trounced

Distributed & Outsourced Software Engineering

Challenges and Practical Advice for Distributed and Outsourced Software Engineering

> Martin Nordio ETH Zurich

ETH course, Fall 2010

•

Project Management

Cultural Differences

Time zones

Communication and Language skills

Challenges for DOSE: PROJECT MANAGEMENT Project management is difficult

In a traditional one-site setting, the manager can just go to a developer's office and ask to see the current state

It is difficult for the project manager to form a good picture of the project's progress

Configuration management plays an important role

Provide templates

Monitor the tasks constantly

Maintain regular communication For example, one hour weekly meetings

Remind the team about deadlines and double check with the developers if the deadline is still realistic

Require the developers to show a proof of progress (for example by showing a demo, asking deep questions about the implementation, monitoring the code, etc)

Define commit rules

Code must compile before commit Test must run before commit Code must review before commit

Apply code reviews:

Review-to-commit Commit-then-review

Challenges for DOSE: CULTURAL DIFFERENCES Working in the same culture - common knowledge Swiss national day Being on time is important

Different cultures

Different cultural backgrounds Different national holydays Different interpretations

Cultural differences: train in India



Cultural differences: traffic in Hanoi



Cultural differences: Cambodia



Illustrative Examples (these examples are only illustrative examples)

CULTURAL DIFFERENCES

For example, for Indians: "yes" means "yes, I have heard you" "done" means "I will start to do it tomorrow"

Negative feedback is giving by not responding Trying not to answer Suggesting alternatives

[Examples from: Working with India - Wolfgang Messner]

Company C in Germany sends a feedback form to Company D in India

After 5 days: C contacts D asking about the feedback

Company D: feedback form? When?

[Examples from: Working with India - Wolfgang Messner]

A chat with Vietnam

+ Image: Constraint of the second s	Drawer
hi	10:29 AM
	10:29 AM
hi 😇	10:29 AM
how are you 😇	
	10:29 AM
good, and you?	10:29 AM
not very well 😇	
	10:30 AM
I'm sorry I didn't commit my report 😇	
no problem, are you going to commit it now?	10:30 AM
	10:30 AM
yes 😇	0
ok, then I wait, and I can take a look now	10:31 AM
	10:33 AM
I've just committed 😊	
harmerorato	10:34 AM
	10:37 AM
You have an abstract, and chapter 1; do you plan to write an extended abstract of 1-2 pages or to write the whole thesis in English?	
	10:38 AM
I intend to write the whole thesis in English igodot	10:39 AM
I intend to write some chapter please give me a minute to add some chapter igodot	10.00 /41
Marun woroto	10:40 AM
when is the deadline (to finish the report)?	10:42 AM
in Hanoi I have to handle in the report at 23/05/2010 😇	
	10:42 AM
ok	A V

- A: Hi B, can we meet next week?
- B: Wednesday 2:00 pm?
- A: ok, Wednesday at 2pm

-Wednesday – 1:55 pm – the meeting room is empty 1:59 pm – the meeting room is still empty 2:00 pm – A and B arrive to the meeting room and the meeting starts

M: Hi C, can we meet next week? C: Wednesday **around** 2pm? M: ok, Wednesday at 2pm

-Wednesday – 1:55 pm – M: Hi C, I am going to be 10 minutes late 2:15 pm – M arrives to his office 2:20 pm – C: Hi M, do not worry, I will also be late 2:30 pm – the meeting starts

Name and family name (Vietnam)

Lê Minh Đức

Do Lê Minh



M: Can you finish the requirements document by next week?

V: Yes.

M: But there is a lot to do, do you have time?

V: Yes.

M: Can you finish the requirement document by Saturday? V: Yes

M: Ok, and what about tomorrow, can you finish it by tomorrow?

V: Yes, yes, yes.

Person A is hired in company C to start on November 1st

Company C contacts A on October 29^{th} to check if A still plans to start to work at C

On Monday November $1^{\rm st},\,A$ decides to start to work in another company

Be aware of the cultural differences and learn about the counterpart's cultures

Indicate the country holidays in a common calendar

Take into account the country holidays when defining a deadline

Challenges for DOSE: TIME ZONES

Challenges: time zones



Keep meetings on schedule

Keep in mind the Daylight Saving Time

Do not wait to send an e-mail (even if the it is late or early in the other time zones)

Challenges: communication and language skills

E-mail is not enough - need for voice communication

Communication through phone/skype and video conference is difficult

Heavy accents

Different English mistakes to the ones one is used to

Tools are important

Use several forms of communications: e-mail, voice conferences, wikis, docs

Create mailing lists

Send the important information in writing

Write minutes of the meetings recording decisions taken, and action items (todos)