UML for Schedule part

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Schedule

- _iterator: int = 10000_
\# events HashMap<String, List<List<Date>>>
\# scheduleName: String
\# scheduleDate: Stirng
\# author: int
- status: String
\# scheduleID: int
- type: String="Default"(final)

+ Schedule(scheduleName: String, scheduleDate: String, author: int, status: String)
+ _setIterator(iterator: int): void_
+ _checkDateFormat(String startTimeString, String endTimeString): boolean_
+ getEvents(): HashMap<String, List<List<Date>>>
+ setScheduleName(scheduleName: Sring): void
+ getScheduleDate(): String
+ setScheduleDate(scheduleDate: String): void
+ getAuthor(): int
+ getStatus(): String
+ getScheduleID(): int
+ setStatus(status: String): void
+ setEvents(events: HashMap<String, List<List<Date>>>): void
+ getType(): String
+ toString(): String

DailySchedule

- type: String = "Daily"(final)

+ DailySchedule(scheduleName: String, scheduleDate: String, author: int, status: String)
+ getType(): String
+ checkDateFormat(startTimeString: String, endTimeString: String): boolean
+ toString(): String

MonthlySchedule

- type: String = "Monthly"(final)

+ MonthlySchedule(scheduleName: String, scheduleDate: String, author: int, status: String)
+ getType(): String
+ checkDateFormat(startTimeString: String, endTimeString: String): boolean
+ toString(): String

ScheduleSystem

- sm: ScheduleManager
- um: UserManager
- tm: TemplateManager

+ ScheduleSystem(sm: ScheduleManager, um: UserManager, tm: TemplateManager)
+ createSchedule(userID: int, status: String, scheduleName: String, scheduleDate: String, templateID: Integer): boolean
+ deleteSchedule(scheduleID: Integer, userId: Integer): boolean
+ addEvent(userID: int, scheduleID: int, eventName: String, startTimeString: String, endTimeString: String): boolean
+ displayPublicSchedule(): void
+ displayUserSchedule(userID: int): void
+ displayScheduleEvents(scheduleID: Integer, userID: Integer): void
+ deleteEvent(userID: int, scheduleID: int, eventName: String, startTimeString: String, endTimeString: String): boolean

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ScheduleManager

- schedulesList: HashMap<Integer, List<Schedule>>
- scheduleTempMap: HashMap<Integer, Integer>

+ ScheduleManager(schedulesList: HashMap<Integer, List<Schedule>>, scheduleTempMap: HashMap<Integer, Integer>)
+ setIterator(iterator: int) : void
+ getSchedulesList(): HashMap<Integer, List<Schedule>>
+ getScheduleTempMap(): HashMap<Integer, Integer>
+ deleteSchedule(scheduleID: Integer, userID: Integer): boolean
+ changeStatus(scheduleID: Integer, userID: Integer, status: String): void
+ addEvent(scheduleID: int, eventName: String, startTimeString: String, endTimeString: String, t: TemplateManager): boolean
+ validEvent(s: Schedule, t: TemplateManager, DateList: List<Date>): boolean
+ deleteEvent (int scheduleID, String EventName, String startTimeString, String endTimeString) : boolean
+ createSchedule(String status, String scheduleName, String scheduleDate, int author, TemplateManager t, Integer templateId): void
+ getAllUserSchedule(int userID): List<Schedule>
+ getScheduleEvents(Integer scheduleID, Integer userID): HashMap<String, List<List<Date>>>
+ getAllPublicSchedule(): List<Schedule>
+ checkScheduleBelongs(int userID, int scheduleID): boolean
+ isPublic(int scheduleID): boolean
+ getScheduleByID(int scheduleID): Schedule
+ _isDateValid(String date, String dateFormat): void_

ScheduleReadWriter

+ saveScheduleToFile(schedulesList: HashMap<Integer, List<Schedule>>, scheduleTempMap: HashMap<Integer, Integer>): void
+ readScheduleListFromFile(): HashMap<Integer, List<Schedule>>
+ readScheduleTempFromFile(): HashMap<Integer, Integer>