Software Engineering Video on line

Requirements

- The company VIDEONLINE wants to buy a Web application to manage the rental of its movie media (VHS, DVD, Blue ray, Violet ray...)
- The rental of products is allowed only to registered users that are provided with a prepaid magnetic card
- For each rented media the magnetic card value it is reduced by the amount corresponding to a hourly rate
- The system allow the customer to make reservations of media on the Web through authentication with ID and password and to collect the media within 45 minutes

Prototype

Home page

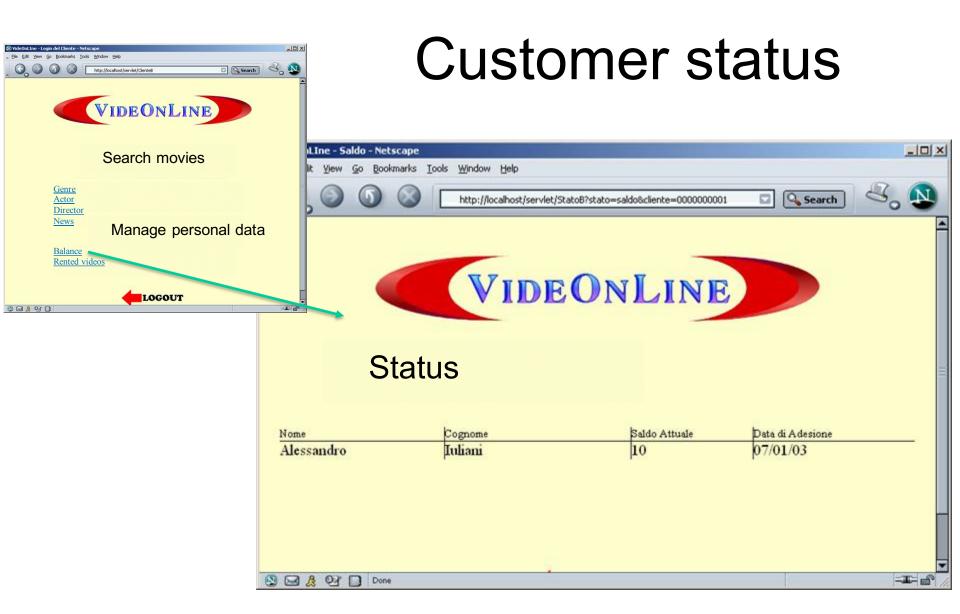


Login utente



Customer functionalities



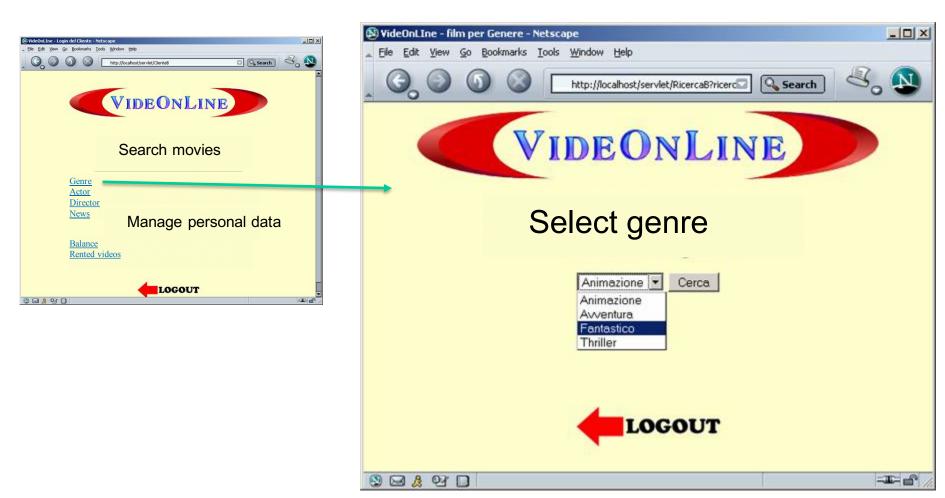




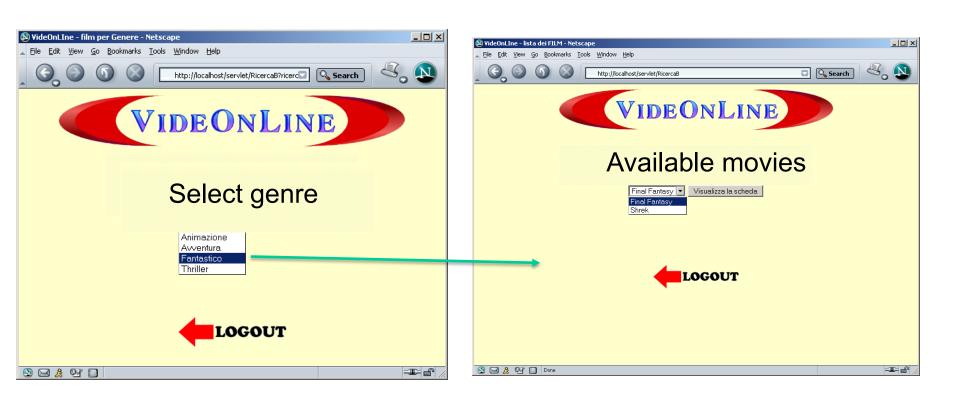
Rented media



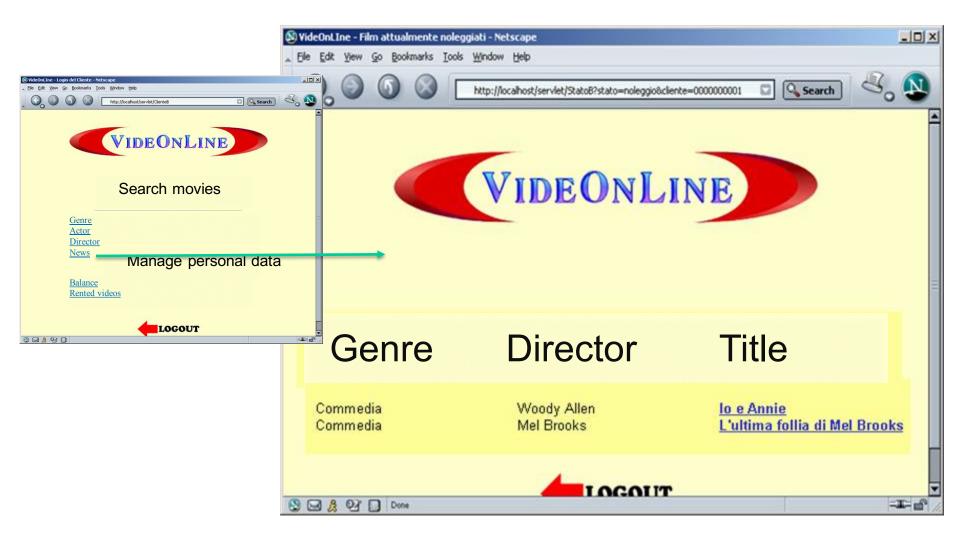
Search for genre, actor, or director

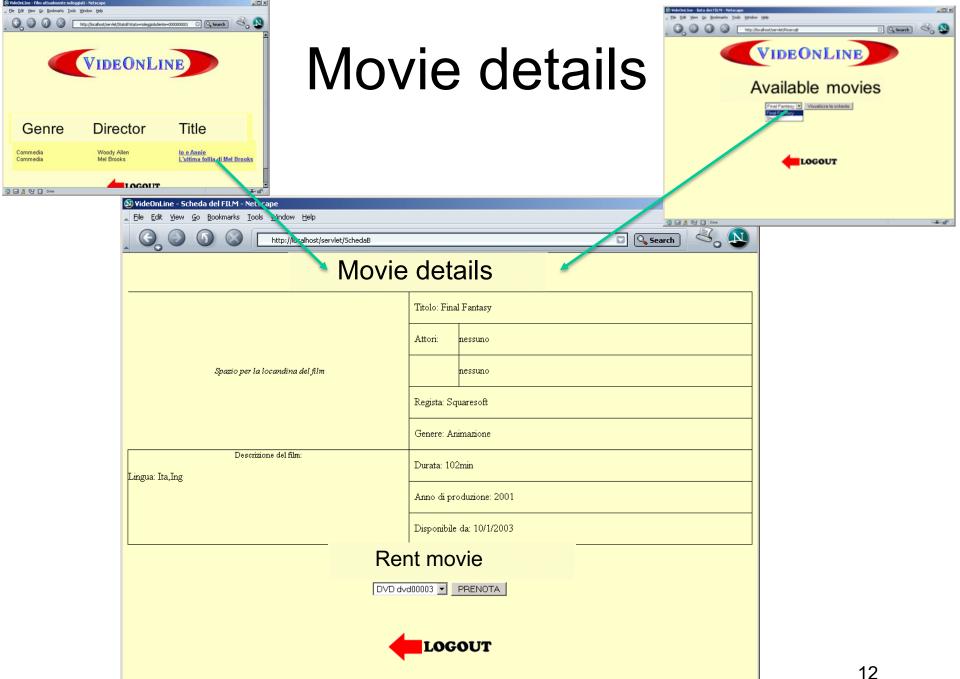


Search from genre, actor, or director



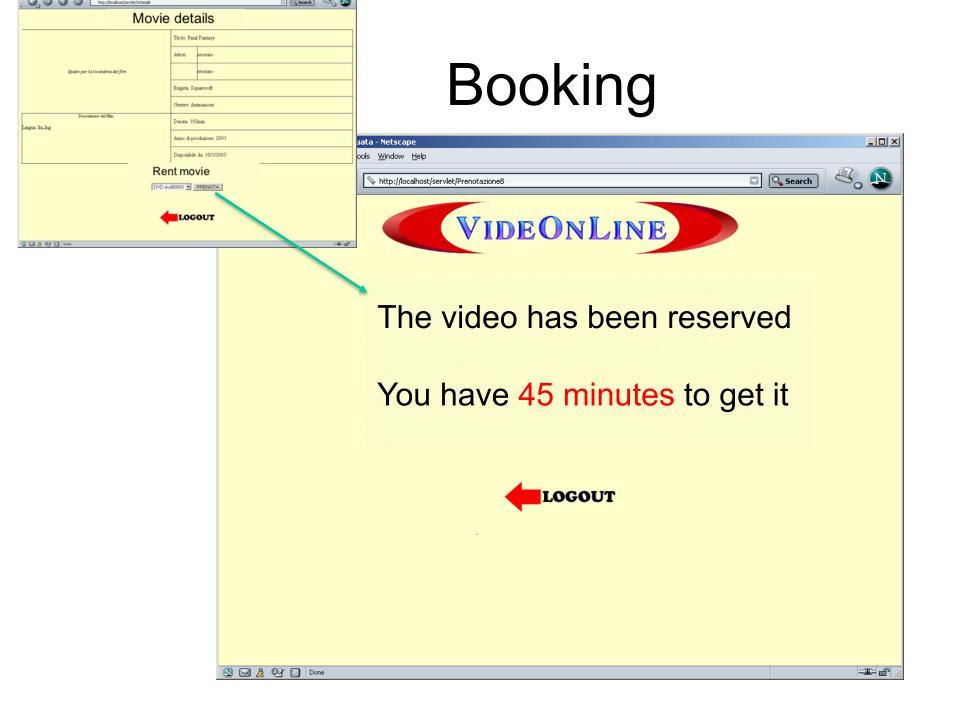
News





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-III:



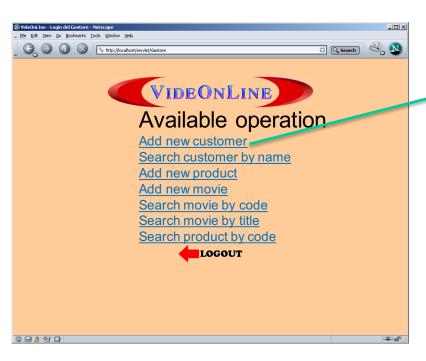
Admin login

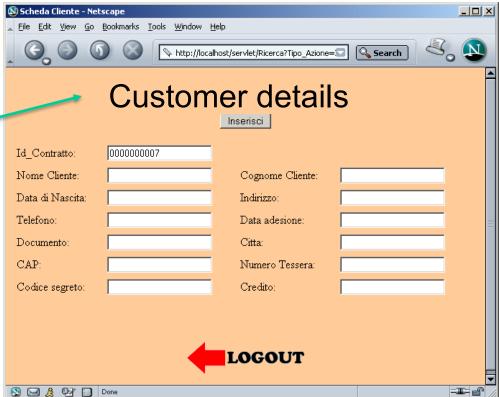


Administrator functionalities

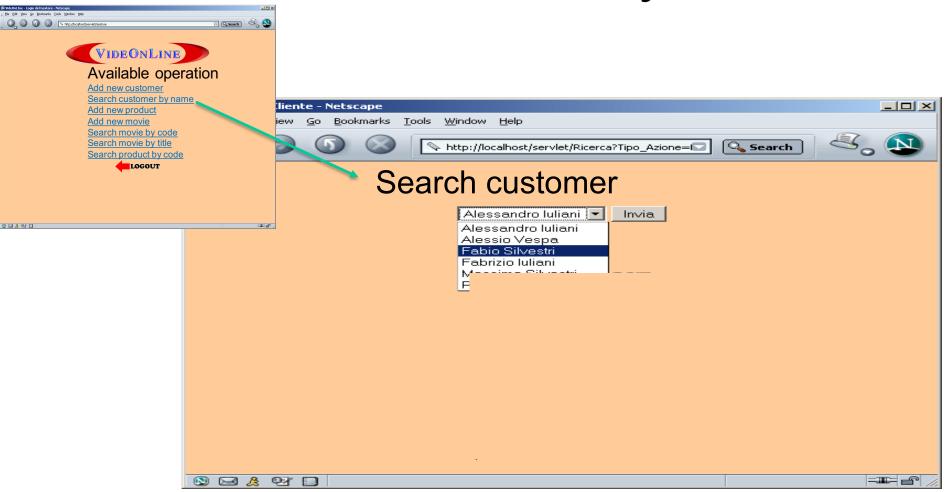


Add new customer





Search customer by name



FP

2 ILF

Film

- Code
- Title
- Director
- Actors
- Year
- Duration
- Description
- Genre
- Image

- Registration date (for each media)
- Type
- Number of items

12 DET 2 RET: ILF (low)

Customer

- Name
- Surname
- Birth date
- Address
- Phone
- City
- Zip code
- ID document
- Contract number
- Registration date
- Card #
- Code
- Balance
- Rented media
- Booked media

15 DET 2 RET: ILF (low)

Home screen



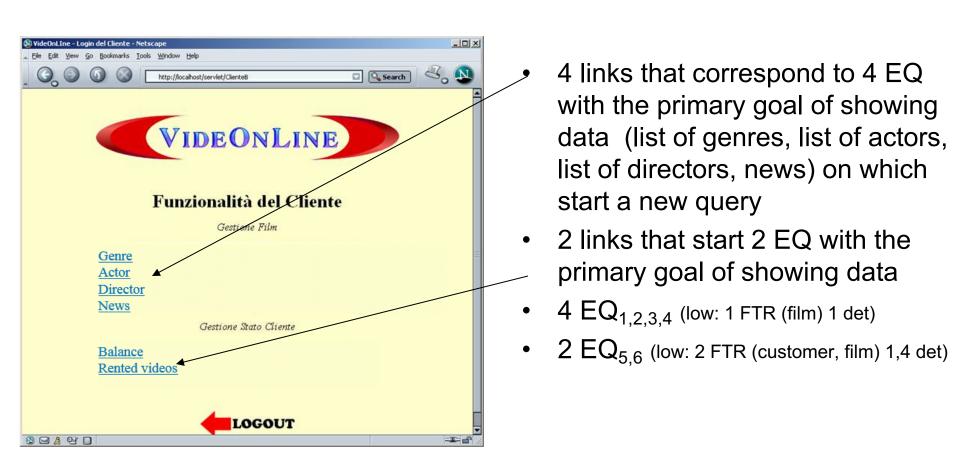
- 2 navigation links
- No exchanged data between user and system
- 0 FP

+ 1 EI: Customer login



- User input with primary goal of sending control information
- 1 FTR (customer)
- 2 Det
- 1 EI₁ (low)

+6 EQ: customer functionalities



EQ: 1) does not compute new data 2) does not update ILF 3) does not alter the status of the system

+3 EQ: Search for X={genre, actor, director}

(Input side)

1 FTR (film)

1 DET (X)



(Output side)

1 FTR (film)

3 DET: X, director, title

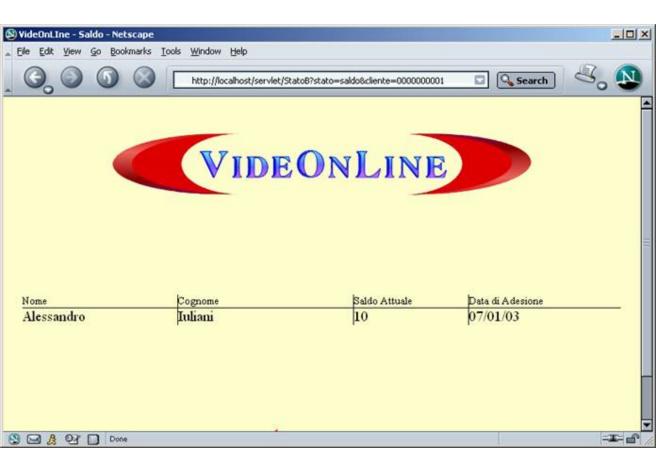


+ 1 EQ: Movie details



- EQ (shared by EQ_{7..9}, so it must be considered only once)
- 9 DET
 - 1 input: title
 - 9 output
- 1 FTR (film)
- 1 EQ₁₀ (low)

+ 1 EQ Balance



- 1 FTR (customer)
- 4 DET
- 1 EQ₁₁ (low)

+ 1 EQ Rented movies



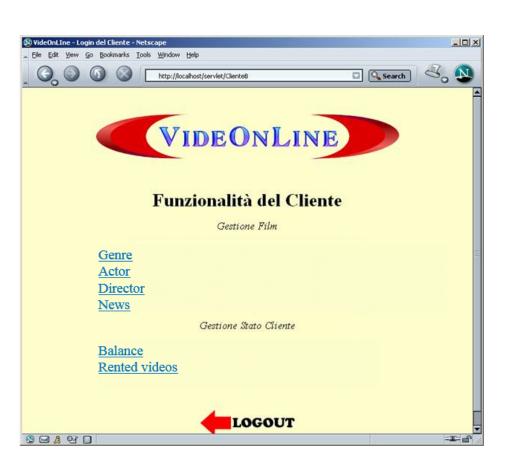
- 2 FTR (customer+ film)
- 4 DET
- 1 EQ₁₂ low

+ 1 El Booking



- El with the main goal of updating 2 ILF (customer and film)
- 1 DET(media)
- 2 FTR (film and customer)
- El₂ low

Tot customer functionalities



- 6 EQ from the main page
- 3 EQ (genre, actor, director)
- 1 shared EQ for movie details
- 1 EQ balance
- 1 EQ rented movies
- 1 EI for booking
- 1 EI login

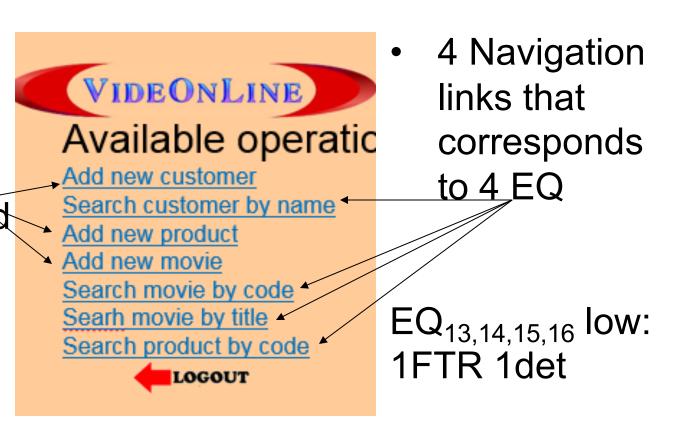
EI: Administrator login



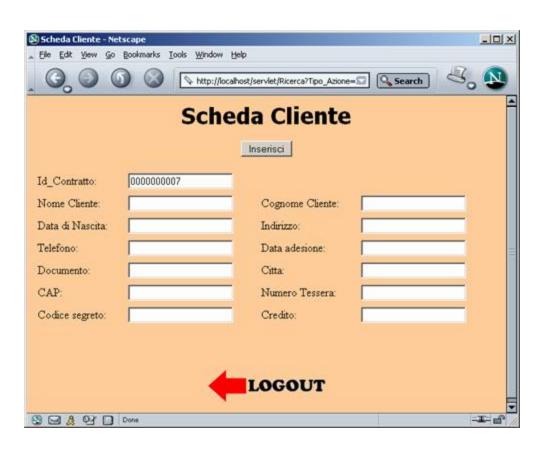
- User input with primary goal of sending control information
- 0 ILF
 - Id and password wired in the code...
- 2 Det
- 1 El₃ (low)

Administrator functionalities

- 3 Navigation links that trigger 3 EI_{4,5,6,7}
- No exchanged data
- 0 FP



EI: Add customer



- 1 FTR (cliente)
- 13 DET
- 1 El₄ (low)

EI: Add movie

- Not shown in the mock-up
- 1 FTR (film)
- 8 DET

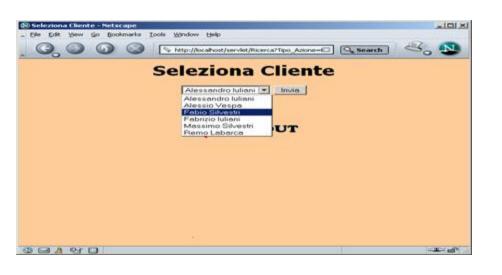
• 1 El₅ (low)

EI: Add media

- Not shown in the mock-up
- 1 FTR (film)
- 4 DET

• 1 EI₆ (low)

EQ: Search customer by name



- 1 DET
- 1 FTR (customer)
- 1 EQ₁₃ (low)

2 EQ: Search movie by code or title

- Not shown in the mock-up
- 1 FTR (film)
- 1 DET
- 2 EQ_{14.15} (low)

EQ: Search media (by code)

- Not shown in the mock-up
- 1 FTR (film)
- 1 DET

• 1 EQ₁₆ (low)

EQ₁₀: Movie details

Already computed

© VideOnLine - Scheda del FILM - Netscape _ Ele Edit Yew Go Bookmarks Tools Window Help		_IDX	
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Scheda Del Film			
Spazio per la locandina del film	Titolo: Final Fantasy		
	Attori:	nessuno	
		nessuno	
	Regista: Squaresoft		
	Genere: Animazione		
Descrizione del film: Lingua: Ita,Ing	Durata: 102min		
	Anno di produzione: 2001		
D		Disponibile da: 10/1/2003	
Prenota il film DVO dvd000003 ▼ PRENOTA			
[Dibutummon] Filtration			
LOGOUT			
,			
S 🖼 🙏 93 🔲 Done			

The bill

- 2 ILF (low) 14
- 6 EI (low) 18
- 16 EQ (low) 48

80 UFP