

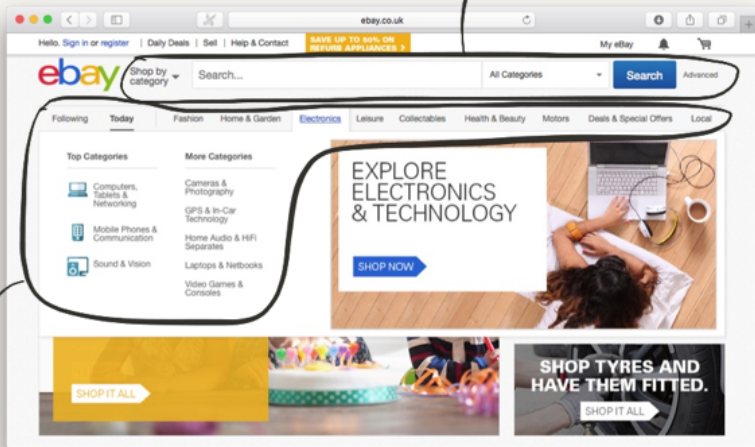
Software Engineering and System Development

L1. Introduction

Dr Artur Boronat

Online shop

search products



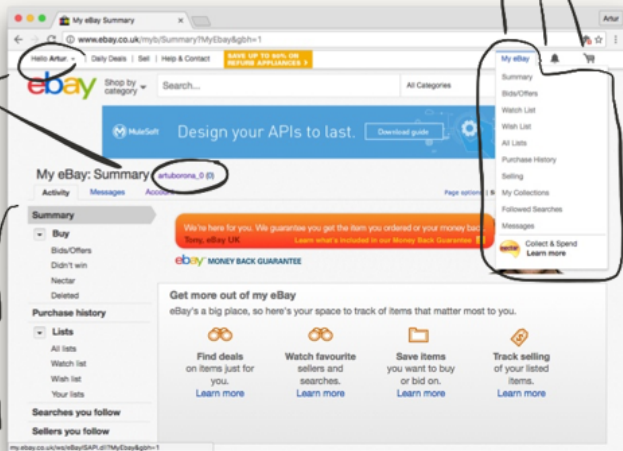
browse the website

Online shop

functional features

EBAY
Knows
me
and

remembers
what
I did



DATA IS PERSISTED



Online shop

Secure
Communication

authentication
mechanism

SECURITY

Change your password x

← → ↻ <https://reg.ebay.co.uk/reg/ChangePwd> ☆ ⋮

ebay

CHANGE YOUR PASSWORD

Current password

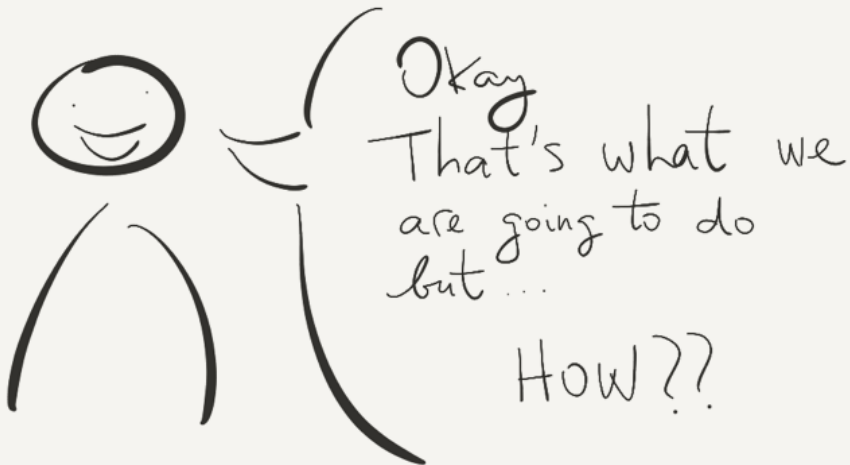
New password ☐ Show

Re-enter new password

Submit

Copyright © 1995-2016 eBay Inc. All Rights Reserved. [User Agreement](#).
[Privacy](#), [Cookies](#) and [AdChoice](#) ©

Norton
SECURED

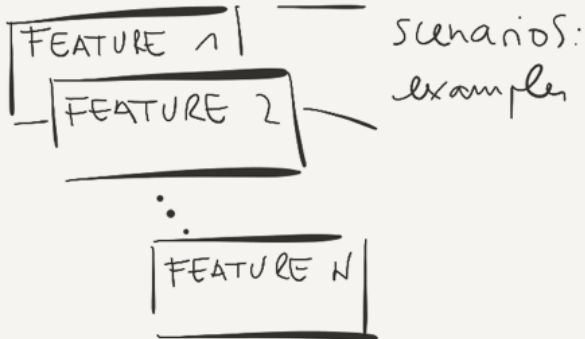


Okay
That's what we
are going to do
but ...

How??

SOFTWARE METHODOLOGY

① REQUIREMENTS SPECIFICATION



SOFTWARE METHODOLOGY

- ① REQUIREMENTS SPECIFICATION
- ② DESIGN AND DEVELOPMENT



Spring MVC
Spring Data
Spring Security
L used at
EBAY

SOFTWARE METHODOLOGY

① REQUIREMENTS SPECIFICATION

② DESIGN AND DEVELOPMENT

③ TESTING

- Test-driven development
- Behaviour-driven development

SOFTWARE METHODOLOGY

① REQUIREMENTS SPECIFICATION

② DESIGN AND DEVELOPMENT

③ TESTING

④ BUILD

- automates tasks in ①, ② and ③
- Gradle

SOFTWARE METHODOLOGY

① REQUIREMENTS SPECIFICATION

↳ ② DESIGN AND DEVELOPMENT

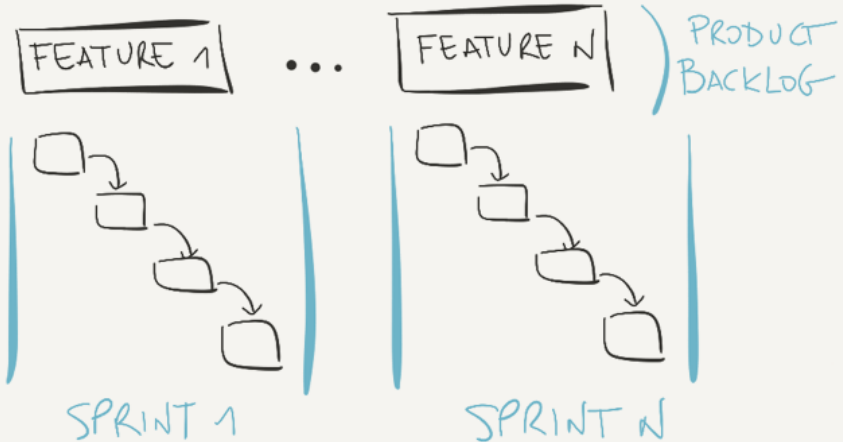
↳ ③ TESTING

↳ ④ BUILD

IS THIS THE WATERFALL MODEL?

SOFTWARE METHODOLOGY

... actually think AGILE



MODULE CONTENTS

SPRINT 1: AGILE + GRADLE

SPRINT 2: SPRING MVC

SPRINT 3: TDD + BDD

MODULE CONTENTS

SPRINT 1: AGILE + GRADLE

SPRINT 2: SPRING MVC

SPRINT 3: TDD + BDD

SPRINT 4: SPRING DATA
+ SECURITY

ORGANISATION

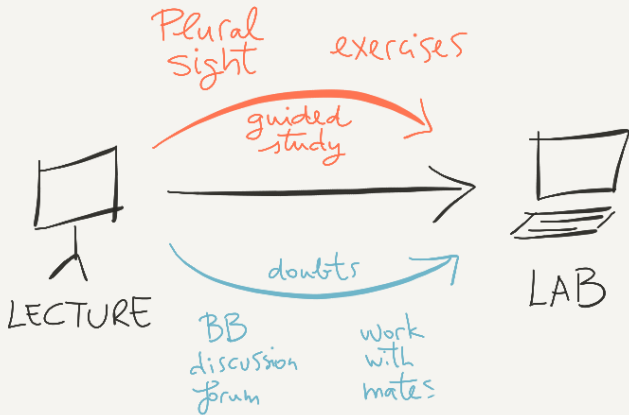
STAFF

Blackboard

SCHEDULE

Blackboard

BLENDED LEARNING



TA Help Desk hours

ASSESSMENT & FEEDBACK

Module structure

- Module structure
- Coursework outline: formative and assessed

Formative feedback:

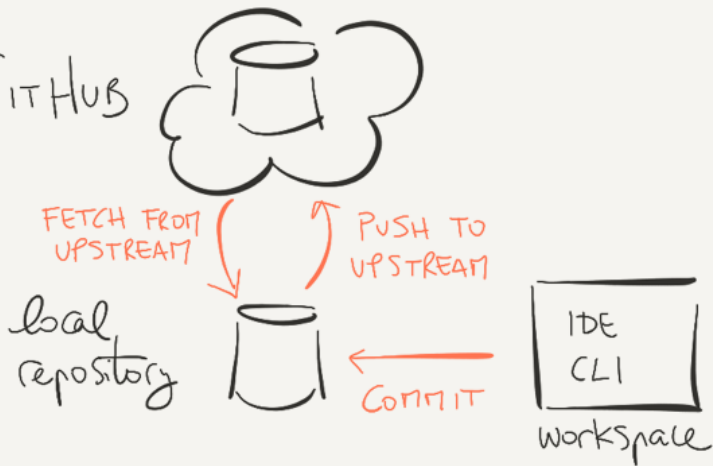
- Solutions to exercises and lab sessions
- Blackboard discussion board
- Assessed coursework feedback

COMMUNICATION

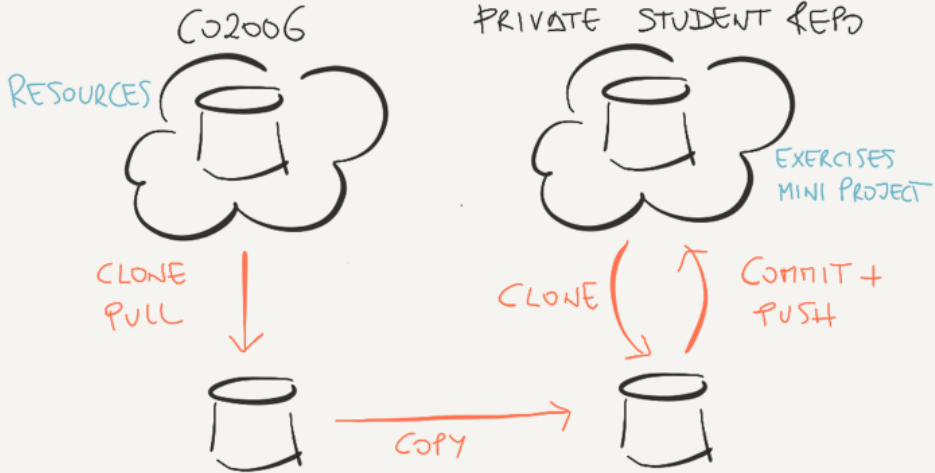
- Blackboard discussion forum
 - check whether your question is answered already
 - if no one knows the answer, open a thread in the discussion forum with:
 - a meaningful **title**
 - some **context**: explanation of the problem (for technical questions, you may want to use a GitHub gist, a git repository with code, etc) that is required to understand the question
 - a **question**
- Laboratory sessions
- GitHub

COMMUNICATION

GIT HUB



COMMUNICATION



MANAGEMENT

What's next?

- We are using Eclipse as IDE (integrated development environment), namely the [Spring Tool Suite](#):
 - check the [pre-requisites](#) of the sprint if you need to revise how to use Eclipse
- [Set up your working environment](#)
- [Form pairs for the lab sessions \(optional\)](#)
- First lecture: tomorrow 3 Oct, 16:00, in KE LT2