



HP's *Web in Progress* Contest Application

Team: **Alex Eftimie, Sergiu Iordache, Irina Preșă**

License: **GPL v3 (GNU Public License, version 3)**

Website: **<http://labremote.korect.ro>**



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Introduction - Problem

- ✓ Attendance sheets
- ✓ Variable groups
- ✓ Flexible timetable
- ✓ Holidays
- ✓ Moodle

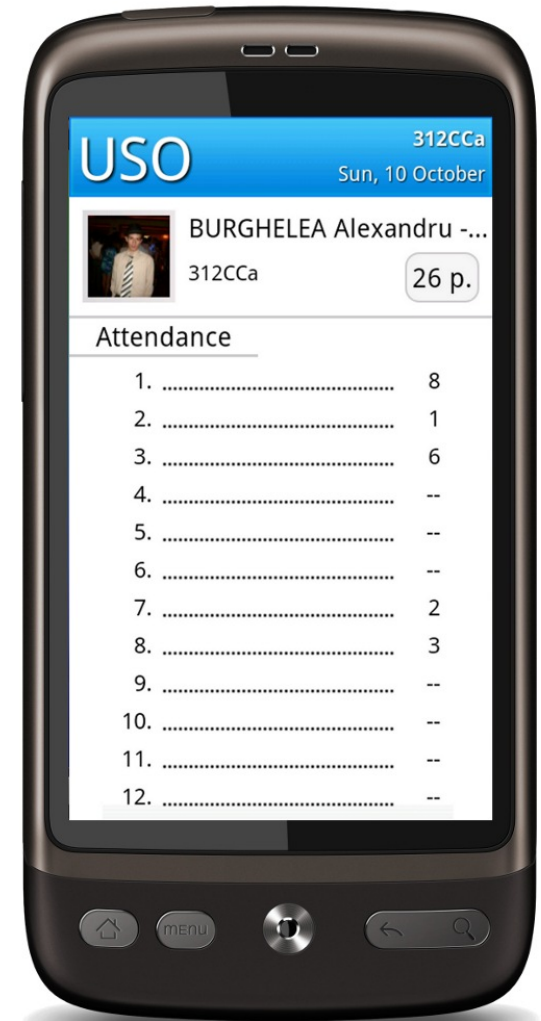
S02 kernel crunch Asistent RA Laborator 5 Dată/oră 14-16

Nr	Nume și prenume	Grupă	Activitate
✓ 1	IOGARU VLAD	342C3 all	11
✓ 2	POPEA TRAIAN - ANDREI	342C318	7.5
✓ 3	MACICAS TEODOR	343C3 all	8.5
✓ 4	DIU DANIEL	343C3 LT	
✓ 5	POBESCU ALIN	343C3 all	
✓ 6	CRIGAN DAN	347C3 all	
✓ 7	CALINA VLAD IULIAN	343C4 all	
✓ 8	GRIGOROPOL IOANA	341C3 all	
✓ 9	AGAPE ALEXANDRU	341C3 all	
✓ 10	OPREA IGHUT	344C4 all	
✓ 11	CIOBANU RAU-IOAN	344C4 all	
✓ 12	TARAS DAN		
13			
14			
15			



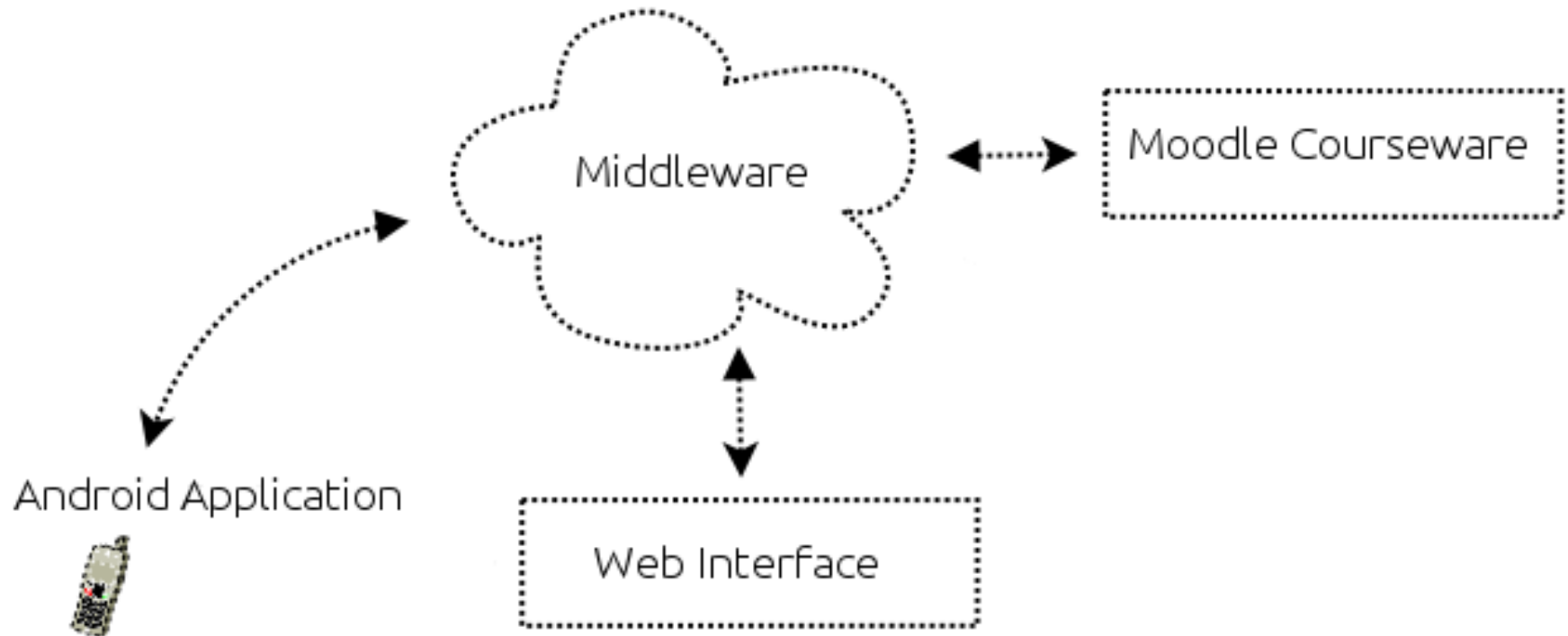
Introduction - Solution

- ✓ Android Application
- ✓ Web Server/ Web Interface
- ✓ Synchronization
- ✓ Grading
- ✓ Import/Export





How does it work





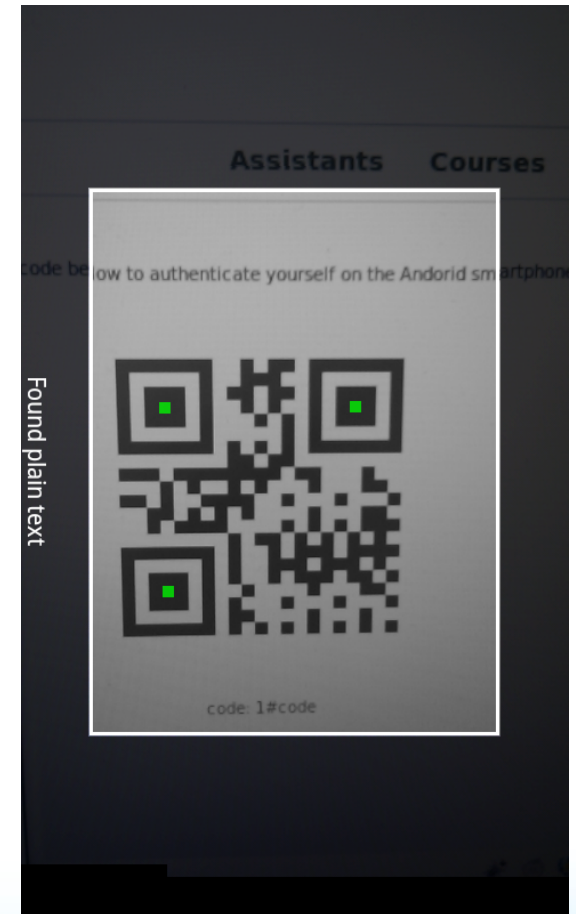
Architecture

- ✓ API: REST, signed calls
- ✓ Data: Student, Group, Course, Assistant, Activity
- ✓ Smartphone (simple): view/grade
- ✓ Web browser (advanced): group/timetable editing, import, export



Technologies

- ✓ Web: Django, cURL
- ✓ Android: Android SDK, QR Barcodes
- ✓ Development: github, dropbox
- ✓ Project Management: iterative
- ✓ Testing: unit testing





Middleware

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Dashboard

[Timetable](#)

[Groups](#)

[Students](#)

[Assistants](#)

[Courses](#)

Dashboard

Assistant: Alex Eftimie

Course: USO

Groups: **312CCa**

Today

Current week: 3 (41) Inactive: Week is inactive (e.g. in holiday)

Current group: *None*

Timetable

	m	t	w	t	f	sa	su
8:00			312CCa				
9:00							
10:00							
11:00							
12:00							
13:00							
14:00				311CAa			
15:00							
16:00							
17:00							
18:00							
19:00							

Scan the code below to authenticate yourself on the Andorid smartphone



code: 1#code



Middleware (2)

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[Dashboard](#)

[Timetable](#)

[Groups](#)

[Students](#)

[Assistants](#)

[Courses](#)

Timetable

[Add more activities](#)

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8			312CCa 08:00-10:00 Edit Delete				
10							
12							
14				311CAa 14:00-16:00 Edit Delete			
16							
18							



Middleware (3)

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Grades for group 312CCa

Attendance for activity during 08:00-10:00 on Wednesday

Show week layout

Tip: click on any of the grades to edit them!

Image	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Sum
	BOJIN Andrei Florian	0	2	0	0	0	0	0	3	0	0	4	0	0	0	9
	BURGHELEA Alexandru - George	0	0	0	0	0	0	0								
	ASĂVOAEI Andrei-Ştefan	0	0	0	0	0	0	0								
	BRAD Florin - Mărgărit	0	0	0	0	0	0	0								

Actual weeks:

Week no.	Day start	Day end
1	20-09-2010	27-09-2010
2	27-09-2010	04-10-2010
3	04-10-2010	11-10-2010
4	11-10-2010	18-10-2010
5	18-10-2010	25-10-2010
6	25-10-2010	01-11-2010
7	01-11-2010	08-11-2010
8	08-11-2010	15-11-2010
9	15-11-2010	22-11-2010
10	22-11-2010	29-11-2010



Middleware (4)

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[Dashboard](#)

[Timetable](#)

[Groups](#)

[Students](#)

[Assistants](#)

[Courses](#)

Groups

LabRemote:

group						
312Ca Students: 10	Students	Edit attendances	Export as CSV	Public link	Edit	Delete
311Ca Students: 10	Students	Edit attendances	Export as CSV	Public link	Edit	Delete

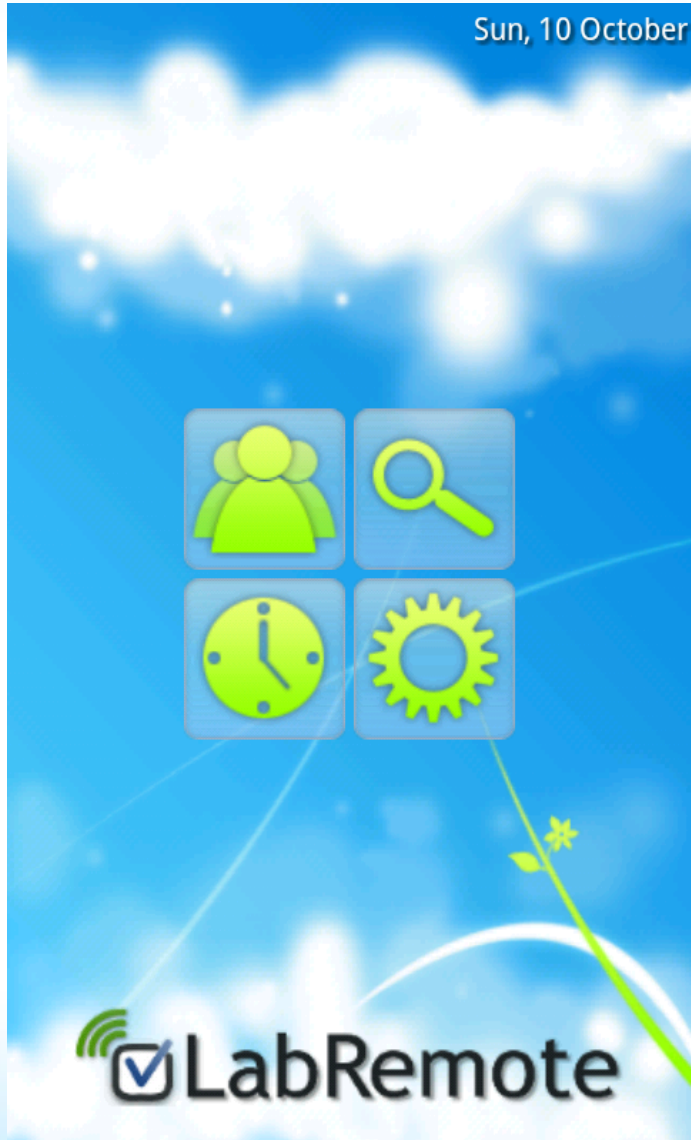
[Add a new group](#)







Moodle:

group
311CA
311CC
312CA
312CB
312CC
313CA
313CB
313CC
314CA
314CB
314CC
315CA
315CB
Seria CB



Android



USO		312CCa
		Mon, 20 September [1]
	BOJIN Andrei Florian	8
	BURGHELEA Alexandru ...	--
	ASĂVOAEI Andrei-Ștefan	3
	BRAD Florin - Mărgărit	5
	CHIȚESCU Adrian	--
	COSTEA Maria-Andrada	3



Android (2)

LabRemote Settings

Host Address

Login code ★

Click here to load a new code.



Current course



USO

Sun, 10 October

Select day of the week

▼ Monday

312CCa 08:00-10:00

> Tuesday

> Wednesday

> Thursday

> Friday

> Saturday

> Sunday



Conclusions

- ✓ Complet Project from scratch:
documentation, development, testing, promoting
- ✓ Team work
 - ✓ Sergiu: documentation, middleware
 - ✓ Alex: middleware, import
 - ✓ Irina: API, Android App
- ✓ Results :)

