Rapid prototyping with Domain-Driven Design

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Codemotion Berlin 2016
What is the biggest problem of Software Engineering? * actually two
Uncertainty

Complexity
Doing the right thing
Doing the thing right
This Talk

RP → Tools

DDD

? → !
Nikolas Martens
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certainty
Construction

$ \leftrightarrow \text{tools} \leftrightarrow \text{low cost} \rightarrow \text{high cost} \rightarrow \text{high cost} \rightarrow \text{low cost}$
Software

$\text{ $$$ } \quad \text{ free } \quad \text{ $$ }$
plan
adapt
Rapid

Prototype

Agile
Lean
Scrum
Crystal
XP
adapt

The right thing
Complexity is essentially in the Domain
Let's focus on the Domain
What is Domain-Driven Development?
Domain-Driven Design

Tackling Complexity in the Heart of Software

Eric Evans

Foreword by Martin Fowler
The Model
The Model

is a

useful approximation

of the real world
Example

ToDo App
Add Task
Complete Task
Categorize
Log Time
Single Model

Ubiquitous Language
DDD all the things!
But... is it worth it?
Naked Objects
Richard Pawson
2004
**Customer instance**

- **First Name:** Richard
- **Last Name:** Pawson
- **Phone Numbers:**
  - Home
- **Locations:**
  - Office, Boston
  - Home
- **Preferred Payment Method:**  
  - **Reference:** #1
  - **Status:** New Booking
  - **Customer:** Richard Pawson
  - **Date:** 29-Aug-02
  - **Time:** 06:50:00
  - **Pick Up:** Home
  - **Drop Off:** Logan Airport
  - **Payment Method:** *********01893
  - **City:** Boston
  - **Contact Telephone:** Home
Login

Username
Enter username.

Password
Enter password.

Remember me

Sign In  Reset
Buy bread due by 2016-03-22

Properties

General

Description: Buy bread
Category: Domestic
Subcategory: Shopping
Complete: [ ]

Priority

Relative Priority: 1
Due By: 22-03-2016

Similar to

<table>
<thead>
<tr>
<th>Description</th>
<th>Category</th>
<th>Subcategory</th>
<th>Complete</th>
<th>Due By</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buy milk</td>
<td>Domestic</td>
<td>Shopping</td>
<td>[ ]</td>
<td>22-03-16</td>
<td>0.75</td>
</tr>
<tr>
<td>Buy stamps</td>
<td>Domestic</td>
<td>Shopping</td>
<td>[ ]</td>
<td>22-03-16</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Showing 1 to 2 of 6. Next all
Naked Objects
all
the things!
But... work within framework?
Feels CRUDy
System

Ability Ability Ability Ability Ability Ability Ability
domin
Action

name

parameters

execute(args)
optional
/**
 * Greet somebody
 * @param string $name
 * @return string
 */

public function greet($name) {
    return $name;
}
Event sourcing
A seemingly heavy method with the right tool can become light and fast.
get in touch!

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