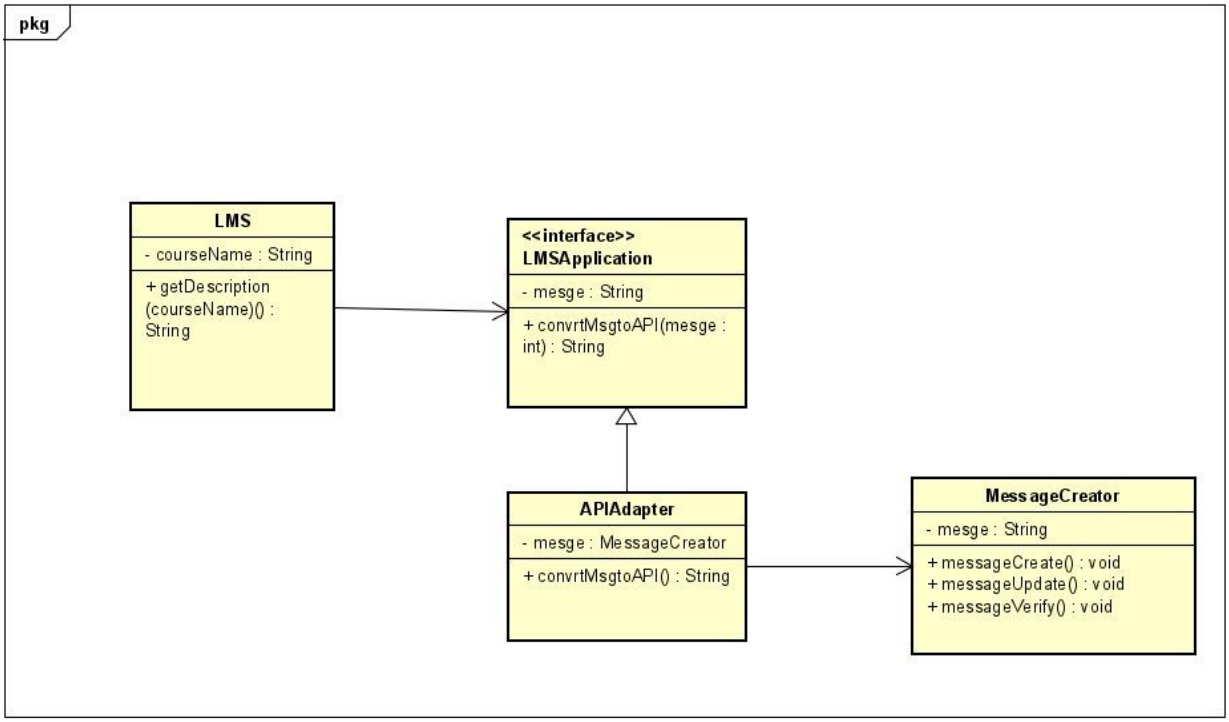
Builder Pattern(Harshitha Karur):



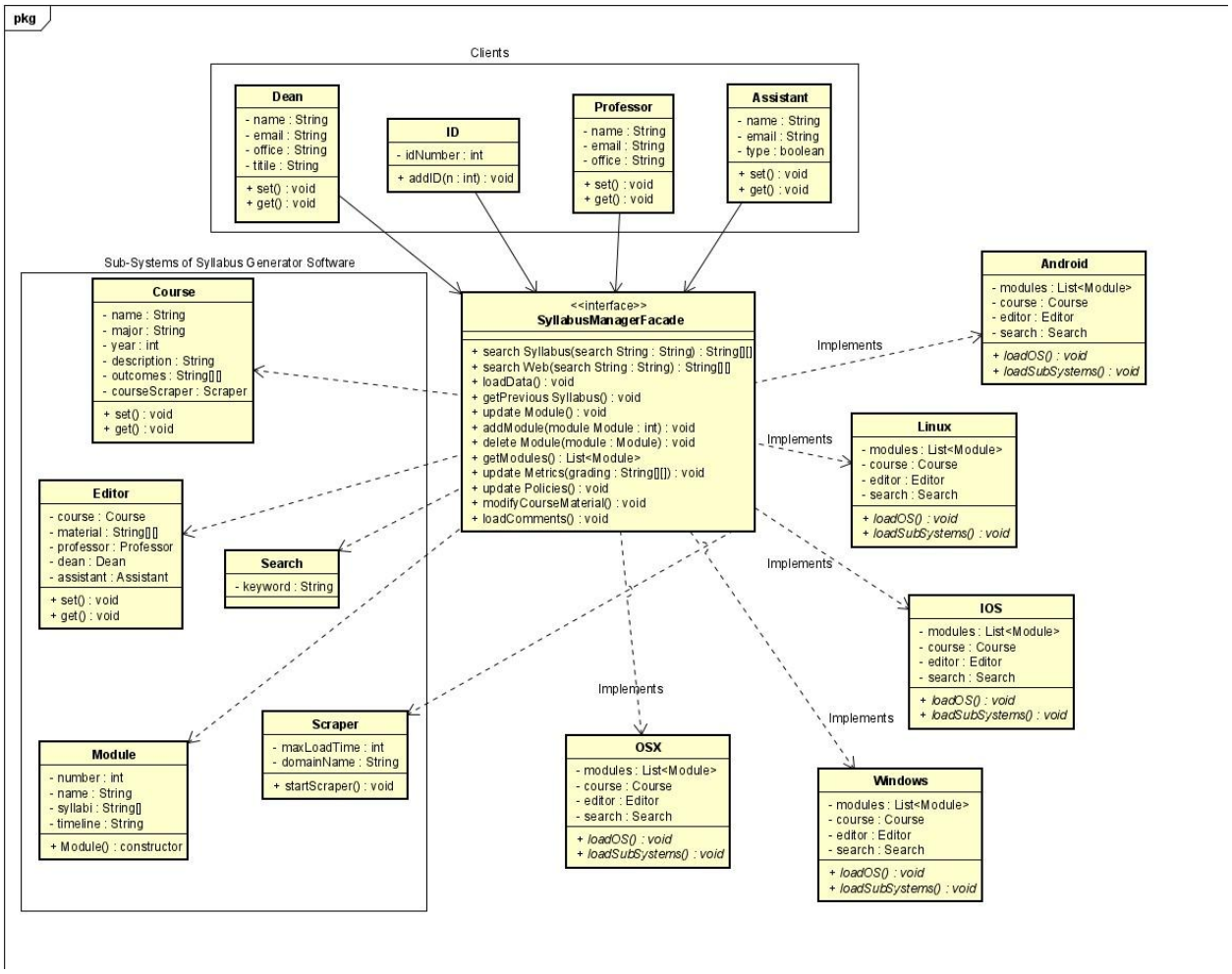
Singleton Pattern (Nirmit Agarwal):



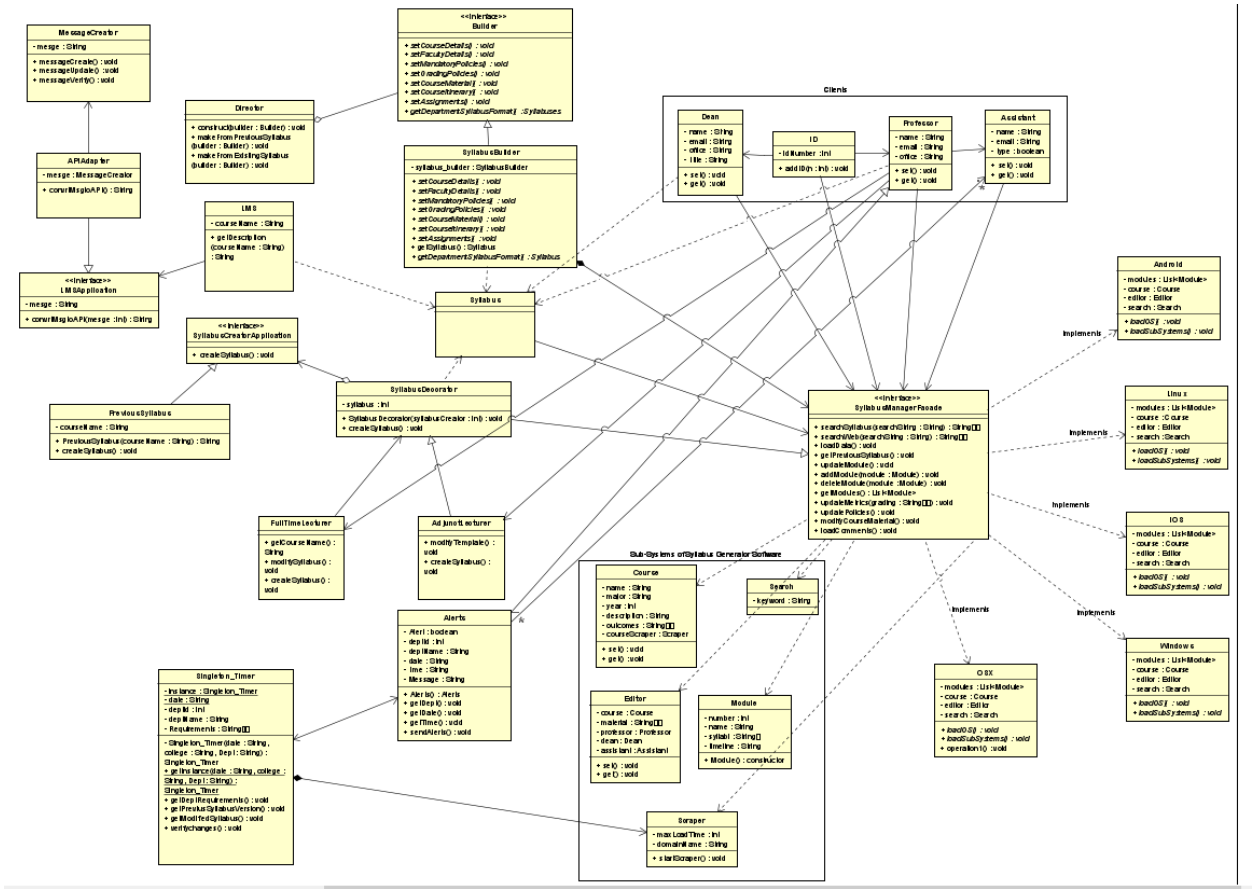
Adapter Pattern (Debesh Pradhan) :




Facade Pattern (Alok Rajpurohit) :




Component Diagram


MessageCreator
- mesge : String
+ messageCreate() : void
+ messageUpdate() : void
+ messageVerify() : void
<<Interface>>
Builder
+ setCourseDetails() : void
+ setFacultyDetails() : void
+ setMandatoryPolicies() : void
+ setGradingPolicies() : void
+ setCourseMaterial() : void
+ setCourseItinerary() : void
+ setAssignments() : void
+ getDepartmentSyllabusFormat() : Syllabuses
Director
+ constructBuilder : Builder() : void
+ make FromPreviousSyllabus (builder : Builder) : void
+ make FromExistingSyllabus (builder : Builder) : void
APIAdapter
- mesge : MessageCreator
+ convertMsgtoAPI() : String
SyllabusBuilder
- syllabus_builder : SyllabusBuilder
+ setCourseDetails() : void
+ setFacultyDetails() : void
+ setMandatoryPolicies() : void
+ setGradingPolicies() : void
+ setCourseMaterial() : void
+ setCourseItinerary() : void
+ setAssignments() : void
+ getSyllabus() : Syllabus
+ getDepartmentSyllabusFormat() : Syllabus
Clients
Dean
- name : String
- email : String
- office : String
- title : String
+ set() : void
+ get() : void
ID
- IdNumber :Int
+ addID(n :Int) : void
Professor
- name : String
- email : String
- office : String
+ set() : void
+ get() : void
Assistant
- name : String
- email : String
- type : boolean
+ set() : void
+ get() : void
LMS
- courseName : String
+ getDescription (courseName : String) : String
<<Interface>>
LMSApplication
- mesge : String
+ convertMsgtoAPI(mesge :Int) : String
Syllabus
<<Interface>>
SyllabusCreatorApplication
+ createSyllabus() : void
SyllabusDecorator
- syllabus : Int
+ SyllabusDecorator(syllabusCreator :Int) : void
+ createSyllabus() : void
PreviousSyllabus
- courseName : String
+ PreviousSyllabus(courseName : String) : String
+ createSyllabus() : void
<<Interface>>
SyllabusManagerFacade
+ searchSyllabus(searchString : String) : String[]
+ searchWeb(searchString : String) : String[]
+ loadData() : void
+ getPreviousSyllabus() : void
+ updateModule() : void
+ addModule(module : Module) : void
+ deleteModule(module : Module) : void
+ getModules() : List<Module>
+ updateMetrics(grading : String[]) : void
+ updatePolicies() : void
+ modifyCourseMaterial() : void
+ loadComments() : void
Implements
Android
- modules : List<Module>
- course : Course
- editor : Editor
- search : Search
+ loadOS() : void
+ loadSubSystems() : void
Linux
- modules : List<Module>
- course :Course
- editor : Editor
- search :Search
+ loadOS() : void
+ loadSubSystems() : void
IOS
- modules : List<Module>
- course : Course
- editor : Editor
- search : Search
+ loadOS() : void
+ loadSubSystems() : void
Windows
- modules : List<Module>
- course : Course
- editor : Editor
- search : Search
+ loadOS() : void
+ loadSubSystems() : void
OSX
- modules : List<Module>
- course : Course
- editor : Editor
- search : Search
+ loadOS() : void
+ loadSubSystems() : void
+ operation10 :void
FullTime Lecturer
+ getCourseName() : String
+ modifySyllabus() : void
+ createSyllabus() : void
Adjunct Lecturer
+ modifyTemplate() : void
+ createSyllabus() : void
Sub-Systems of Syllabus Generator Software
Course
- name : String
- major : String
- year : Int
- description : String
- outcomes : String[]
- courseScraper : Scraper
+ set() : void
+ get() : void
Search
- keyword : String
Alerts
- Alert : boolean
- depId : Int
- depName : String
- date : String
- time : String
- Message : String
+ Alert() : Alerts
+ getDepID() : void
+ getDate() : void
+ getTime() : void
+ sendAlerts() : void
Editor
- course : Course
- material : String[]
- professor : Professor
- dean : Dean
- assistant : Assistant
+ set() : void
+ get() : void
Module
- number : Int
- name : String
- syllabi : String[]
- timeline : String
+ Module() : constructor
Scraper
- maxLoadTime : Int
- domainName : String
+ startScraper() : void
Singleton_Timer
- instance : Singleton_Timer
- date : String
- depId : Int
- depName : String
- Requirements : String[]
- Singleton_Timer(date : String, college : String, Dept : String) : Singleton_Timer
+ getInstance(date : String, college : String, Dept : String) : Singleton_Timer
+ getDeptRequirements() : void
+ getPreviousSyllabusVersion() : void
+ getModifiedSyllabus() : void
+ verifyChanges() : void