

ÖVNING.NU

The ASP.NET 2.0 Version



INTRODUCTION: TEAM

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INTRODUCTION: PLACE

Högskolan i Halmstad, Sweden



INTRODUCTION: COMPANY

U-Quest International

- On-line surveys
- Multinational
- War games



OVERVIEW

1. Requirements
2. Legacy System & ASP.NET 2.0
3. Övning.nu overview
 1. Database Transactions
 2. Internationalization
 3. Template System
 4. Reporting
 5. Role-based Authorization
 6. Test Driven Development
4. Demo



1. REQUIREMENTS

Organizer

- Organize war games
 - Manage surveys & questions & users
 - Generate reports

Participant

- Take Survey



2. LEGACY SYSTEM & ASP.NET 2.0

Last year's project:

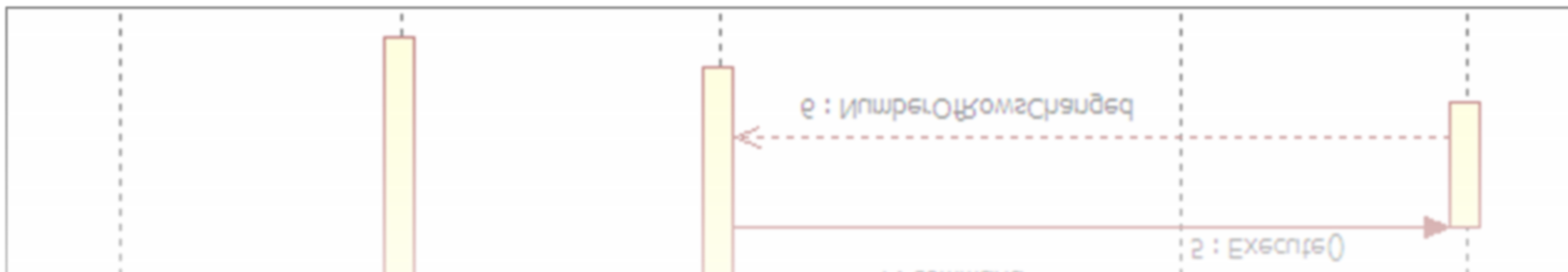
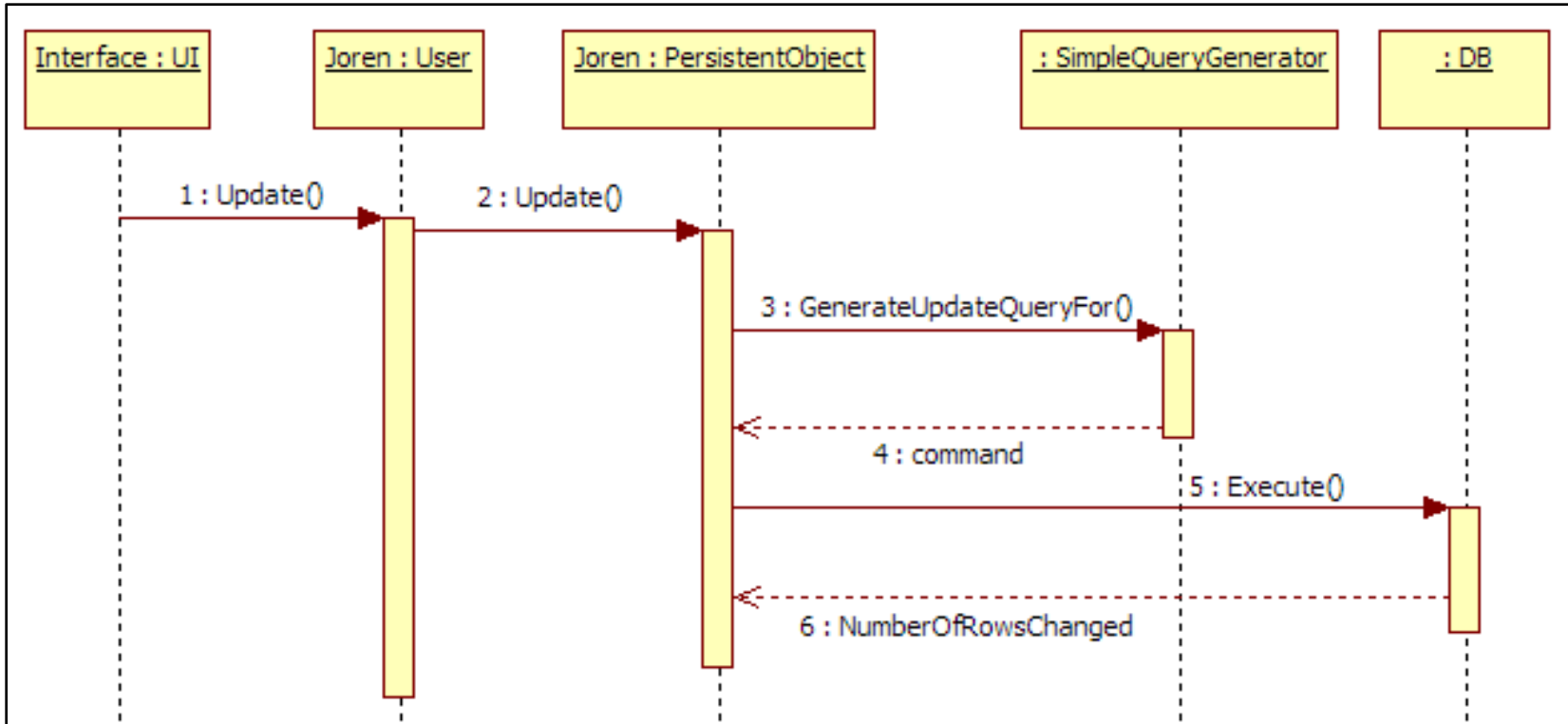
- ASP.NET 1.1
- VB.NET 1.1
- Schema databases

Our project:

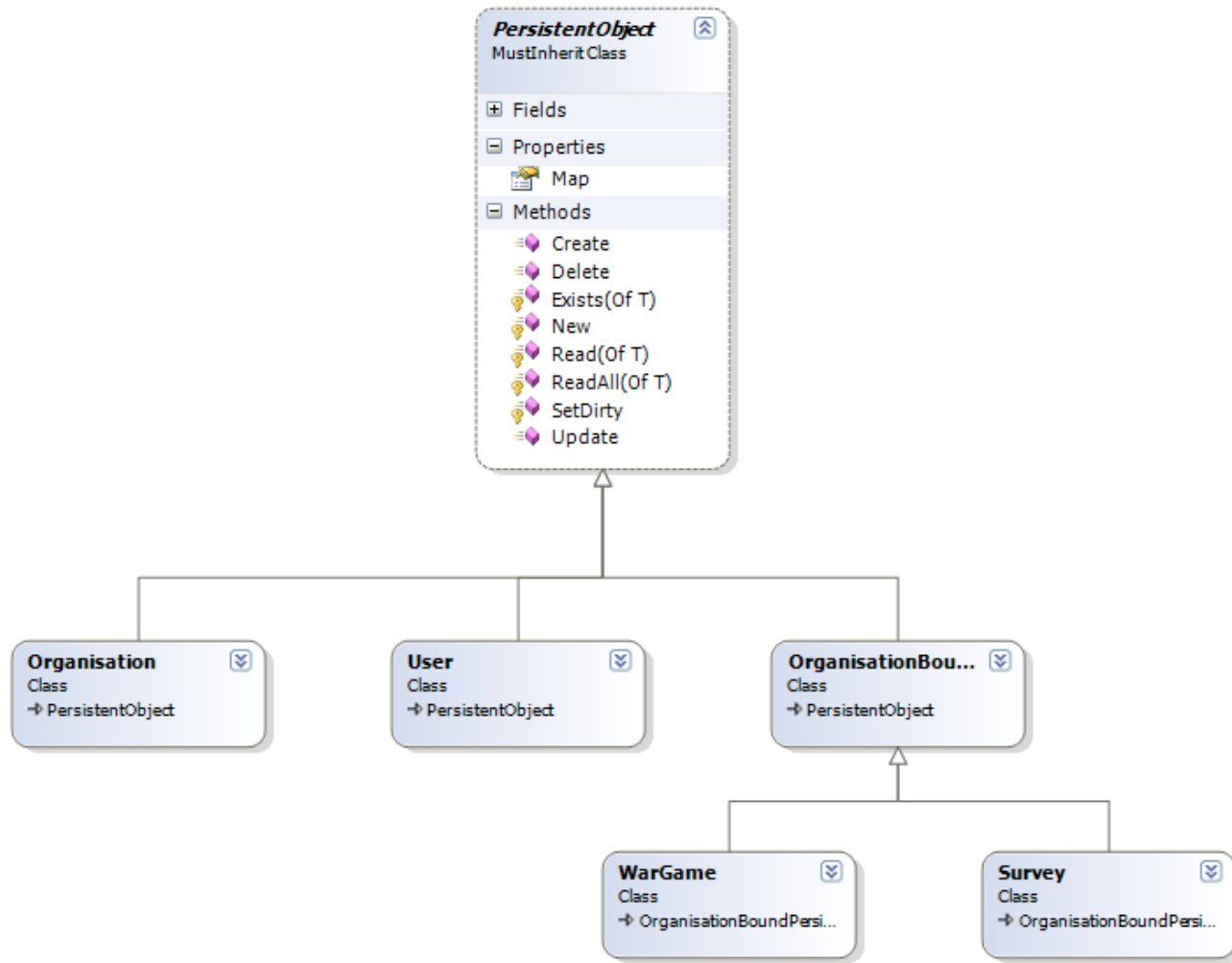
- ASP.NET 2.0
- VB.NET 2.0
- Same databases



3.1 DATABASE TRANSACTIONS



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- Easy to expand database schema
- RDBMS independant
- Safe, prevents SQL-injection
- No SQL
- Type safe
- Query-by-example



3.2 INTERNATIONALIZATION

Legacy system:

- Custom internationalization framework
- Text for each language in database

Our system:

- Asp.net internationalization framework
- Text in separate resource files



3.2 INTERNATIONALIZATION

Advantages:

- Faster: database roundtrips, caching
- Maintainable: easy to add languages
- Automatic language detection
- Culture aware
- Less error prone



3.3 TEMPLATE SYSTEM

Extensive use of CSS

- Easier to make changes
- Faster: smaller html files
- Separates style from content
- Accessible: smart phones, screen readers



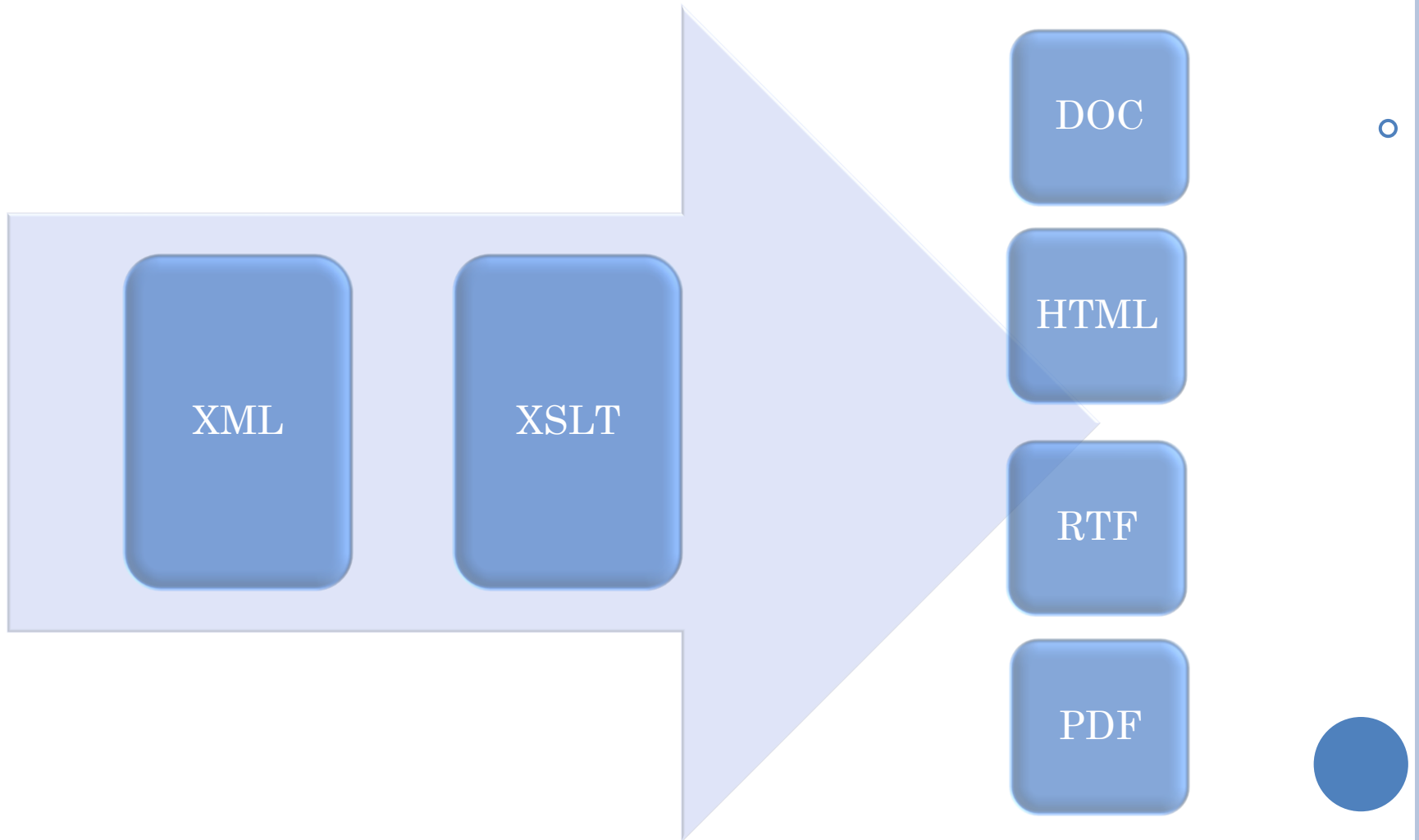
3.3 TEMPLATE SYSTEM

Master Pages

- One html page, multiple content pages



3.4 REPORTING

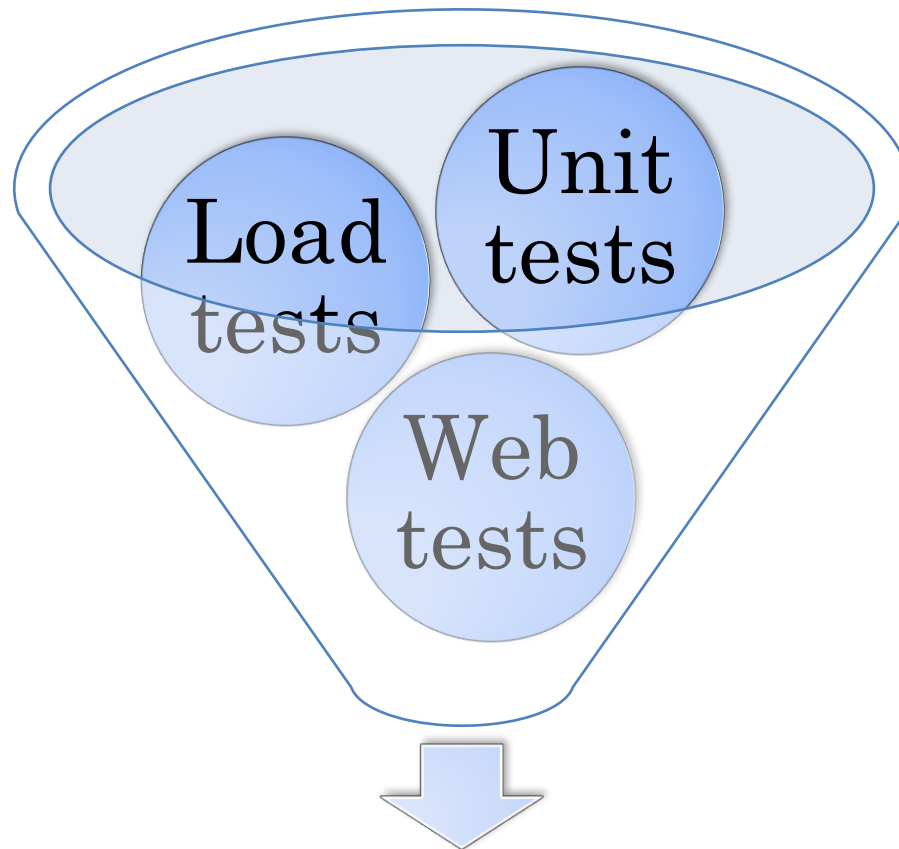


3.5 AUTHENTICATION

- Role based
- Integrated Forms authentication
- Logging of hack attempts
- Sliding session
- Easy but safe passwords



3.6 TEST DRIVEN DEVELOPMENT



Quality Assurance



3.6 TEST DRIVEN DEVELOPMENT

Unit tests:

- Refactoring easy and safe
- Code works, guaranteed

Load tests & web tests:

- Stress tests show weak points
- System reacts as in production: bugs exposed



4. DEMO

