Class Diagram - Admission System

<<Java Class>> MainController
controller

- △ msg: String
- △ tabName: String
- △ l: List
- △ lastIdSt: int
- △ lastIdCs: int
- △ lastIdRe: int
- △ lastId: int
- △ editId: int
- △ r: int
- △ mb: ResourceBundle
- △ currentLocale: Locale
- △S ctx: ApplicationContext

- MainController()
- changeENFR(HttpServletRequest,HttpServletResponse):ModelAndView
- displayIndex():ModelAndView
- list(HttpServletRequest,HttpServletResponse):ModelAndView
- findId(HttpServletRequest,HttpServletResponse):ModelAndView
- delete(HttpServletRequest,HttpServletResponse):ModelAndView
- add(HttpServletRequest,HttpServletResponse):ModelAndView
- update(HttpServletRequest,HttpServletResponse):ModelAndView
- addForm(HttpServletRequest,HttpServletResponse):ModelAndView
- editForm(HttpServletRequest,HttpServletResponse):ModelAndView
- email(HttpServletRequest,HttpServletResponse):ModelAndView
- handleAllException(Exception):ModelAndView
- processItemList(List<Item>):List
- buildItemIdTabname(HttpServletRequest):Item
- buildItemFull(HttpServletRequest):Item
- logClassLoaderVars():String

<<Java Interface>> Item
beans

- setId(int):void
- getId():int

~itemList
~inputItem
0..*
0..1

<<Java Class>> Student
beans

- ▫ firstName: String
- ▫ lastName: String
- ▫ startDate: String
- ▫ gender: String
- ▫ id: int

- Student()
- getStartDate():String
- getGender():String
- getId():int
- getFirstName():String
- getLastName():String
- setId(int):void
- setFirstName(String):void
- setLastName(String):void
- setStartDate(String):void
- setGender(String):void
- Student(int,String,String,String,String)

<<Java Class>> Course
beans

- ▫ id: int
- ▫ name: String

- Course(int,String)
- Course()
- getId():int
- getName():String
- setId(int):void
- setName(String):void

<<Java Interface>> Dao
dao

- getAll(String):List
- getId(Item):List
- add(Item):int
- update(Item):int
- delete(Item):int

~dao
0..1

<<Java Class>> ResultProfiler
service

- △ courseId: int
- △ courseName: String
- △ mark1: int
- △ mark2: int
- △ grade: String

- ResultProfiler()
- ResultProfiler(int,String,int,int)
- getCourseId():int
- setCourseId(int):void
- getMark1():int
- setMark1(int):void
- getMark2():int
- setMark2(int):void
- getCourseName():String
- setCourseName(String):void
- getGrade():String
- setGrade(String):void

<<Java Class>> EmailSender
service

- ▫ username: String
- ▫ password: String
- ▫ authKEY: String
- ▫ starttlsKEY: String
- ▫ hostKEY: String
- ▫ portKEY: String
- ▫ authVAL: String
- ▫ starttlsVAL: String
- ▫ hostVAL: String
- ▫ portVAL: String

- EmailSender()
- sendMail(String,String):String
- getUsername():String
- setUsername(String):void
- getPassword():String
- setPassword(String):void
- getAuthKEY():String
- setAuthKEY(String):void

<<Java Class>> DaoHibernate
dao

- ▫ sf: SessionFactory
- ▫ ssn: Session
- ▫ rList: List

- DaoHibernate()
- setSessionFactory(SessionFactory):void
- getAll(String):List<Item>
- getId(Item):List<Item>
- add(Item):int
- delete(Item):int
- update(Item):int

<<Java Class>> Result
beans

- ▫ studentId: int
- ▫ courseId: int
- ▫ mark1: int
- ▫ mark2: int
- ▫ id: int

- Result(int,int,int,int)
- Result()
- getId():int
- setId(int):void
- getStudentId():int
- getCourseId():int
- setStudentId(int):void
- setCourseId(int):void
- getMark1():int
- setMark1(int):void
- getMark2():int
- setMark2(int):void

~validator 0..1

<<Java Class>> InputValidator
service

- ▫S ac: ApplicationContext

- InputValidator()
- validateItemInput(HttpServletRequest,ResourceB...
- validateEmailAddress(HttpServletRequest):boolean
- setApplicationContext(ApplicationContext):void

<<Java Class>> OutputConverter
service

- OutputConverter()
- htmlOut(List<Item>):String