

Use case

gggg

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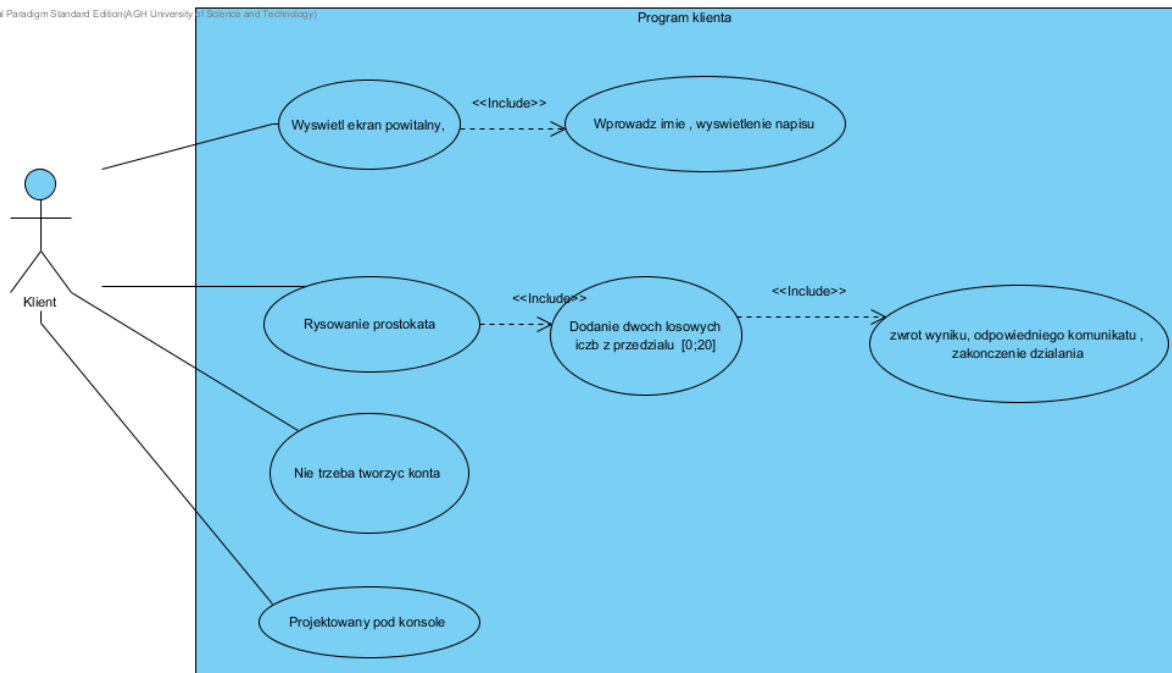
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Use Case Diagram

klient

Visual Paradigm Standard Edition (AGH University of Science and Technology)



Name	Value
Name	klient
Author	gggg
Create Date Time	2015-01-25 14:44:31
Last Modified	2015-01-25 18:50:45

Summary



Name	Documentation
Klient	
Program klienta	
Wyswietl ekran powitalny,	
Dodanie dwoch losowych iczb z przedzialu [0;20]	
zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	
Nie trzeba tworzyc konta	
Projektowany pod konsole	
Wprowadz imie , wyswietlenie napisu	
Rysowanie prostokata	

Details

Klient



Name	Value	
ID	AC01	
Visibility	public	
Abstract	false	
Leaf	false	
Root	false	
Business Model	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:44:51
	Last Modified	2015-01-25 16:21:13

Relationships



Unnamed Association		
To	Name	Value
	End Model Element	 Wyświetl ekran powitalny,
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Type	 Wyświetl ekran powitalny,
	Project Management	Name
		Value
		Author
Abstract	false	
Leaf	false	
Visibility	Unspecified	
Derived	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:46:56
	Last Modified	2015-01-25 14:55:52
Unnamed Association		

To	Name		Value			
	End Model Element		<input type="radio"/> Nie trzeba tworzyc konta			
	Provide Property Getter Method		false			
	Provide Property Setter Method		false			
	Multiplicity		Unspecified			
	Visibility		Unspecified			
	Aggregation Kind		None			
	Navigable		Navigable			
	Derived		false			
	Derived Union		false			
	Read Only		false			
	Static		false			
	Leaf		false			
	Type		<input type="radio"/> Nie trzeba tworzyc konta			
	Project Management		Name		Value	
			Author		gggg	
			Create Date Time		2015-01-25 15:00:10	
Abstract	false					
Leaf	false					
Visibility	Unspecified					
Derived	false					
Project Management	Name			Value		
	Author			gggg		
	Create Date Time			2015-01-25 15:00:10		
	Last Modified			2015-01-25 15:01:52		

Unnamed Association

To	Name		Value
	End Model Element	 Projektowany pod konsole	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Type	 Projektowany pod konsole	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 15:13:29
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 15:13:29	
	Last Modified	2015-01-25 15:15:02	








Unnamed Association

To	Name		Value
	End Model Element		 Rysowanie prostokata
	Provide Property Getter Method		false
	Provide Property Setter Method		false
	Multiplicity		Unspecified
	Visibility		Unspecified
	Aggregation Kind		None
	Navigable		Navigable
	Derived		false
	Derived Union		false
	Read Only		false
	Static		false
	Leaf		false
	Type		 Rysowanie prostokata
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:16:33
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name		Value
	Author		gggg
	Create Date Time		2015-01-25 16:16:33
	Last Modified		2015-01-25 16:21:13

Program klienta

Name	Value	
Abstract	false	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:45:10
	Last Modified	2015-01-25 16:21:13


Children



Name	Documentation
 Wyświetl ekran powitalny,	
 Dodanie dwóch losowych iczb z przedziału [0;20]	
 zwrot wyniku, odpowiedniego komunikatu , zakończenie działania	
 Nie trzeba tworzyć konta	
 Projektowany pod konsolę	
 Wprowadz imię , wyświetlenie napisu	
 Rysowanie prostokąta	

Wyświetl ekran powitalny,

Name	Value	
ID	UC01	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:45:47
	Last Modified	2015-01-25 18:41:08

Relationships

Unnamed Include		
To	 Wprowadz imię , wyświetlenie napisu	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:13:27
	Last Modified	2015-01-25 16:21:13
Unnamed Association		



From	Name		Value
	End Model Element	 Klient	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Type	 Klient	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 14:46:56
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 14:46:56	
	Last Modified	2015-01-25 14:55:52	

Dodanie dwóch losowych iczb z przedziału [0;20]

Name	Value
ID	UC03
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase
Business Model	false
Status	Identify
Rank	Unspecified

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:50:05
	Last Modified	2015-01-25 18:41:08

Relationships


Unnamed Include		
To	 zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:54:39
	Last Modified	2015-01-25 14:55:52
Unnamed Include		
From	 Rysowanie prostokata	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:16:45
	Last Modified	2015-01-25 16:21:13

 **zwrot wyniku, odpowiedniego komunikatu ,
zakonczenie dzialania**

Name	Value	
ID	UC04	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:54:02
	Last Modified	2015-01-25 18:41:08

Relationships

Unnamed Include		
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From	 Dodanie dwóch losowych iczb z przedziału [0;20]	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:54:39
	Last Modified	2015-01-25 14:55:52

Nie trzeba tworzyć konta

Name	Value	
ID	UC06	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 14:59:29
	Last Modified	2015-01-25 18:41:08

Relationships

Unnamed Association



From	Name		Value
	End Model Element	 Klient	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Type	 Klient	
	Project Management	Name	Value
		Author	ggggg
		Create Date Time	2015-01-25 15:00:10
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Author	ggggg	
	Create Date Time	2015-01-25 15:00:10	
	Last Modified	2015-01-25 15:01:52	

Projektowany pod konsole

Name	Value
ID	UC07
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase
Business Model	false
Status	Identify
Rank	Unspecified

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 15:10:24
	Last Modified	2015-01-25 15:15:02

Relationships


Unnamed Association			
From	Name	Value	
	End Model Element	 Klient	
	Provide Property Getter Method	false	
	Provide Property Setter Method	false	
	Multiplicity	Unspecified	
	Visibility	Unspecified	
	Aggregation Kind	None	
	Navigable	Navigable	
	Derived	false	
	Derived Union	false	
	Read Only	false	
	Static	false	
	Leaf	false	
	Type	 Klient	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 15:13:29
Abstract	false		
Leaf	false		
Visibility	Unspecified		
Derived	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 15:13:29	
	Last Modified	2015-01-25 15:15:02	

Wprowadz imie , wyswietlenie napisu

Name	Value
ID	UC09
Abstract	false
Leaf	false
Root	false
Stereotypes	UseCase

Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:13:08
	Last Modified	2015-01-25 18:41:08


Relationships



Unnamed Include		
From	 Wyświetl ekran powitalny,	
Visibility	Unspecified	
Stereotypes	Include	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:13:27
	Last Modified	2015-01-25 16:21:13

Rysowanie prostokata

Name	Value	
ID	UC10	
Abstract	false	
Leaf	false	
Root	false	
Stereotypes	UseCase	
Business Model	false	
Status	Identify	
Rank	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:16:09
	Last Modified	2015-01-25 16:21:13

Relationships

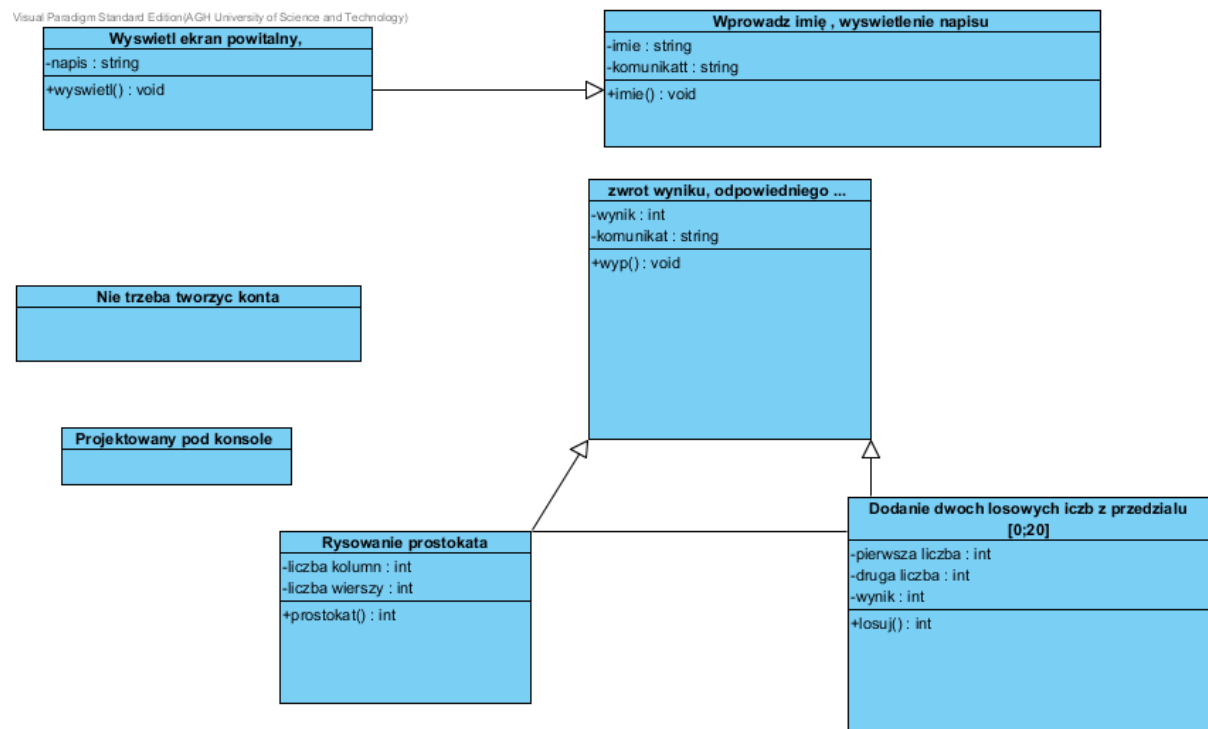
Unnamed Include		
To	 Dodanie dwóch losowych iczb z przedziału [0;20]	
Visibility	Unspecified	
Stereotypes	Include	

Project Management	Name		Value			
	Author		gggg			
	Create Date Time		2015-01-25 16:16:45			
	Last Modified		2015-01-25 16:21:13			
Unnamed Association						
From	Name		Value			
	End Model Element		 Klient			
	Provide Property Getter Method		false			
	Provide Property Setter Method		false			
	Multiplicity		Unspecified			
	Visibility		Unspecified			
	Aggregation Kind		None			
	Navigable		Navigable			
	Derived		false			
	Derived Union		false			
	Read Only		false			
	Static		false			
	Leaf		false			
	Type		 Klient			
	Project Management		Name		Value	
			Author		gggg	
			Create Date Time		2015-01-25 16:16:33	
Abstract	false					
Leaf	false					
Visibility	Unspecified					
Derived	false					
Project Management	Name			Value		
	Author			gggg		
	Create Date Time			2015-01-25 16:16:33		
	Last Modified			2015-01-25 16:21:13		

Class Diagram

klient - diagram klas

Visual Paradigm Standard Edition (AGH University of Science and Technology)



Name	Value
Name	klient - diagram klas
Author	gggg
Create Date Time	2015-01-25 15:29:04
Last Modified	2015-01-25 18:50:47

Summary


Name	Documentation
Wprowadz imi# , wyswietlenie napisu	
Wyświetl ekran powitalny,	
zwrot wyniku, odpowiedniego komunikatu , zakoczenie działania	
Nie trzeba tworzyć konta	
Projektowany pod konsolę	
Dodanie dwóch losowych iczb z przedziału [0;20]	
Rysowanie prostokata	


Details

Wprowadz imi# , wyswietlenie napisu

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:18:52
	Last Modified	2015-01-25 18:41:08

Attributes

private imie : string			
Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:19:12	
	Last Modified	2015-01-25 16:21:13	


private komunikatt : string			
Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:25:40
	Last Modified	2015-01-25 16:31:38

Operations

public imie () : void		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:19:23
	Last Modified	2015-01-25 18:18:39

Relationships


Unnamed Generalization		
To	 Wyswietl ekran powitalny,	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:28:51
	Last Modified	2015-01-25 16:31:38

Wyswietl ekran powitalny,

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:17:56
	Last Modified	2015-01-25 18:41:08

Attributes


private napis : string

Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:18:23	
	Last Modified	2015-01-25 16:21:13	

Operations

public wyswietl () : void		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:18:33
	Last Modified	2015-01-25 18:18:39

Relationships


Unnamed Generalization		
From	 Wprowadz imi# , wyswietlenie napisu	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:28:51
	Last Modified	2015-01-25 16:31:38


 **zwrot wyniku, odpowiedniego komunikatu ,
zakoczenie dzialania**

Name	Value
Active	false
Business Key Mutable	true

Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:22:15
	Last Modified	2015-01-25 18:41:08

Attributes



private wynik : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:22:48	
	Last Modified	2015-01-25 16:31:38	

private komunikat : string			
Type	 string		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:23:15	
	Last Modified	2015-01-25 16:31:38	

Operations

public wyp () : void		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:23:34
	Last Modified	2015-01-25 18:18:39

Relationships

Unnamed Generalization		
To	 Rysowanie prostokata	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:27:24
	Last Modified	2015-01-25 16:31:38
Unnamed Generalization		
To	 Dodanie dwóch losowych iczb z przedzialu [0;20]	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:27:44
	Last Modified	2015-01-25 16:31:38

Nie trzeba tworzyć konta

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Leaf	false
Root	false

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 18:46:40
	Last Modified	2015-01-25 18:46:53


Projektowany pod konsole

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 18:47:13
	Last Modified	2015-01-25 18:47:14


Dodanie dwóch losowych iczb z przedziału [0;20]


Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:21:10
	Last Modified	2015-01-25 18:41:08

Attributes

private pierwsza liczba : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		

Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:21:20	
	Last Modified	2015-01-25 16:31:38	


private druga liczba : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:21:30	
	Last Modified	2015-01-25 16:31:38	



private wynik : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:21:35	
	Last Modified	2015-01-25 16:31:38	

Operations

public losuj () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:21:46
	Last Modified	2015-01-25 18:18:39

Relationships

Unnamed Generalization		
From	 zwrot wyniku, odpowiedniego komunikatu , zakoczenie dzialania	
Substitutable	false	
Visibility	Unspecified	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:27:44
	Last Modified	2015-01-25 16:31:38


Unnamed Association		
From	Name	Value
	End Model Element	 Rysowanie prostokata
	Provide Property Getter Method	false
	Provide Property Setter Method	false
	Multiplicity	Unspecified
	Visibility	Unspecified
	Aggregation Kind	None
	Navigable	Navigable
	Derived	false
	Derived Union	false
	Read Only	false
	Static	false
	Leaf	false
	Type	 Rysowanie prostokata
	Project Management	Name
		Value
		Author
Abstract	false	
Leaf	false	
Visibility	Unspecified	


Derived	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:28:14
	Last Modified	2015-01-25 16:31:38

Rysowanie prostokata

Name	Value	
Active	false	
Business Key Mutable	true	
Business Model	false	
Visibility	public	
Leaf	false	
Root	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:19:54
	Last Modified	2015-01-25 18:18:39

Attributes

private liczba kolumn : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:20:04	
	Last Modified	2015-01-25 16:21:13	

private liczba wierszy : int			
Type	 int		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		




Multiplicity	Unspecified	
Aggregation	None	
Derived Union	false	
Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:20:11
	Last Modified	2015-01-25 16:21:13

Operations

public prostokat () : int		
Leaf	false	
Ordered	false	
Unique	true	
Query	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:20:28
	Last Modified	2015-01-25 18:18:39

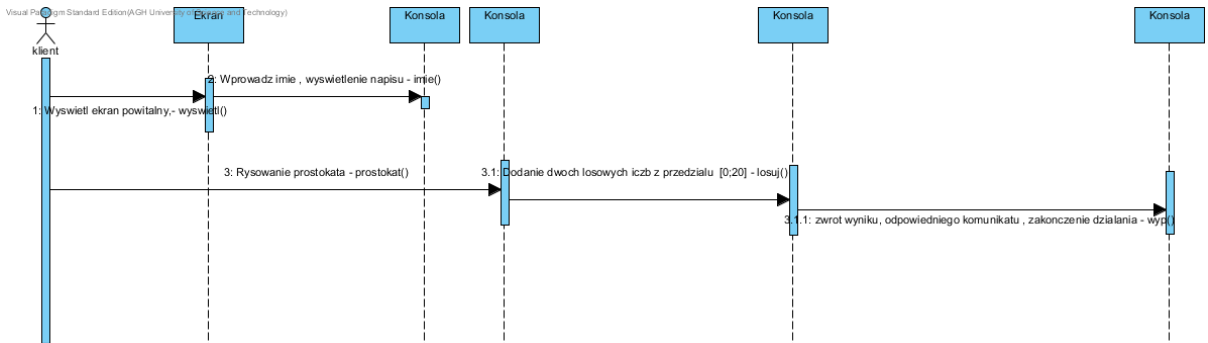
Relationships

Unnamed Association

To	Name		Value	
	End Model Element		 Dodanie dwóch losowych iczb z przedziału [0;20]	
	Provide Property Getter Method		false	
	Provide Property Setter Method		false	
	Multiplicity		Unspecified	
	Visibility		Unspecified	
	Aggregation Kind		None	
	Navigable		Navigable	
	Derived		false	
	Derived Union		false	
	Read Only		false	
	Static		false	
	Leaf		false	
	Type		 Dodanie dwóch losowych iczb z przedziału [0;20]	
	Project Management		Name	
			Value	
Author				
		gggg		
		Create Date Time		
		2015-01-25 16:28:14		
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:28:14	
	Last Modified		2015-01-25 16:31:38	
Unnamed Generalization				
From	 zwrot wyniku, odpowiedniego komunikatu , zakoczenie dzialania			
Substitutable	false			
Visibility	Unspecified			
Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:27:24	
	Last Modified		2015-01-25 16:31:38	

Sequence Diagram

klient - diagram sekwencji



Name	Value
Name	klient - diagram sekwencji
Author	gggg
Create Date Time	2015-01-25 16:32:59
Last Modified	2015-01-25 18:50:51
Show Parameter Types In Message Operation Signature	true

Summary

Name	Documentation
klient	
Ekran	
Konsola	
Konsola	
Konsola	
Konsola	



Details

klient

Name	Value
Visibility	public
Abstract	false
Leaf	false
Root	false
Active	false
Business Model	false

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:35:22
	Last Modified	2015-01-25 16:52:36

Relationships



Wyświetl ekran powitalny,- wyświetl() : Message			
To	Name	Value	
	End Model Element	 Ekran	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:39:07
Type	Message		
Sequence Number	1		
Asynchronous	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:39:07	
	Last Modified	2015-01-25 18:44:09	
Rysowanie prostokata - prostokat() : Message			
To	Name	Value	
	End Model Element	 Konsola	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:46:10
Type	Message		
Sequence Number	3		
Asynchronous	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:46:10	
	Last Modified	2015-01-25 17:02:37	

Ekran

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:39:07
	Last Modified	2015-01-25 16:52:36

Relationships

Wprowadz imie , wyswietlenie napisu - imie() : Message			
To	Name	Value	
	End Model Element	 Konsola	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:42:52
Type	Message		
Sequence Number	2		
Asynchronous	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:42:52	
	Last Modified	2015-01-25 18:44:16	
Wyswietl ekran powitalny,- wyswietl() : Message			
From	Name	Value	
	End Model Element	 klient	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:39:07
Type	Message		
Sequence Number	1		
Asynchronous	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:39:07	
	Last Modified	2015-01-25 18:44:09	




Konsola

Name	Value
Multiplicity	Unspecified
Active	false
Stopped	false
Multi Object	false

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:42:52
	Last Modified	2015-01-25 16:52:36

Relationships


Wprowadz imie , wyswietlenie napisu - imie() : Message			
From	Name	Value	
	End Model Element	 Ekran	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:42:52
Type	Message		
Sequence Number	2		
Asynchronous	false		
Project Management	Name	Value	
	Author	gggg	
	Create Date Time	2015-01-25 16:42:52	
	Last Modified	2015-01-25 18:44:16	




Konsola

Name	Value	
Multiplicity	Unspecified	
Active	false	
Stopped	false	
Multi Object	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:46:10
	Last Modified	2015-01-25 16:52:36

Relationships

Dodanie dwóch losowych iczb z przedzialu [0;20] - losuj() : Message			
To	Name	Value	
	End Model Element	 Konsola	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:46:36
Type	Message		
Sequence Number	3.1		
Asynchronous	false		


Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:46:36	
	Last Modified		2015-01-25 18:44:34	
Rysowanie prostokata - prostokat() : Message				
From	Name		Value	
	End Model Element		 klient	
	Project Management	Name		Value
		Author		gggg
		Create Date Time		2015-01-25 16:46:10
Type	Message			
Sequence Number	3			
Asynchronous	false			
Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:46:10	
	Last Modified		2015-01-25 17:02:37	




Konsola

Name	Value	
Multiplicity	Unspecified	
Active	false	
Stopped	false	
Multi Object	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:46:36
	Last Modified	2015-01-25 16:52:36

Relationships


zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania - wyp() : Message			
To	Name	Value	
	End Model Element	 Konsola	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:49:16
Type	Message		
Sequence Number	3.1.1		
Asynchronous	false		

Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:49:16	
	Last Modified		2015-01-25 18:44:53	
Dodanie dwóch losowych iczb z przedziału [0;20] - losuj() : Message				
From	Name		Value	
	End Model Element		 Konsola	
	Project Management	Name		Value
		Author		gggg
		Create Date Time		2015-01-25 16:46:36
Type	Message			
Sequence Number	3.1			
Asynchronous	false			
Project Management	Name		Value	
	Author		gggg	
	Create Date Time		2015-01-25 16:46:36	
	Last Modified		2015-01-25 18:44:34	

Konsola

Name	Value	
Multiplicity	Unspecified	
Active	false	
Stopped	false	
Multi Object	false	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:49:16
	Last Modified	2015-01-25 16:52:36

Relationships

zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania - wyp() : Message			
From	Name	Value	
	End Model Element	 Konsola	
	Project Management	Name	Value
		Author	gggg
		Create Date Time	2015-01-25 16:49:16
Type	Message		
Sequence Number	3.1.1		
Asynchronous	false		

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 16:49:16
	Last Modified	2015-01-25 18:44:53

CRC Card Diagram

CRC Card Diagram2

Visual Paradigm Standard Edition (AGI University of Science and Technology)

Wyswietl ekran powitalny,	
Sub Classes:	
Description: Wyświetlenie ekranu powitalnego	
Attributes:	
Name	Description
napis	Wyświetlenie napisu
Responsibilities:	
Name	Collaborator
Wprowadz imie , wyswietlenie napisu	Wyświetlanie napisu

Dodanie dwóch losowych iczb z przedziału [0;20]	
Description: Dodawanie dwóch losowych iczb z przedziału [0;20]	
Attributes:	
Name	Description
pierwsza liczba	pierwszy czynnik sumy
druga liczba	drugi czynnik sumy
wynik	wynik sumy
Responsibilities:	
Name	Collaborator
zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	Udostępnienie wyniku






Wprowadz imie , wyswietlenie napisu	
Sub Classes:	
Description: Wprowadzenie imienia , wyswietlenie konkretnego powitania	
Attributes:	
Name	Description
imie	Imie uzytkownika
Responsibilities:	
Name	Collaborator
Wyswietl ekran powitalny , Wyswietlanie napisu	Wyświetlanie napisu

zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	
Description: Zwrot wyniku sumy , wyswietlenie odpowiedniego komunikatu , zakonczenie pracy programu	
Attributes:	
Name	Description
wynik	wynik sumy
komunikat	komunikat
Responsibilities:	
Name	Collaborator

Rysowanie prostokata	
Description: Rysowanie prostokata o podanych wymiarach	
Attributes:	
Name	Description
liczba kolumn	Informacja o liczbie kolumn
liczba wierszy	Informacja o liczbie wierszy
Responsibilities:	
Name	Collaborator
Dodanie dwóch losowych iczb z przedziału [0;20]	liczenie sumy

Name	Value
Name	CRC Card Diagram2
Author	gggg
Create Date Time	2015-01-25 15:19:11
Last Modified	2015-01-25 18:47:51

Summary

Name	Documentation
 Wyswietl ekran powitalny,	Wyświetlenie ekranu powitalnego
 Wprowadz imie , wyswietlenie napisu	Wprowadzenie imienia , wyswietlenie konkretnego powitania
 Rysowanie prostokata	Rysowanie prostokata o podanych wymiarach
 Dodanie dwóch losowych iczb z przedziału [0;20]	Dodawanie dwóch losowych liczb z przedzia#lu [0;20]
 zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	Zwrot wyniku sumy , wyswietlenie odpowiedniego komunikatu , zakonczenie pracy programu

Details

Wyswietl ekran powitalny,

Name	Value
Documentation	Wyświetlenie ekranu powitalnego

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:56:21
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Description
napis	Wyswietlenie napisu

Responsibilities

Name	Collaborator
Wprowadz imie , wyswietlenie napisu	Wyswietlanie napisu



Wprowadz imie , wyswietlenie napisu

Name	Value	
Documentation	Wprowadzenie imienia , wyswietlenie konkretnego powitania	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:51:53
	Last Modified	2015-01-25 18:42:43

Attributes

Name	Description
imie	Imie uzytkownika

Responsibilities

Name	Collaborator
Wyswietl ekran powitalny,	Wyswietlanie napisu



Rysowanie prostokata

Name	Value	
Documentation	Rysowanie prostokata o podanych wymiarach	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:59:55
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Description
liczba kolumn	Informacja o liczbie kolumn
liczba wierszy	Informacja o liczbie wierszy

Responsibilities

Name	Collaborator
Dodanie dwóch losowych iczb z przedziału [0;20]	liczenie sumy

Dodanie dwóch losowych iczb z przedziału [0;20]

Name	Value	
Documentation	Dodawanie dwóch losowych liczb z przedzia#lu [0;20]	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 18:02:05
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Description
pierwsza liczba	pierwszy czynnik sumy
druga liczba	drugi czynnik sumy
wynik	wynik sumy

Responsibilities

Name	Collaborator
zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania	Udostepnienie wyniku

zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzialania

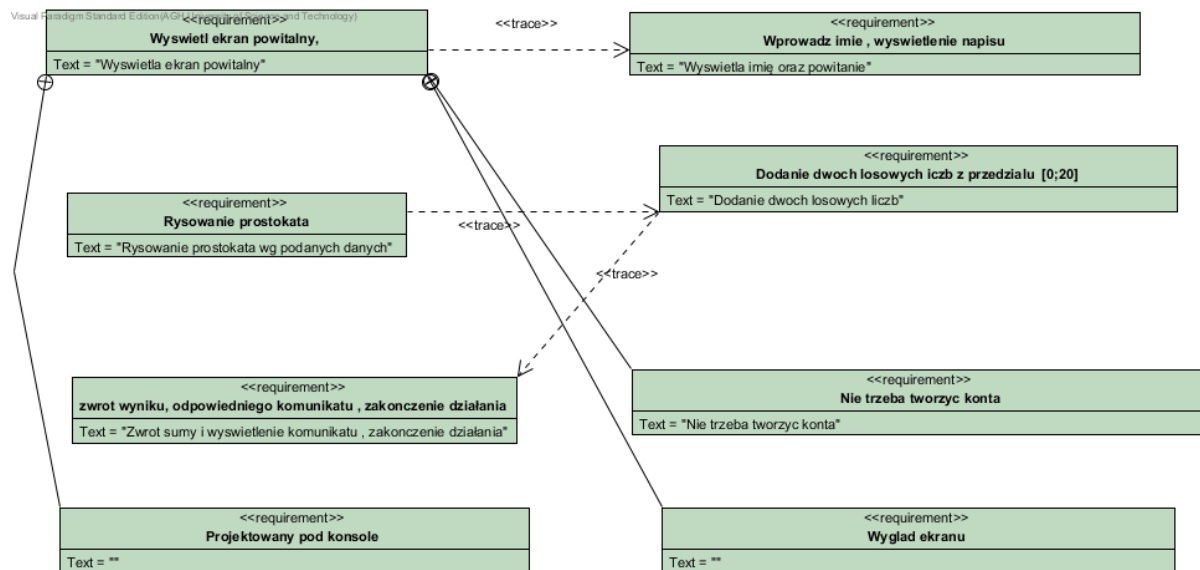
Name	Value	
Documentation	Zwrot wyniku sumy , wyswietlenie odpowiedniego komunikatu , zakonczenie pracy programu	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 18:04:46
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Description
wynik	wynik sumy
komunikat	komunikat

Requirement Diagram

klient - diagram wymaga#



Name	Value
Name	klient - diagram wymaga#
Author	gggg
Create Date Time	2015-01-25 17:31:50
Last Modified	2015-01-25 18:47:08

Summary

Name	Documentation
Wyswietl ekran powitalny,	Wyswietla ekran powitalny
Wprowadz imie , wyswietlenie napisu	Wyswietla imi# oraz powitanie
Dodanie dwoch losowych iczb z przedzialu [0;20]	Dodanie dwoch losowych liczb
Rysowanie prostokata	Rysowanie prostokata wg podanych danych
Nie trzeba tworzyc konta	Nie trzeba tworzyc konta
zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzia#ania	Zwrot sumy i wyswietlenie komunikatu , zakonczenie dzia#ania
Projektowany pod konsole	
Wyglad ekranu	

Details

Wyswietl ekran powitalny,


Name	Value
Documentation	Wyswietla ekran powitalny

ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:06:00
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	Wyswietla ekran powitalny
kind	Functional
verifyMethod	Test
risk	High
status	Deferred

Relationships

Unnamed Trace		
To	 Wprowadz imie , wyswietlenie napisu	
Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:43:44
	Last Modified	2015-01-25 17:48:39




Wprowadz imie , wyswietlenie napisu

Name	Value	
Documentation	Wyswietla imi# oraz powitanie	
ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:12:42
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	Wyswietla imi# oraz powitanie

Relationships

Unnamed Trace	
From	 Wyswietl ekran powitalny,

Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:43:44
	Last Modified	2015-01-25 17:48:39



Dodanie dwóch losowych iczb z przedziału [0;20]

Name	Value	
Documentation	Dodanie dwóch losowych liczb	
ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:16:30
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	Dodanie dwóch losowych liczb

Relationships

Unnamed Trace		
To	 zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzia#ania	
Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:42:30
	Last Modified	2015-01-25 17:48:39
Unnamed Trace		
From	 Rysowanie prostokata	
Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:42:07
	Last Modified	2015-01-25 17:48:39

Rysowanie prostokata


Name	Value
Documentation	Rysowanie prostokata wg podanych danych

ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:15:38
	Last Modified	2015-01-25 17:48:39

Attributes

Name	Value
Text	Rysowanie prostokata wg podanych danych

Relationships

Unnamed Trace		
To	 Dodanie dwóch losowych iczb z przedzialu [0;20]	
Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:42:07
	Last Modified	2015-01-25 17:48:39

Nie trzeba tworzyc konta

Name	Value	
Documentation	Nie trzeba tworzyc konta	
ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:23:20
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	Nie trzeba tworzyc konta

zwrot wyniku, odpowiedniego komunikatu , zakonczenie dzia#ania


Name	Value
Documentation	Zwrot sumy i wyswietlenie komunikatu , zakonczenie dzia#ania
ID	
Stereotypes	requirement

Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:17:09
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	Zwrot sumy i wyswietlenie komunikatu , zakonczenie dzia#ania

Relationships

Unnamed Trace		
From	 Dodanie dwóch losowych iczb z przedziału [0;20]	
Stereotypes	trace	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:42:30
	Last Modified	2015-01-25 17:48:39



Projektowany pod konsole

Name	Value	
ID		
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:23:51
	Last Modified	2015-01-25 17:48:39

Attributes

Name	Value
Text	



Wyglad ekranu

Name	Value	
ID	REQ034	
Stereotypes	requirement	
Project Management	Name	Value
	Author	gggg
	Create Date Time	2015-01-25 17:38:17
	Last Modified	2015-01-25 18:41:08

Attributes

Name	Value
Text	
ID	REQ034