

TERM PROJECT

Group : 21

Introduction:

This is an Angular project on javascript that creates weekly schedule from necessary input from user and program finds the way for creating a schedule. We also used TypeScript on this project.

Course Code: CENG206

Course Name: Programming Languages

Instructor: Fahreddin Şükrü TORUN

İsmet GÖKAY

Onur KAHAN

Fatih ÇAKIR

Ahmet Rıza ATEŞ

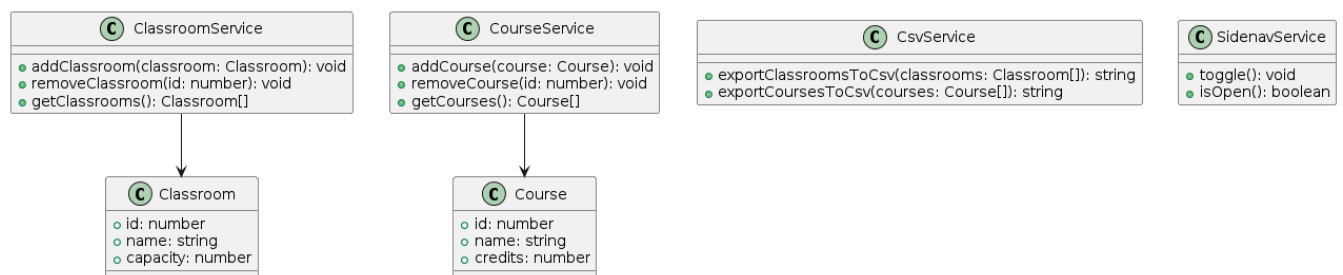
Yusuf AKYÜZ

Gönül Eda KÖKER

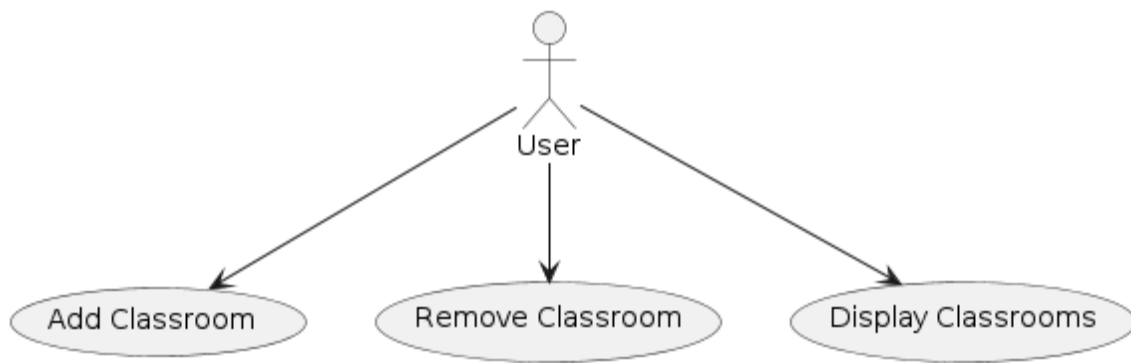
PSEUDOCODE FOR SCHEDULE CREATOR:

```
1 Start
2   For i from 0 to length of schedule
3     For j from 0 to length of schedule[i]
4       If schedule[i][j].course equals null AND hourCount < hours AND isAvailable(i, j, year, instructor)
5         If assignedClassroom equals null
6           assignedClassroom ← getAvailableClassroomWithCapacity(hours, nofstudent, i, j)
7
8         If assignedClassroom exists
9           isClassroomAvailableInAllSchedules ← true
10
11         For each schedule in newSchedules
12           If schedule[i][j].classroom equals assignedClassroom.name
13             isClassroomAvailableInAllSchedules ← false
14             Break
15
16         If isClassroomAvailableInAllSchedules
17           If schedule[i][j + 1] exists AND schedule[i][j + 1].course equals null AND isAvailable(i, j + 1, year, instructor)
18             consecutiveHours ← consecutiveHours + 1
19           Else
20             consecutiveHours ← 0
21
22         If consecutiveHours equals hours
23           For k from 0 to hours
24             schedule[i][j - k] ← { course: courseCode, classroom: assignedClassroom.name }
25
26         hourCount ← hourCount + hours
27         assignedClassroom ← null
28         consecutiveHours ← 0
29 End
```

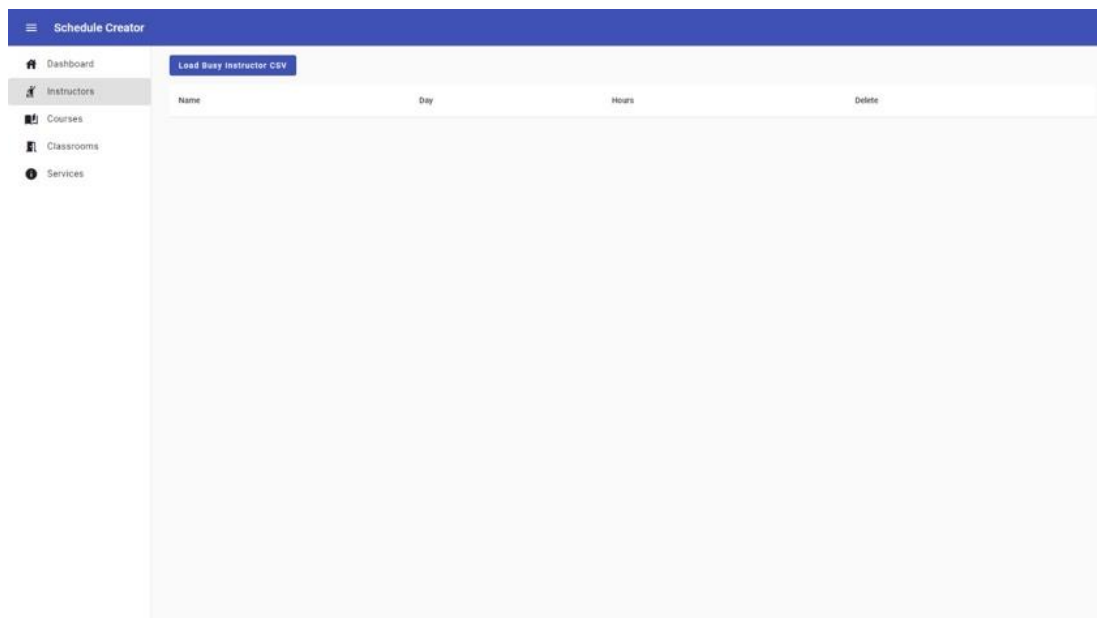
CLASS DIAGRAM:



USE CASE DIAGRAM:



USER INTERFACE:



Schedule Creator

Dashboard

Instructors

Courses

Classrooms

Services

Load Busy Instructor CSV

Name	Day	Hours	Delete
OGR.GOR.YUSUF EVREN AYKAC	Monday	8:30;9:30;11:30;12:30;15:30	
DOC.DR.NURAY CELEBI	Monday	8:30;9:30;12:30;13:30;14:30	
PROF.DR.FATİH DEMİRCİ	Monday	8:30;9:30;10:30;11:30;12:30;13:30;14:30;15:30;16:30	

Schedule Creator

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Services

Create Schedule

Print Schedule

First Year

LESSONS / TIMES	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-13:30	13:30-14:30	14:30-15:30	15:30-16:30
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								

Second Year

LESSONS / TIMES	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-13:30	13:30-14:30	14:30-15:30	15:30-16:30
Monday								
Tuesday								
Wednesday								
Thursday								

Schedule Creator

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Load Busy Instructor CSV

Name	Day	Hours	Delete
OGR.GOR.YUSUF EVREN AYKAC	Monday	8:30;9:30;11:30;12:30;15:30	
PROF.DR.FATİH DEMİRCİ	Monday	8:30;9:30;10:30;11:30;12:30;13:30;14:30;15:30;16:30	

Schedule Creator

Dashboard

Instructors

Courses

Classrooms

Services

Load Course CSV

Code	Name	Year	Credit	Core	Dors	No F Student	Instructor	Hours	Delete
CEN0114	Computer Programming II	1	5	C	D	95	OGR.DOR. YUSUF EVREN AYYKAC	3	
CHEM101	GENERAL CHEMISTRY	1	5	C	S	110	DOC.DR. NURAY CELEBI	3	
MATH104	Applied Linear Algebra	1	5	C	D	103	DOC.DR. MUHAMMED ABDULLAH BULBUL	3	
MATH102	CALCULUS II	1	6	C	S	116	DR. OGR. UYESI SELIM BAHADIR	3	
MATH106	PROBABILITY AND STATISTICS	1	6	C	S	79	DR. OGR. UYESI OSMAN SERDAR GEDIK	3	
PHYS102	PHYSICS II	1	6	C	S	113	PROF.DR. ABDULLAH YILDIZ	3	
TDL102	TURK DILI II	1	1	C	S	72	DOC.DR. MUSTAFA ARSLAN	3	
TIT101	TURK INKILAP TARİHİ I	1	1	C	S	101	DR. OGR. UYESİ TEKİN ONAL	3	
CEN0202	Data Structures	2	5	C	D	99	DR. OGR. UYESİ İMRAFAT UR REHMAN	3	
CEN0204	Computer System Architecture	2	5	C	D	86	DR. OGR. UYESİ TAREK NAJJAR	3	
CEN0206	Programming Languages	2	5	C	D	135	DR. OGR. UYESİ FAHREDDİN SÜKRÜ TORUN	2+1	
ENGR0202	ENGINEERING MATHEMATICS II	2	6	C	S	104	DR. OGR. UYESİ SELİM BAHADIR	3	
ENGR0254	PRINCIPLES OF BODY MOVEMENT	2	3	E	S	50	DR. OGR. UYESİ ÖZKAN KILIC	3	
CEN0302	Formal Languages and Automata Theory	3	5	C	D	86	DR. OGR. UYESİ FADİ YILMAZ	2+1	
CEN0304	Computer Networks	3	5	C	D	93	DR. OGR. UYESİ MUSTAFA YENİAD	3	
CEN0306	Software Engineering	3	5	C	D	109	DOC.DR. FATİH NAR	3	
CEN0310	Human Computer Interaction	3	5	E	D	30	DR. OGR. UYESİ MUHAMMED ABDULLAH BULBUL	3	

Schedule Creator

Dashboard

Instructors

Courses

Classrooms

Services

Load Course CSV

Code	Name	Year	Credit	Core	Dors	No F Student	Instructor	Hours	Delete
CEN0114	Computer Programming II	1	5	C	D	95	OGR.DOR. YUSUF EVREN AYYKAC	3	
MATH104	Applied Linear Algebra	1	5	C	D	103	DOC.DR. MUHAMMED ABDULLAH BULBUL	3	
PHYS102	PHYSICS II	1	6	C	S	113	PROF.DR. ABDULLAH YILDIZ	3	
TDL102	TURK DILI II	1	1	C	S	72	DOC.DR. MUSTAFA ARSLAN	3	
CEN0202	Data Structures	2	5	C	D	99	DR. OGR. UYESİ İMRAFAT UR REHMAN	3	
CEN0204	Computer System Architecture	2	5	C	D	86	DR. OGR. UYESİ TAREK NAJJAR	3	
CEN0206	Programming Languages	2	5	C	D	135	DR. OGR. UYESİ FAHREDDİN SÜKRÜ TORUN	2+1	
ENGR0202	ENGINEERING MATHEMATICS II	2	6	C	S	104	DR. OGR. UYESİ SELİM BAHADIR	3	
ENGR0254	PRINCIPLES OF BODY MOVEMENT	2	3	E	S	50	DR. OGR. UYESİ ÖZKAN KILIC	3	
CEN0302	Formal Languages and Automata Theory	3	5	C	D	86	DR. OGR. UYESİ FADİ YILMAZ	2+1	
CEN0306	Software Engineering	3	5	C	D	109	DOC.DR. FATİH NAR	3	
CEN0310	Human Computer Interaction	3	5	E	D	30	DR. OGR. UYESİ MUHAMMED ABDULLAH BULBUL	3	

Schedule Creator

Load Classroom CSV

Name	Day	Delete
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Schedule Creator

Load Classroom CSV

Name	Day	Delete
B403	100	<div></div>
C501	60	<div></div>
B503	120	<div></div>
C408	52	<div></div>
B444	120	<div></div>
C534	90	<div></div>
B311	120	<div></div>
C208	82	<div></div>
C208	250	<div></div>
C103	150	<div></div>
B515	140	<div></div>

Schedule Creator

Load Classroom CSV

Name	Day	Delete
B403	100	<div></div>
C501	60	<div></div>
		<div></div>
C408	52	<div></div>
		<div></div>
C534	90	<div></div>
		<div></div>
C208	82	<div></div>
		<div></div>
C103	150	<div></div>
B515	140	<div></div>

Schedule Creator

Load Service CSV

Name	Day	Hours	Delete
CHEM101	Tuesday	8:30,9:30,10:30	<div></div>
MATH102	Monday	13:30,14:30,15:30	<div></div>
MATH106	Thursday	12:30,14:30,15:30	<div></div>
PHYS102	Friday	8:30,9:30,10:30	<div></div>
TDL182	Wednesday	13:30,14:30,15:30	<div></div>
TIT131	Wednesday	8:30,9:30,10:30	<div></div>
ENG202	Tuesday	8:30,9:30,10:30	<div></div>
ENG234	Tuesday	13:30,14:30,15:30	<div></div>

Schedule Creator

Load Service CSV

Name	Day	Hours	Delete
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First Year								
LESSONS / TIMES	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-13:30	13:30-14:30	14:30-15:30	15:30-16:30
Monday	MATH104(C208)	MATH104(C208)	MATH104(C208)	EMPTY	EMPTY	MATH102(C103)	MATH102(C103)	MATH102(C103)
Tuesday	CHEM101(B503)	CHEM101(B503)	CHEM101(B503)	CENG114(B311)	CENG114(B311)	CENG114(B311)	EMPTY	EMPTY
Wednesday	TIT101(C208)	TIT101(C208)	TIT101(C208)	EMPTY	EMPTY	TOL102(B311)	TOL102(B311)	TOL102(B311)
Thursday	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	MATH104(C208)	MATH104(C208)	MATH104(C208)
Friday	PHYS102(B515)	PHYS102(B515)	PHYS102(B515)	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

Second Year								
LESSONS / TIMES	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-13:30	13:30-14:30	14:30-15:30	15:30-16:30
Monday	CENG202(B403)	CENG202(B403)	CENG202(B403)	CENG204(B515)	CENG204(B515)	CENG204(B515)	EMPTY	EMPTY
Tuesday	ENGR202(B515)	ENGR202(B515)	ENGR202(B515)	EMPTY	EMPTY	ENGR254(C208)	ENGR254(C208)	ENGR254(C208)
Wednesday	EMPTY	EMPTY	EMPTY	CENG206(C208)	CENG206(C208)	EMPTY	EMPTY	EMPTY
Thursday	EMPTY	EMPTY	EMPTY	EMPTY	CENG204(C208)	EMPTY	EMPTY	EMPTY
Friday	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

Schedule Creator

Load Service CSV

Name	Day	Hours	Delete
MATH102	Monday	13:30,14:30,15:30	<div></div>
PHYS102	Friday	8:30,9:30,10:30	<div></div>
TIT101	Wednesday	8:30,9:30,10:30	<div></div>
ENGR202	Tuesday	8:30,9:30,10:30	<div></div>
ENGR254	Tuesday	13:30,14:30,15:30	<div></div>

Third Year								
LESSONS / TIMES	8.30-9.20	9.30-10.20	10.30-11.20	11.30-12.20	12.30-13.20	13.30-14.20	14.30-15.20	15.30-16.20
Monday	CEN6302(B302)	CEN6303(B303)	CEN6304(B311)	CEN6304(B311)	CEN6304(B311)	CEN6342(C206)	CEN6342(C206)	EMPTY
Tuesday	EMPTY	CEN6302(B303)	EMPTY	CEN6306(B303)	CEN6306(B303)	CEN6306(B303)	CEN6342(C206)	EMPTY
Wednesday	CEN6310(C301)	CEN6310(C301)	CEN6310(C301)	CEN6311(C301)	CEN6311(C301)	CEN6311(C301)	EMPTY	EMPTY
Thursday	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY
Friday	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

Fourth Year								
LESSONS / TIMES	8.30-9.20	9.30-10.20	10.30-11.20	11.30-12.20	12.30-13.20	13.30-14.20	14.30-15.20	15.30-16.20
Monday	CEN6404(B315)	CEN6404(B315)	CEN6404(B315)	CEN6411(C334)	CEN6415(C334)	CEN6428(B303)	CEN6428(B303)	EMPTY
Tuesday	CEN6424(C334)	CEN6424(C334)	CEN6424(C334)	EMPTY	CEN6415(C334)	EMPTY	CEN6428(B303)	EMPTY
Wednesday	CEN6402(C103)	CEN6402(C103)	CEN6402(C103)	CEN6403(C406)	CEN6403(C406)	CEN6403(C406)	EMPTY	EMPTY
Thursday	CEN6427(C301)	CEN6427(C301)	CEN6427(C301)	EMPTY	CEN6411(C206)	CEN6431(C206)	CEN6431(C206)	EMPTY
Friday	CEN6441(C301)	CEN6441(C301)	CEN6441(C301)	CEN6474(B311)	CEN6474(B311)	CEN6474(B311)	EMPTY	EMPTY