Model Report

Requirements Model

Version   ●   Proposed

Requirements Model

Package in package 'Model'

<div align="right">

Requirements Model
Version   Phase 1.0 Proposed
created on 21/10/2015. Last modified 19/11/2005

</div>

Requirements Model diagram

Custom diagram in package 'Requirements Model'

<div align="right">

Requirements Model
Version 1.0
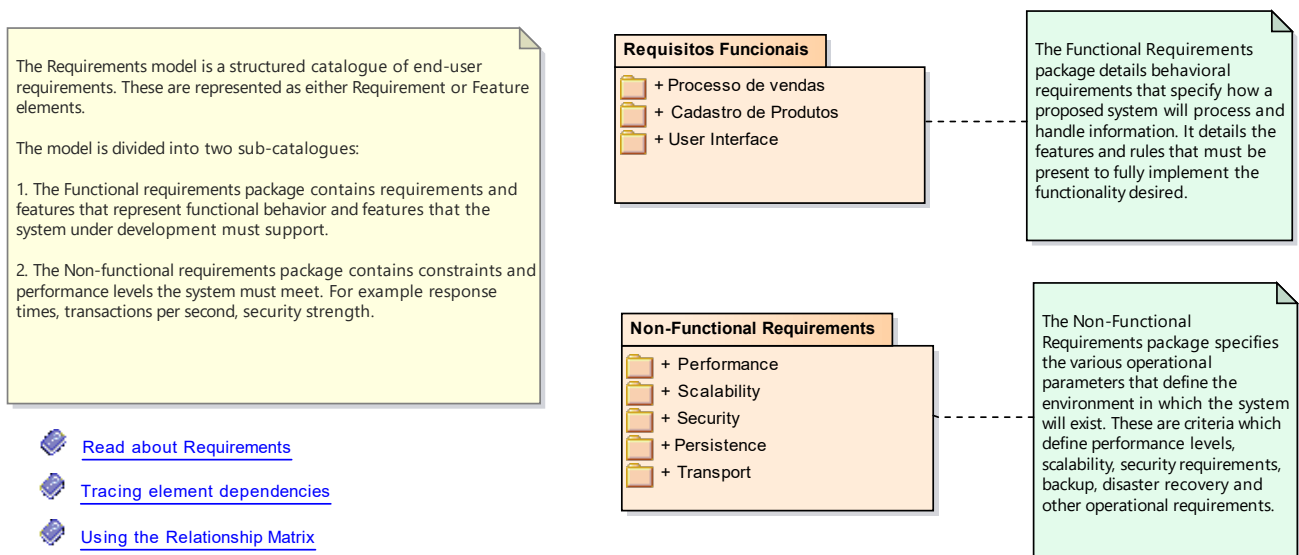jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

The Requirements model is a structured catalogue of end-user requirements. These are represented as either Requirement or Feature elements.

The model is divided into two sub-catalogues:

1. The Functional requirements package contains requirements and features that represent functional behavior and features that the system under development must support.

2. The Non-functional requirements package contains constraints and performance levels the system must meet. For example response times, transactions per second, security strength.

Read about Requirements

Tracing element dependencies

Using the Relationship Matrix

Requisitos Funcionais

+ Processo de vendas
+ Cadastro de Produtos
+ User Interface

The Functional Requirements package details behavioral requirements that specify how a proposed system will process and handle information. It details the features and rules that must be present to fully implement the functionality desired.

Non-Functional Requirements

+ Performance
+ Scalability
+ Security
+ Persistence
+ Transport

The Non-Functional Requirements package specifies the various operational parameters that define the environment in which the system will exist. These are criteria which define performance levels, scalability, security requirements, backup, disaster recovery and other operational requirements.

Figure 1: Requirements Model

<anonymous>

Note in package 'Requirements Model'

The Functional Requirements package details behavioral requirements that specify how a proposed system will process and handle information. It details the features and rules that must be present to fully implement the functionality desired.

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

<anonymous>

Note in package 'Requirements Model'

The Non-Functional Requirements package specifies the various operational parameters that define the environment in which the system will exist. These are criteria which define performance levels, scalability, security requirements, backup, disaster recovery and other operational requirements.

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed

</div>

created on 21/10/2015. Last modified 21/10/2015
Extends

Note

Note in package 'Requirements Model'

The Requirements model is a structured catalogue of end-user requirements. These are represented as either Requirement or Feature elements.

The model is divided into two sub-catalogues:

1. The Functional requirements package contains requirements and features that represent functional behavior and features that the system under development must support.

2. The Non-functional requirements package contains constraints and performance levels the system must meet. For example response times, transactions per second, security strength.

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

Non-Functional Requirements

Package in package 'Requirements Model'

Non-Functional Requirements
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Requisitos Funcionais

Package in package 'Requirements Model'

Requisitos Funcionais
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

$help://elementrelationshipmatrix.htm

Text in package 'Requirements Model'

$help://elementrelationshipmatrix.htm
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Alias Using the Relationship Matrix
Extends

$help://requirements_model_pattern.htm

Text in package 'Requirements Model'

$help://requirements_model_pattern.htm
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Alias Read about Requirements
Extends

$help://trace_requirements.htm

Text in package 'Requirements Model'

$help://trace_requirements.htm
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Alias Tracing element dependencies
Extends

Non-Functional Requirements

Package in package 'Requirements Model'

Non-Functional Requirements
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Non-Functional Requirements diagram

Custom diagram in package 'Non-Functional Requirements'

Non-Functional Requirements
Version 1.0
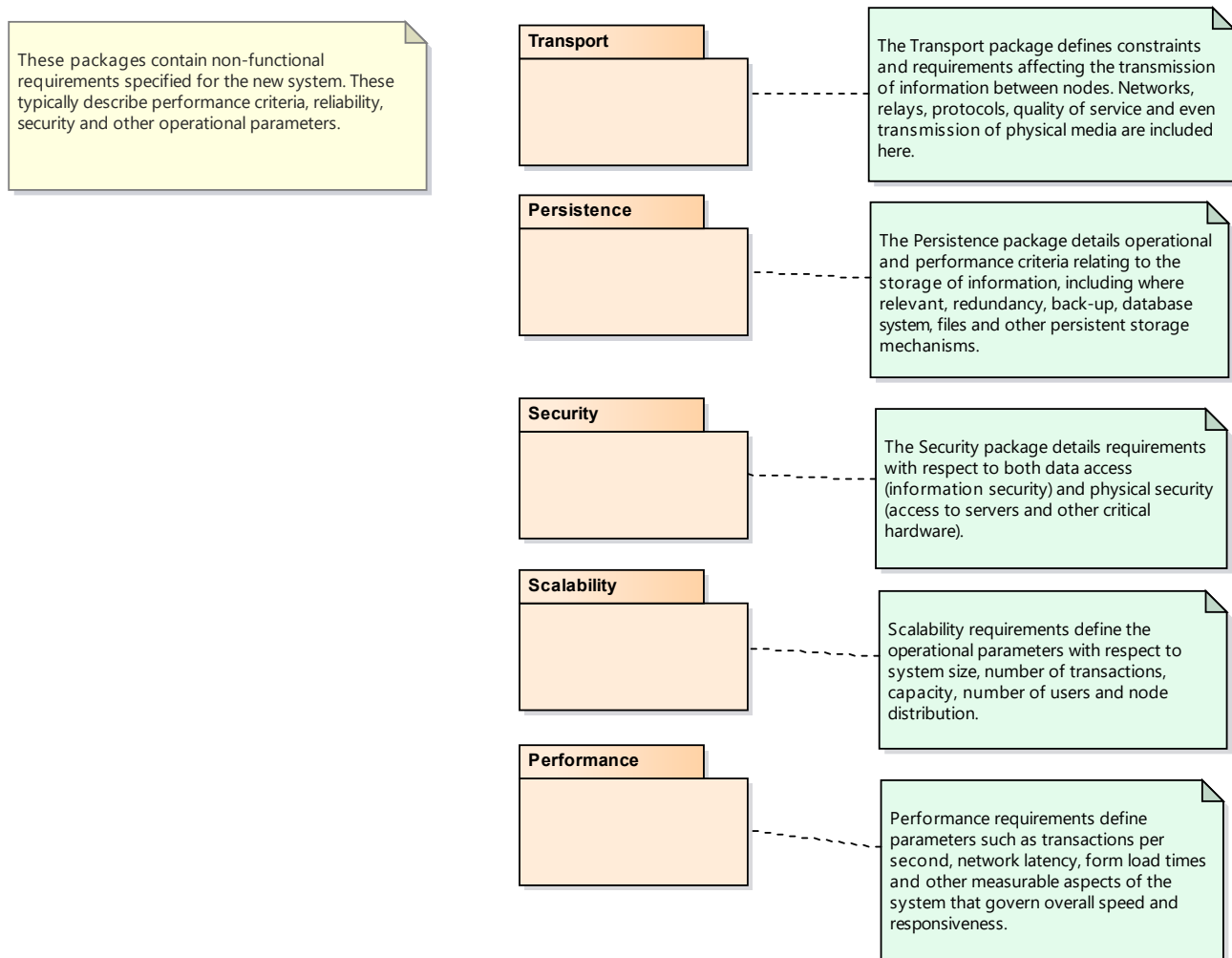jhoni created on 21/10/2015. Last modified 21/10/2015

These packages contain non-functional requirements specified for the new system. These typically describe performance criteria, reliability, security and other operational parameters.

Transport

The Transport package defines constraints and requirements affecting the transmission of information between nodes. Networks, relays, protocols, quality of service and even transmission of physical media are included here.

Persistence

The Persistence package details operational and performance criteria relating to the storage of information, including where relevant, redundancy, back-up, database system, files and other persistent storage mechanisms.

Security

The Security package details requirements with respect to both data access (information security) and physical security (access to servers and other critical hardware).

Scalability

Scalability requirements define the operational parameters with respect to system size, number of transactions, capacity, number of users and node distribution.

Performance

Performance requirements define parameters such as transactions per second, network latency, form load times and other measurable aspects of the system that govern overall speed and responsiveness.

Figure 2: Non-Functional Requirements

<anonymous>

Note in package 'Non-Functional Requirements'

Performance requirements define parameters such as transactions per second, network latency, form load times and other measurable aspects of the system that govern overall speed and responsiveness.

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

<anonymous>

Note in package 'Non-Functional Requirements'

Scalability requirements define the operational parameters with respect to system size, number of transactions, capacity, number of users and node distribution.

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

<anonymous>

Note in package 'Non-Functional Requirements'

The Transport package defines constraints and requirements affecting the transmission of information between nodes. Networks, relays, protocols, quality of service and even transmission of physical media are included here.

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

<anonymous>

Note in package 'Non-Functional Requirements'

The Persistence package details operational and performance criteria relating to the storage of information, including where relevant, redundancy, back-up, database system, files and other persistent storage mechanisms.

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

<anonymous>

Note in package 'Non-Functional Requirements'

The Security package details requirements with respect to both data access (information security) and physical security (access to servers and other critical hardware).

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

Note

Note in package 'Non-Functional Requirements'

These packages contain non-functional requirements specified for the new system. These typically describe performance criteria, reliability, security and other operational parameters.

<div align="right">

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

Performance

Package in package 'Non-Functional Requirements'

<div align="right">

Performance
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Scalability

Package in package 'Non-Functional Requirements'

Scalability
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Security

Package in package 'Non-Functional Requirements'

Security
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Persistence

Package in package 'Non-Functional Requirements'

Persistence
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Transport

Package in package 'Non-Functional Requirements'

Transport
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Performance

Package in package 'Non-Functional Requirements'

Performance
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Performance diagram

Custom diagram in package 'Performance'

Performance
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

Figure 3: Performance

Scalability

Package in package 'Non-Functional Requirements'

<div align="right">

Scalability
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Scalability diagram

Custom diagram in package 'Scalability'

<div align="right">

Scalability
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Figure 4: Scalability

Scalability

Package in package 'Non-Functional Requirements'

Security

Package in package 'Non-Functional Requirements'

<div align="right">

Security
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Security diagram

Custom diagram in package 'Security'

<div align="right">

Security
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Figure 5: Security

Security

Package in package 'Non-Functional Requirements'

Persistence

Package in package 'Non-Functional Requirements'

<div align="right">

Persistence
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Persistence diagram

Custom diagram in package 'Persistence'

<div align="right">

Persistence
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Figure 6: Persistence

Persistence

Package in package 'Non-Functional Requirements'

Transport

Package in package 'Non-Functional Requirements'

<div align="right">

Transport
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Transport diagram

Custom diagram in package 'Transport'

<div align="right">

Transport
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Figure 7: Transport

Package in package 'Non-Functional Requirements'

Requisitos Funcionais

Package in package 'Requirements Model'

<div align="right">

Requisitos Funcionais
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Functional Requirements diagram

Custom diagram in package 'Requisitos Funcionais'

<div align="right">

Functional Requirements
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Functional Requirements describe the features, behavior, business rules and general functionality that the proposed system must support.

Processo de vendas
+ Atualizar estoque de p
+ Atualizar o saldo de es

Cadastro de Produtos
+ Feature1

User Interface
+ Screen1
+ Screen2
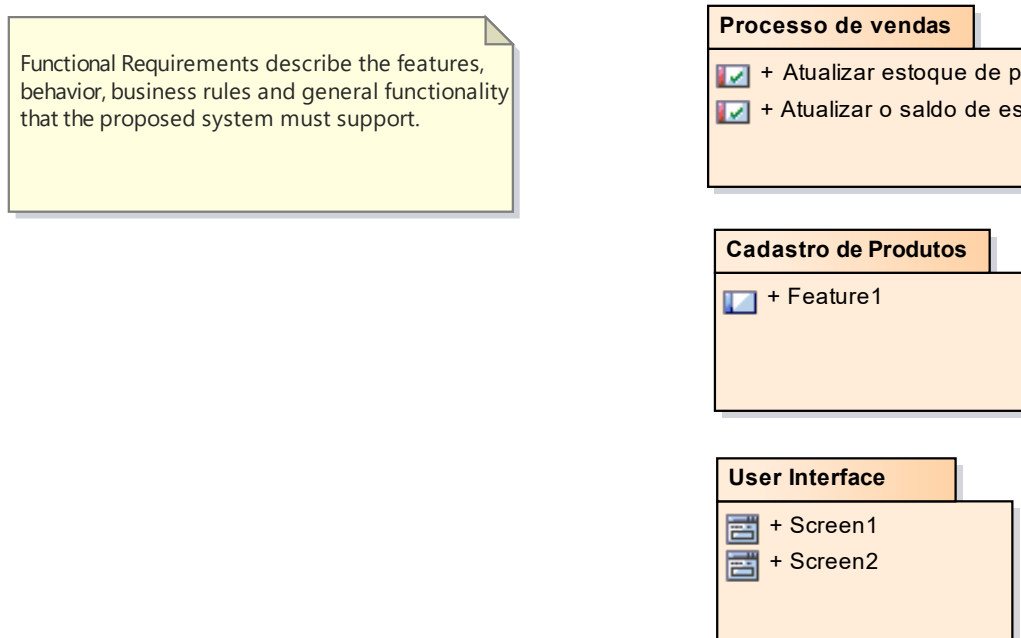
Figure 8: Functional Requirements

Note

Note in package 'Requisitos Funcionais'

Functional Requirements describe the features, behavior, business rules and general functionality that the proposed system must support.

<div align="right">

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

Processo de vendas

Package in package 'Requisitos Funcionais'

<div align="right">

Processo de vendas
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Cadastro de Produtos

Package in package 'Requisitos Funcionais'

The Features package contains

Cadastro de Produtos
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

User Interface

Package in package 'Requisitos Funcionais'

User Interface
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Processo de vendas

Package in package 'Requisitos Funcionais'

Processo de vendas
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Venda de Produtos diagram

Custom diagram in package 'Processo de vendas'

Venda de Produtos
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

The Business Rules package is a catalogue of explicit business rules which are required to be implemented within the current project. Business Rules are typically executed during program execution and control the processing of information and transactions.

Atualizar o saldo de estoque no estorno da venda

Atualizar estoque de produto no lançamento de venda

Figure 9: Venda de Produtos

Note

Note in package 'Processo de vendas'

The Business Rules package is a catalogue of explicit business rules which are required to be implemented within the current project. Business Rules are typically executed during program execution and control the processing of information and transactions.

<div align="right">

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

Atualizar estoque de produto no lançamento de venda

Requirement «Functional» in package 'Processo de vendas'

Toda vez que for realizada uma venda, o saldo de estoque do produto deve ser atualizado de acordo com a quantidade vendida

<div align="right">

Atualizar estoque de produto no lançamento de venda
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

Atualizar o saldo de estoque no estorno da venda

Requirement «Functional» in package 'Processo de vendas'

<div align="right">

Atualizar o saldo de estoque no estorno da venda
Version 1.0 Phase 1.0 Proposed
jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Cadastro de Produtos

Package in package 'Requisitos Funcionais'

The Features package contains

Cadastro de Produtos
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

Cadastro de Produtos diagram

Custom diagram in package 'Cadastro de Produtos'

Cadastro de Produtos
Version 1.0
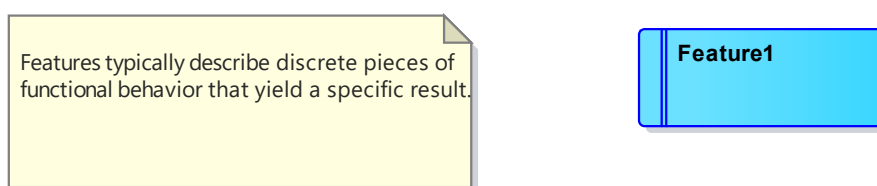jhoni created on 21/10/2015. Last modified 21/10/2015

Figure 10: Cadastro de Produtos

Note

Note in package 'Cadastro de Produtos'

Features typically describe discrete pieces of functional behavior that yield a specific result.

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

Excluir Produtos diagram

Requirements diagram in package 'Cadastro de Produtos'

Excluir Produtos
Version 1.0
jhoni created on 21/10/2015. Last modified 21/10/2015

Figure 11: Excluir Produtos

Feature1

Feature in package 'Cadastro de Produtos'

Feature1
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

User Interface

Package in package 'Requisitos Funcionais'

<div align="right">

User Interface
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015

</div>

User Interface diagram

Custom diagram in package 'User Interface'

<div align="right">

User Interface
Version 1.0
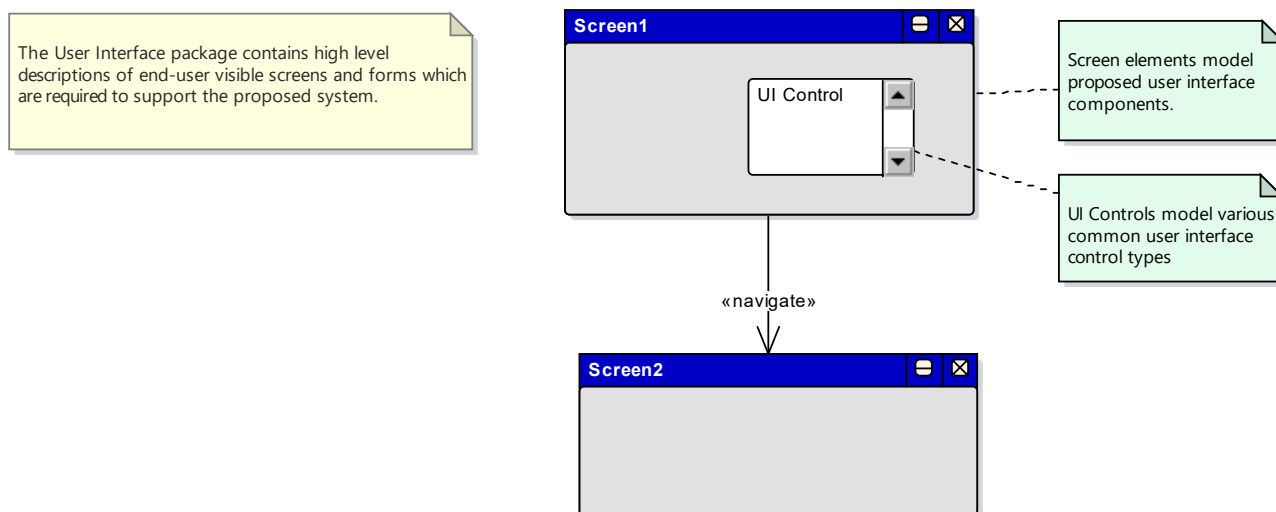jhoni created on 21/10/2015. Last modified 21/10/2015

</div>

Figure 12: User Interface

<anonymous>

Note in package 'User Interface'

Screen elements model proposed user interface components.

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

<anonymous>

Note in package 'User Interface'

UI Controls model various common user interface control types

<div align="right">

<anonymous>
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

</div>

Note

Note in package 'User Interface'

The User Interface package contains high level descriptions of end-user visible screens and forms which are required to support the proposed system.

Note
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

Screen1

Screen in package 'User Interface'

Screen1
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

UI Control

GUIElement «list» owned by 'Screen1', in package 'User Interface'

UI Control
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends

Screen2

Screen in package 'User Interface'

Screen2
Version 1.0 Phase 1.0 Proposed
created on 21/10/2015. Last modified 21/10/2015
Extends