COURSE ORGANISATION LINGI 2255

2017-2018 PROF. KIM MENS

MOODLEUCL.UCLOUVAIN.BE COURSE: LING12255

- **%6 ECTS**
- **30h** + 30h

 30h + 30h
- * Master: INFO2M, SINF2M, SINF2M1
- ** Language: English

Course website: (will open soon)



- ** https://moodleucl.uclouvain.be/course/view.php?id=7599
- * official course announcements, deadlines and deliverables
- - We'll use Slack as our communication medium
 - ** Slack is a messaging app for development teams
 - * https://lingi2255project.slack.com



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- ** This project consists of the development of a realistic application, representative of a typical industrial software system, under semi-professional working conditions.
- The topic of the software system to be constructed is proposed by a non-profit organisation who participates in the organisation and evaluation of this course.
- The project will be carried out by teams of 6 to 8 students, each supervised by an assistant.
- **Communication** among team and with client is crucial.

Client:

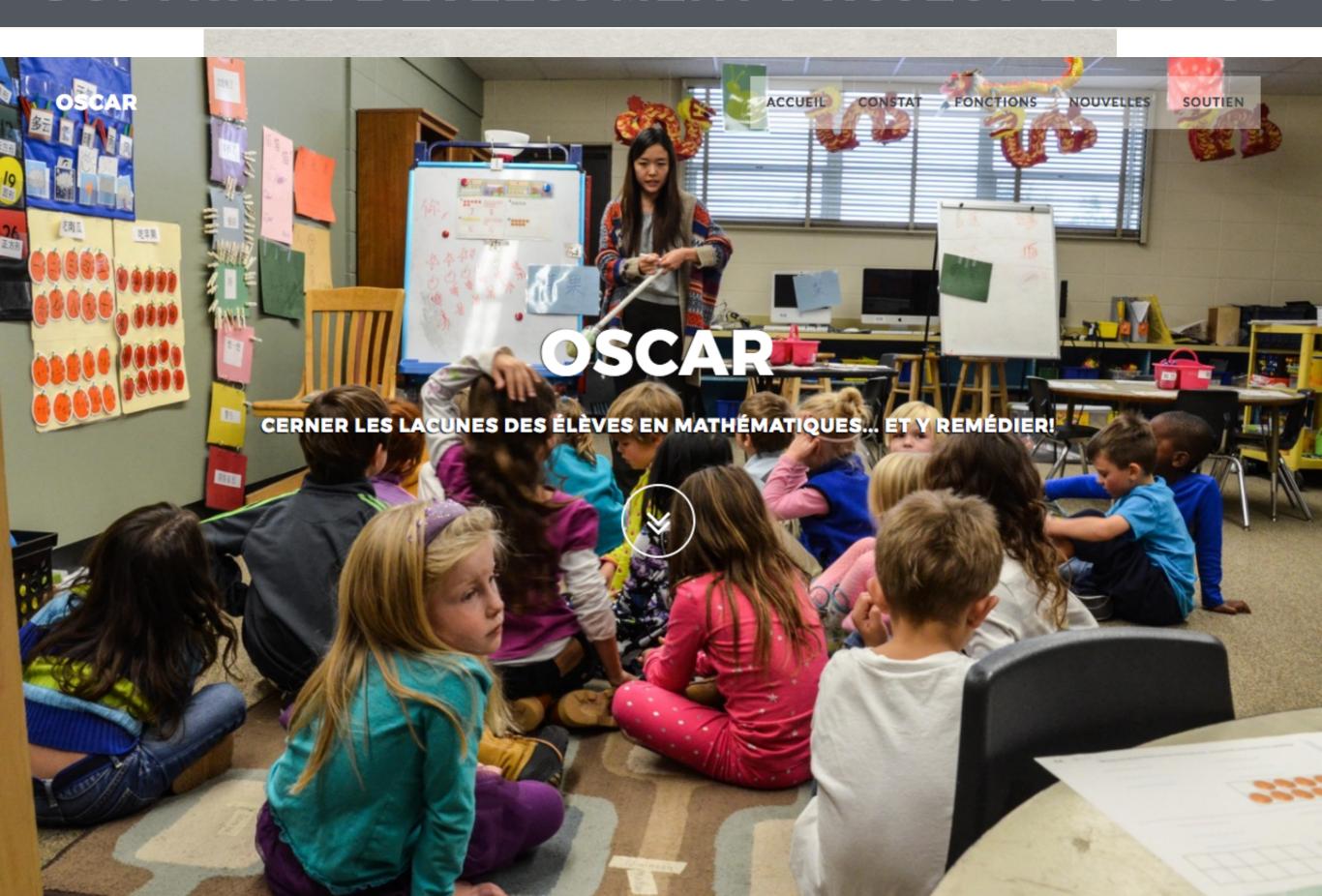
* Non-profit organisation: Eureduka

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SOFTWARE DEVELOPMENT PROJECT 2017-18



TENTATIVE PROJECT SCHEDULE (COURSES)

week	course activity				
	Course introduction by teacher				
1	Presentation of case by client				
	Technical presentation by client				
2	no course (legal holiday)				
3	Introduction to requirements phase				
J	Q&A session with client				
4	Planning and architecture				
5	Feedback on requirements documents from client Permanence and feedback with client				
6					
7	no course (legal holiday)				
8	show 1st prototype to client				
9	no course session planned (yet)				
10	Permanence and feedback with client show 2nd prototype to client				
11					
12	Permanence and feedback with client Permanence and feedback with client				
13					
14	Demo and defence of final product				

TENTATIVE PROJECT SCHEDULE (SESSIONS WITH CLIENT)

week	course activity				
	Course introduction by teacher				
1	Presentation of case by client				
	Technical presentation by client				
2	no course (legal holiday)				
3	Introduction to requirements phase				
J	Q&A session with client				
4	Planning and architecture				
5	Feedback on requirements documents from client				
6	Permanence and feedback with client				
7	no course (legal holiday)				
8	show 1st prototype to client				
9	no course session planned (yet)				
10	Permanence and feedback with client				
11	Show 2nd prototype to client Permanence and feedback with client Permanence and feedback with client				
12					
13					
14	Demo and defence of final product				

PROJECT PHASES

Project split in several phases of ~2 weeks

**Phase 0: Getting acquainted with case and technology (2 weeks)

**Phase 1: Requirements analysis (2 weeks)

*Phase 2: Design (2 weeks)

Phase 3: Implementation of first prototype (2 weeks)

****Integration** Merge and integrate prototypes (1 week)

Phase 4: Implementation of second prototype (2 weeks)

*Integration Merge and integrate prototypes (1 week)

** Phase 5: Reporting and project defence (2 weeks)

EXPECTED DELIVERABLES

** Project split in several phases of ~2 weeks

Phase 0: Database model

** Phase 1: Requirements documents (10 pages)

** Phase 2: Design documents

Phase 3: First prototype

**Integration Prototype integrated and merged with others

** Phase 4: Second prototype (2 weeks)

****Integration** Prototype integrated and merged with others

** Phase 5: Final reports, manuals, presentation, ...

PROJECT SCHEDULE (DEADLINES)

	W	phase	deliverable		deadline	
0	1-2	getting acquainted	database model		end W2	
1	3-4	requirements	requirements document		end W4	10%
2	5	design	design documents		end W6	5%
3	6-7	first prototype	1st working prototype		end W7	20%
Ι	8	integration	prototype integrated		end W8	
2	9	design	design documents		end W9	5%
4	9-1	second prototype	2nd working prototype		end W10	20%
Ι	12	integration	prototype integrated		end W11	
_	12	reporting	docume	entation	end W12	15%
5	13	final product	user manual	code, tests	end W13	
	14	demo & presentation	project		W14	25%

PROJECT EVALUATION

Continuous evaluation:

- * Intermediate prototypes: 40% (20% each)
- ** Intermediate documents: 20% (requirements and design documents)
- * Final reports and documentation: 15%
- * Presentation and demonstration of the final product: 25%
 - ** delivered system, documentation, tests, presentation, demonstration, internal product quality, product usability, team organisation, client appreciation, ...

No possibility to do a second session for this course!

POINTS OF ATTENTION

*Timing



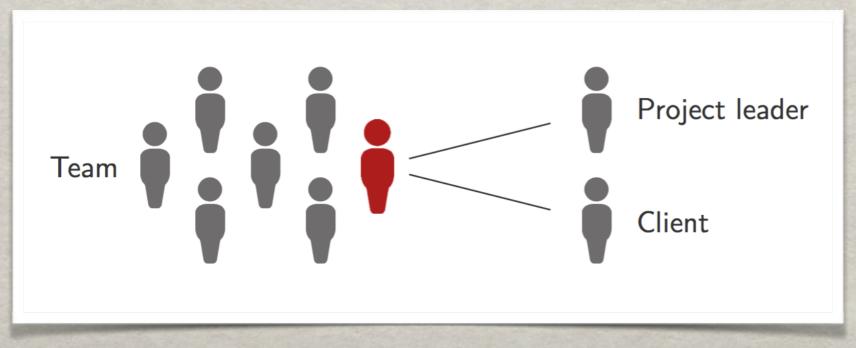
- ** Start early; work regularly; respect planning & deadlines
- **75% of final grade is based on intermediate evaluation!



- ****Organise** your team
- ** Assign responsibilities
- * Distribute work among team members

TEAM ORGANISATION

- ** Teams of 6-8 developers
 - * assign one team member as (internal) team manager
- * Teams overseen by a project leader
 - # project leader = a (pair of) course assistant(s)



TEAM ORGANISATION

- * Weekly meetings with project leader (obligatory)
 - ** presenting progress and difficulties
 - * assessing alternative options
 - * distribution of work within team
 - * feedback on intermediate and progress reports
 - * monitoring of schedule

TEAM ORGANISATION

- * Role of (internal) project manager
 - **Spokesperson** for the team
 - * Delegates responsibilities to team members
- * Responsibilities to be mentioned in reports
 - * And discussed with project leader during weekly meetings
- ** Don't exclude newcomers from your team (added in week 2)
 - ** managing unexpected situations is a skill to be learned, as well as working in heterogeneous teams

PROJECT DEFENCE

- ** In week 14 (just before the Christmas holidays)
 - # dates and hours to be determined (could be an evening)
 - * with the client, your project leader and the professor
 - * presence of all team members is mandatory
- ** Two parts (40 minutes)
 - * 15 minutes of demonstration
 - *25 minutes of presentation (including questions)

GETTING STARTED ...

- * Join Slack (now) and start finding team members
- * Register to Moodle (Thursday or Friday) and create teams of 5
 - * at least two French-speaking members per team
 - # deadline for initial team creation: Fri 22.08
 - # up to 2 (exceptionally 3) extra members may be added by professor
 - ** Project leader (assistant) will be assigned to teams immediately after creation
 - * Choose an internal team manager (student)
 - * Team managers contact project leader to fix date for weekly team meeting
 - # first meeting must be held before end of week 2

NEXT STEPS...

- * Learn technology: Python, Django, GitHub, ...
- * Download and install code base, development tools, versioning system.
- # Get to know your team.
- * Discuss and choose module to implement.
- * Make detailed ORM or ER model of the existing database.
- ** Read case specification and technical description (will be available this Friday)
- ** Team manager can contact client if things are unclear (email / Slack)
 - * for questions or clarifications about case description
 - * client will also be present in week 3 for Q&A session



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