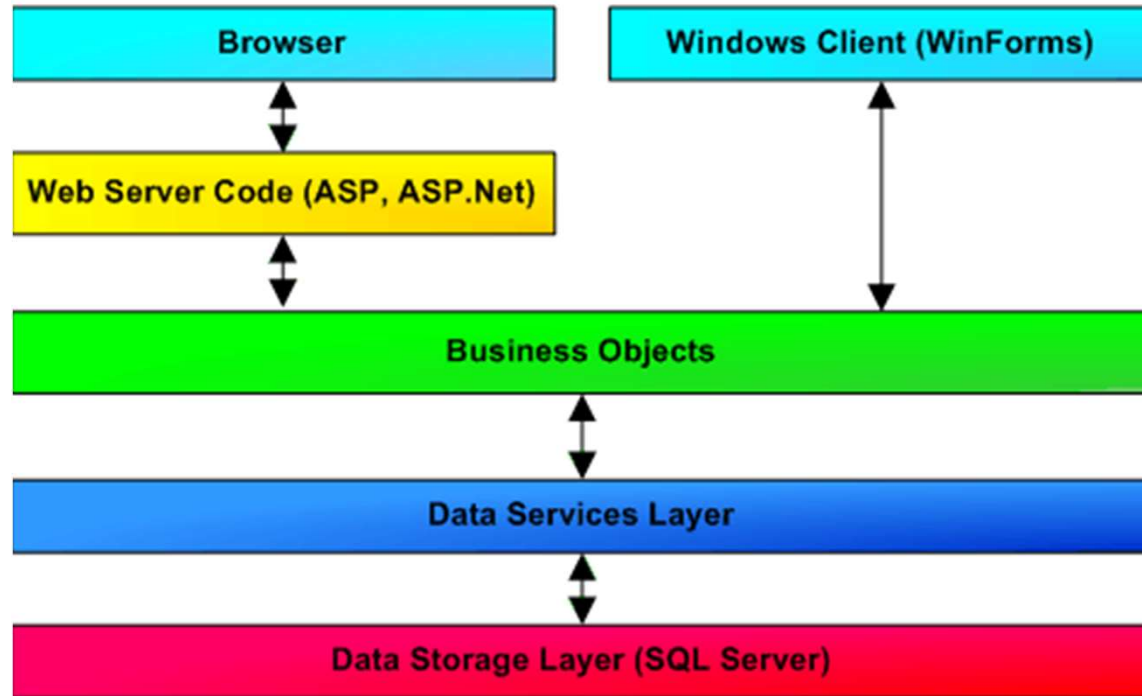


Projeto parte III

(enquadramento)

Programando em camadas

Programando em camadas



vantagens vs desvantagens



Programando em camadas

- Porquê usar stored procedures?
 - Remove o código SQL das outras camadas do aplicativo
 - Previne ataques SQL injection
 - Evita procura e modificações de dados



CRUD

CRUD

- **Create, Read, Update e Delete**

Create

INSERT



Read (Retrieve)

SELECT



Update

UPDATE



Delete (Destroy)

DELETE



CRUD

- Mapear entidades com casos de utilização



Use Case \ Entity	Order	Chemical	Requester	Vendor Catalog
Place Order	C	R	R	R, L
Change Order	U, D		R	R, L
Manage Chemical Inventory		C, U, D		
Report on Orders	R	R, L	R, L	
Edit Requesters			C, U, L	

<https://www.slideshare.net/VenkadeshNarayananMB/identifying-stakeholders>

CRUD

- Mapear entidades com casos de utilização



Data Entity	CRUD	Resulting Use Case
Customer	Create	Add New Customer
	Read/Report	Find Customer
		Generate Customer List
	Update	Update Customer Information
	Delete	Delete inactive customer
Order	Create	Create New Order
	Read/Report	View Order
		View Order History
	Update	Update Order
	Delete	Cancel Order

<https://businessanalystlearnings.com/ba-techniques/2013/3/13/techniques-for-identifying-use-cases>

CRUD

- Mapear entidades com funcionalidade

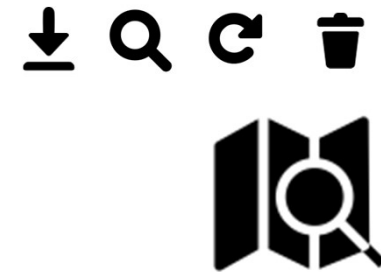


Entity Process	Customer	Customer Order	Customer Account	Customer Invoice	Vendor Invoice	Product
Receive CustomerOrder	R	C	CR			
Process CustomerOrder	CRU		RU			R
Maintain CustomerOrder	U		U		RU	
Terminate CustomerAccount	U		U		RU	
Fill CustomerOrder	RU		RU			RU
Ship CustomerOrder			U		C	
Validate Vendor Invoices					R	
Pay Vendor Invoices					RU	
Invoice Customer	RU		RU	C		
Maintain Inventory						CRUD

<http://it.toolbox.com/blogs/enterprise-solutions/building-crud-diagrams-15327>

CRUD

- Mapear entidades com funcionalidade



Business Activity Names	Data Entities										
	Arrest Event	Arresting (Booking) Officer	Associate	Biometrics	Booking Event	Detention Location	FBI ID Record "Bag Sheet"	Individual Case	Subject	Technology Resources	Vehicles
Component Level Activities											
Create a New Booking Record	R*	R*	C	C	C	R*	C	R*	C		C
Update an Existing Booking Record	R	R	RUD	RUD	RUD	R	RUD	R	RUD		RUD
Query JABS/IAFIS for Existing Booking Information	R	R	R	R	R	R	R	R	R		R
Manage the Component Level Booking Station										CRUD	
Department-Level Activities											
Provide Department-wide Program Management for JABS										CRUD	
Provide Department-wide Technical Support for JABS										CRUD	

Legend: C - Create, R - Reference, U - Update, D - Delete

* Some data entities are created by activities that are out of the scope of this analysis

https://www.justice.gov/archive/jmd/irm/imss/2002itplan/appendix_f.htm

CRUD

- Matrices CRUD permitem a análise de:
 - Rastreabilidade
 - Existe pelo menos um CRUD para cada entidade?
 - Cada funcionalidade interage com pelo menos uma entidade?
 - Cobertura
 - Cluster





Projeto parte III