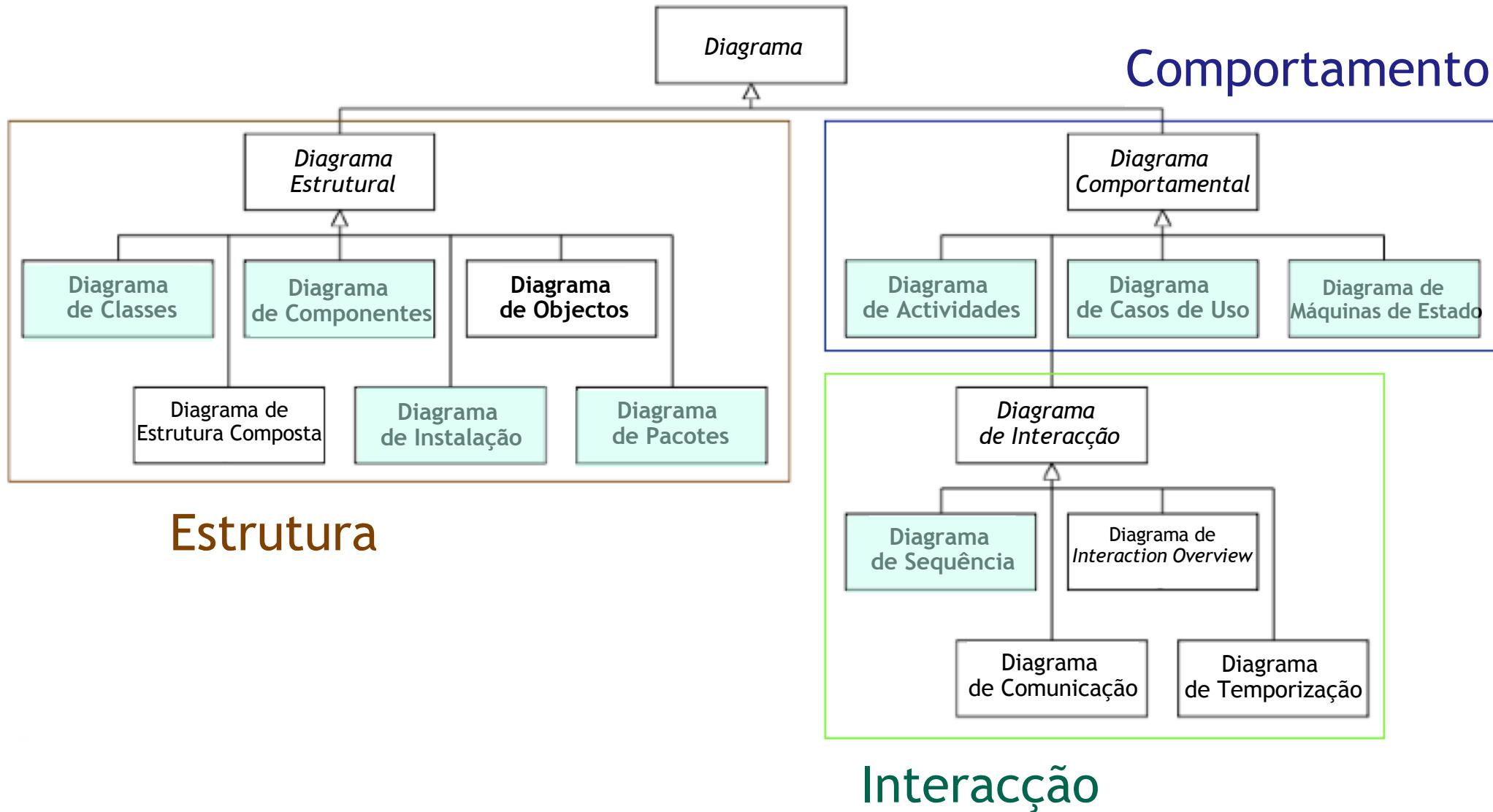


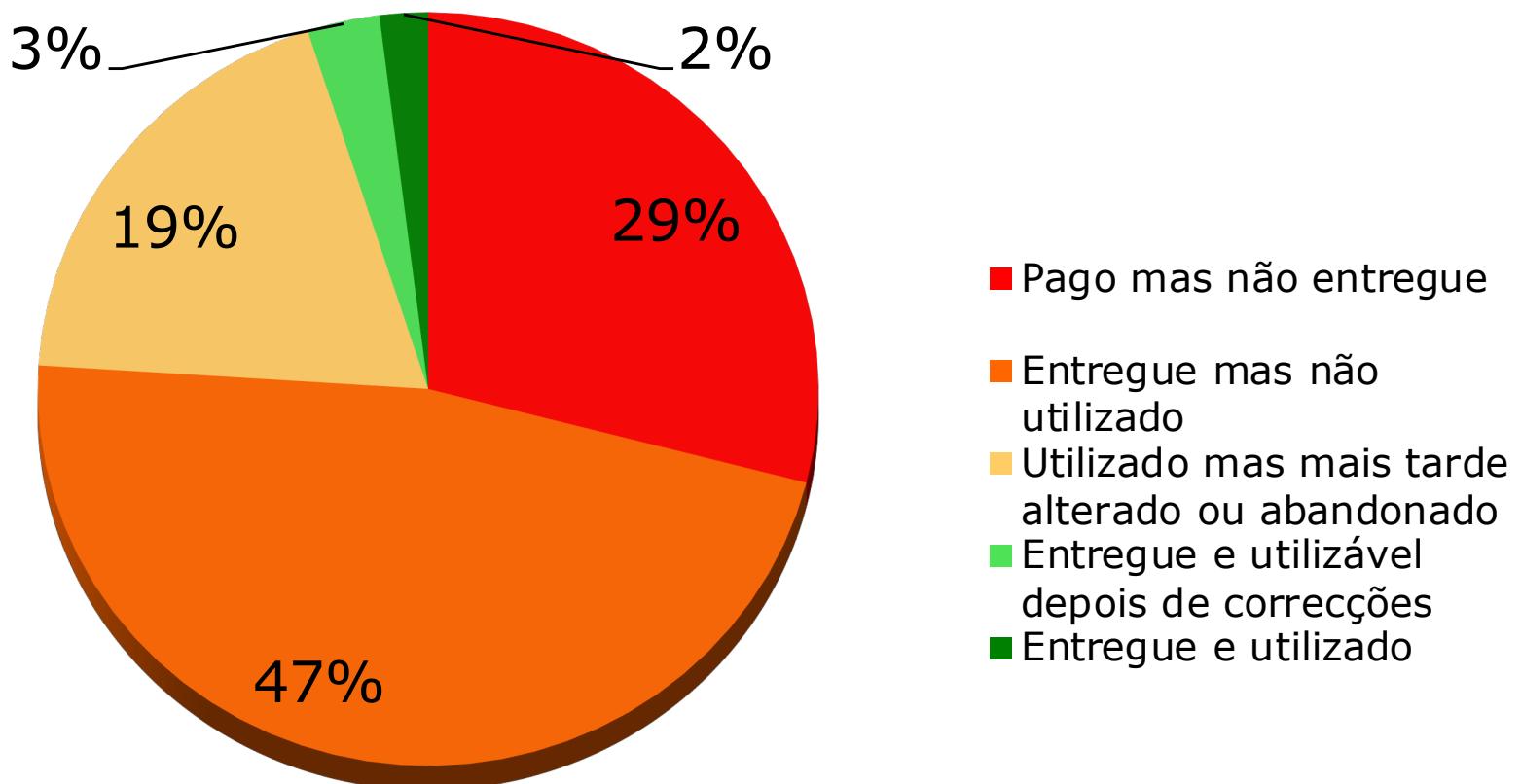


Desenvolvimento de Sistemas Software

Aula Teórica 25
Notas finais



Estado da arte em 1992...



- Mais de 75% do software pago não chegou a ser utilizado!
- Apenas 5% do software pago foi utilizado continuadamente (deste, 3% necessitou de correções).



Estado da arte em 2019?

Forbes / Entrepreneurs / #CuttingEdge



JUL 11, 2016 @ 04:41 AM 22,468 ⚒

The Little Black Book of

Robots Replacing Developers? This Startup Uses Automation To Build Smart Software



Julian Mitchell, CONTRIBUTOR

I cover entrepreneurs and startups disrupting industries.

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Could artificially intelligent computers replace programmers in the future?

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73 Answers



Joscha Bach

Answered Jun 9, 2016



I am surprised that most answers seem to be in the negative, or think that programming is one of the last fields where human labor becomes obsolete. General artificial intelligence will of course replace programmers at some point: the question is not if, but when, and at what level of sophistication of AI.

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ACM TECHNEWS

AI Will Replace Coders by 2040, Warn Academics

By V3.co.uk

December 8, 2017

Comments

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Coders and programmers could find themselves becoming marginalized by emerging technologies such as artificial intelligence, with humans being replaced in these jobs by 2040, according to a study from academic researchers published by Oak Ridge National Laboratory.

The report predicted by 2040, machine learning and natural language processing technologies will have become so advanced they will be able to write better software code faster than the best human coders.

In addition, "the major technologies that will drive the creation and adoption of machine-generated code already exist, either at

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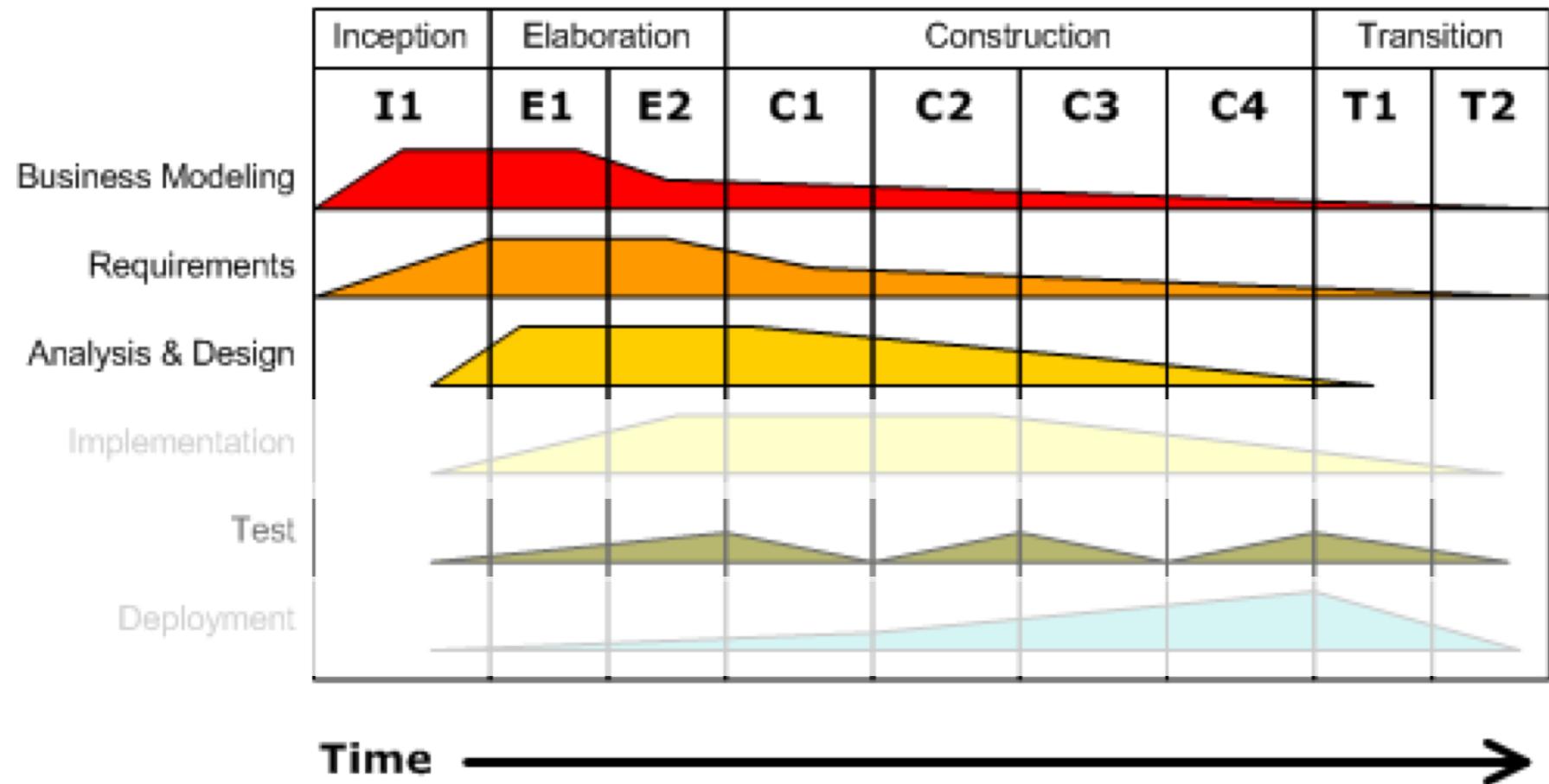
[Makes a Comeback—But It's Still](#)

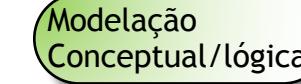
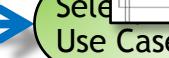
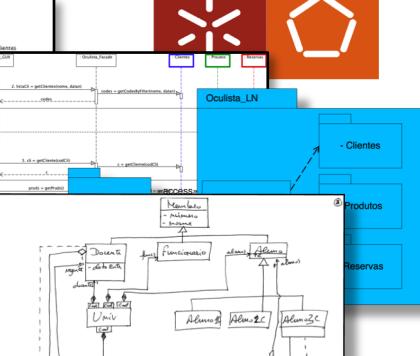
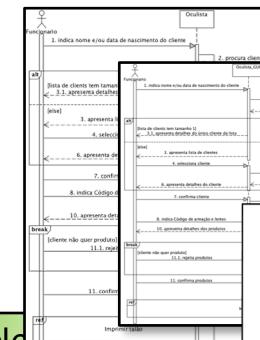
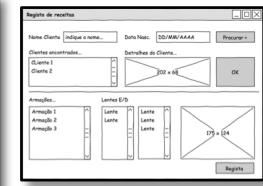
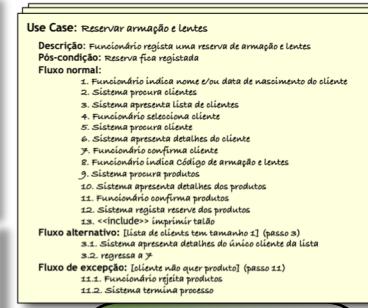
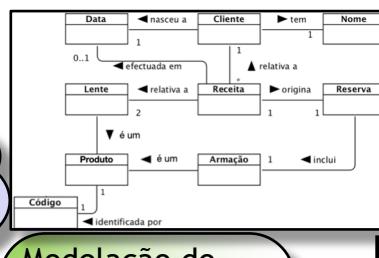
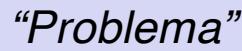
Best No-Code Development Platforms Software

No-Code Development Platform provide drag-and-drop tools that allow businesses to develop software quickly without coding. The platforms provide WYSIWYG editors and drag-and-drop components to quickly assemble and design applications. Both developers and nondevelopers can use these tools to practice rapid application development with customized workflows and

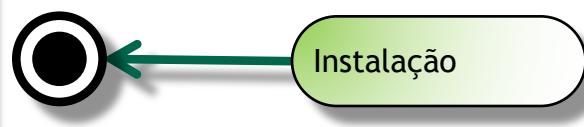
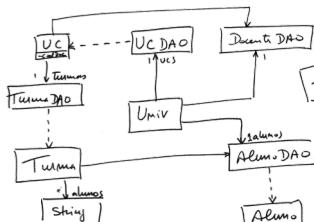
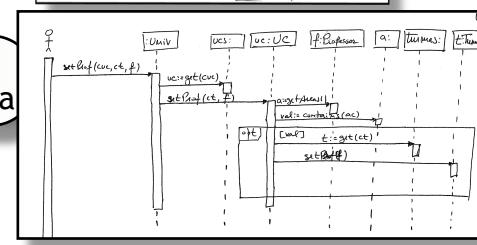
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(Rational) Unified Process





[mais UCs a tratar]

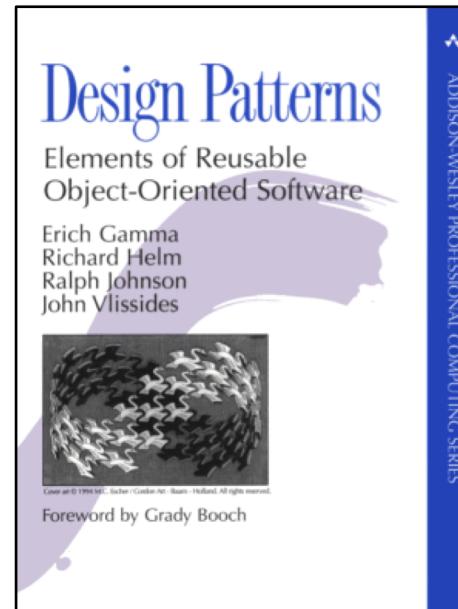


[implementação completa]

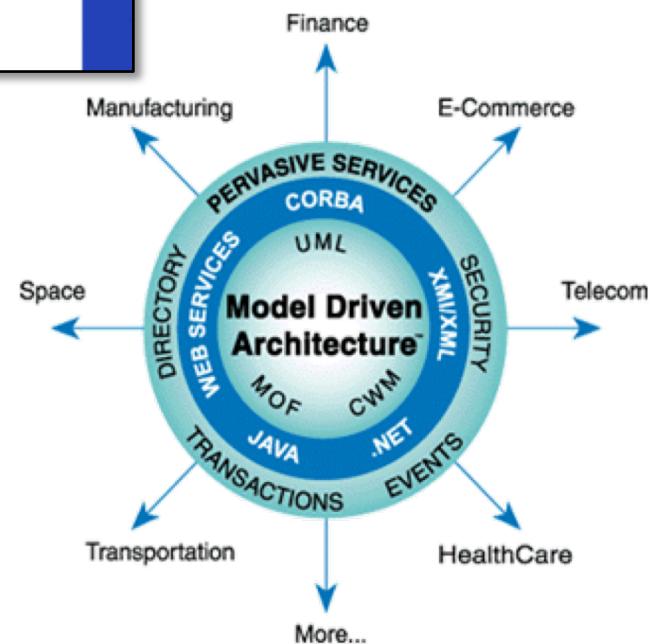


Mais...

- Software design patterns



- Model Driven Engineering
 - Model Driven Arquitecture (OMG)
- <pub>Engenharia de Aplicações</pub>
 - Desenvolvimento de Aplicações Multi-camada (Web)





Avaliação

- Exame (≥ 9.0) - uma prova escrita sobre a matéria leccionada
 - Exame de consulta
- Trabalho Prático (≥ 10.0)
- Objectivos
 - Reconhecer os diferentes tipos de diagramas da UML ;
 - Compreender modelos (de requisitos/estruturais/comportamentais) descritos em UML;
 - Conceber sistemas de software utilizando UML;
 - Implementar sistemas de software a partir de modelos UML.
- Classificação Final (≥ 10.0)
 - .6 Exame + .4 Trabalho



Sobre o trabalho prático

- Dois deliverables:
 - Relatório com análise e modelação
 - Uma aplicação informática que permita executar os use cases solicitados
- Na apresentação:
 - Avalia-se a qualidade do processo e como é que cada grupo executou as diferentes fases de análise e modelação
 - Avalia-se a construção da aplicação, na sua lógica multi-camada e na arquitectura apresentada

Sobre o trabalho prático...

- Estrutura do relatório:
 1. Introdução (objectivos e principais decisões tomadas)
 2. Modelação
 1. Modelo de domínio
 2. Modelo de Use Cases (diagrama e especificação textual de cada UC)
 3. Protótipo da interface
 4. Considerando os 10 use case solicitados na Fase 2
 1. Diagramas de sequência com subsistemas para cada Use Case
 2. Diagrama de packages
 3. Diagrama de classe
 4. Diagrama de sequência das operações de cada subsistema
 3. Implementação - Considerando os 5 use case solicitados na Fase 2
 1. Diagrama de classe com DAOs / indicação das tabelas do modelo relacional
 2. Detalhes relevantes da implementação
 3. Descrição da interface
 4. Conclusões
 1. Como avalia o resultado obtido, o processo de modelação seguido e o de construção da aplicação



Sobre o trabalho prático...

- Relatório:
 - Itens opcionais:
 - Diagrama de estado para as entidades mais relevantes (interface?)
 - Diagrama de sequência de nível de implementação para métodos mais relevantes (se necessário)
 - Diagrama de instalação



Modelação Estrutural/Modelação Comportamental

Sumário

- Notas finais