Automated Course Scheduling System

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Version: 1.1

USE CASE NAME:	Create Schedules	**USE CASE TYPE**
USE CASE ID:	2	**Business Requirements:** ☑
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	•	
OTHER INTERESTED STAKEHOLDERS:	•	
SHORT DESCRIPTION:	Creation of the schedules after user chooses the classes to include into the schedule	
PRE-CONDITION:	User selects the number of courses to take	
TRIGGER:	Pressing the “Submit” button	
TYPICAL COURSE OF EVENTS:	**User Action**	**System Response**
	User presses the “Submit” button	
		System loads courses_dict_json file into id_dict
		System loads selected_json file into selected list
		System checks if there are courses for which user selected the particular sections only (“fixed courses”)
		System checks if these courses match keys with the courses from parsed data
		System checks if the courses for which no particular choice of section was made into schedules match keys with the courses from parsed data
		System runs the scheduling algorithm
		System creates the file with schedules “calendar.json”
ALTERNATE COURSES:	Error loading files → Error message and program termination	
	Any selected course has wrong key (not matched with any in parsed data) → Error message and program termination	
	“Fixed” courses have time conflicts → An empty “calendar.json” file is returned	
CONCLUSION:	Schedules are created	
POST-CONDITION:	“calendar.json” file with the created schedules	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:		
OPEN ISSUES:	1.	