# 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

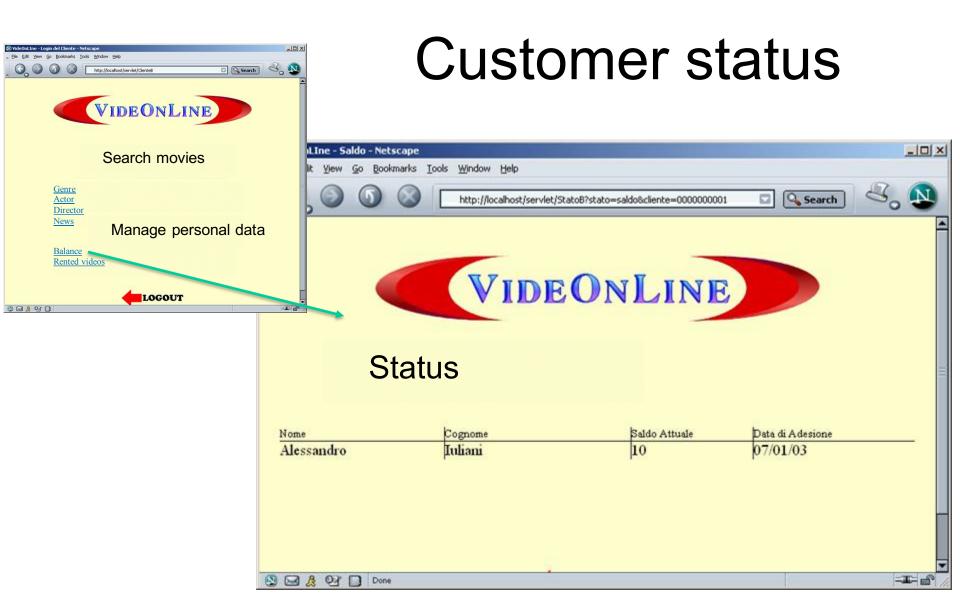


# Login utente



### Customer functionalities



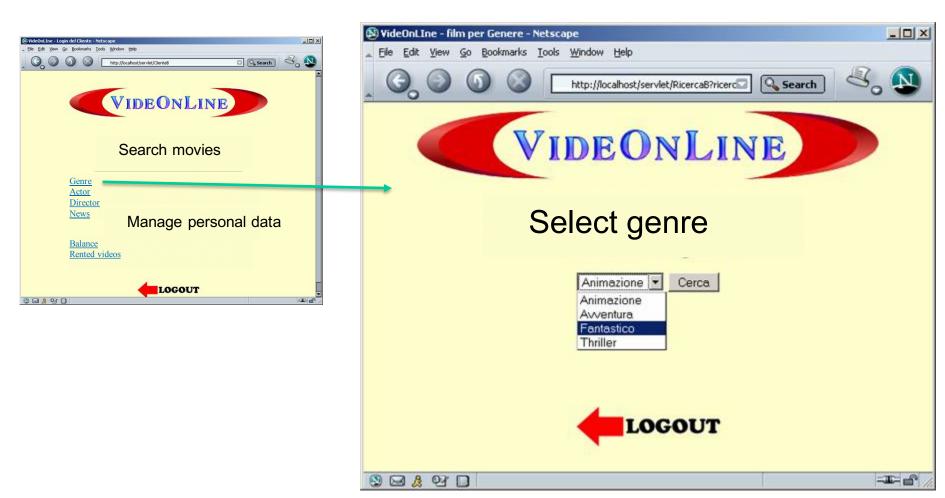




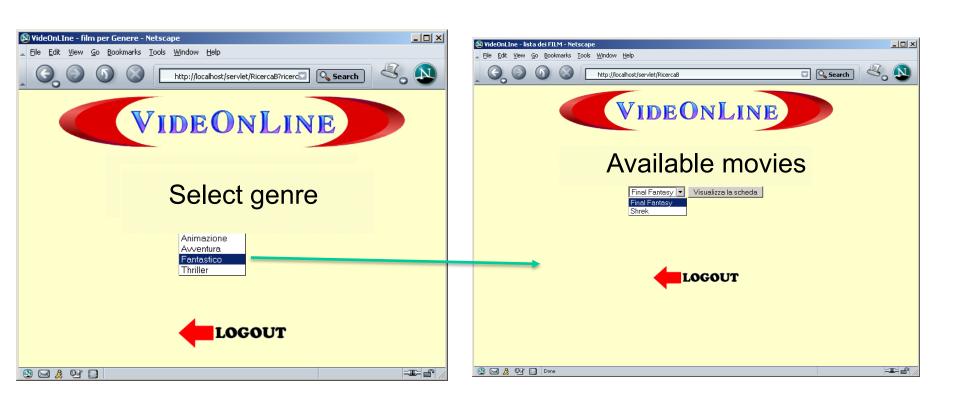
#### Rented media



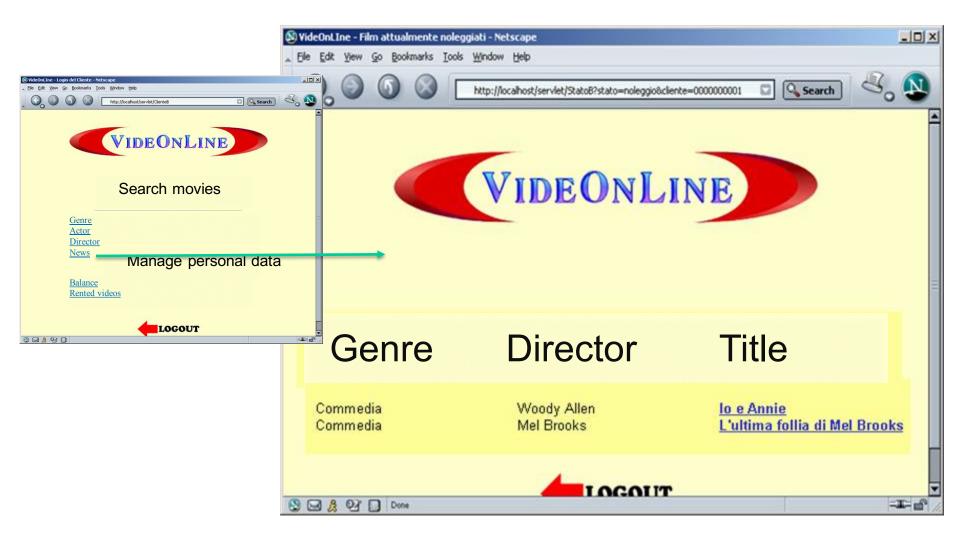
# Search for genre, actor, or director

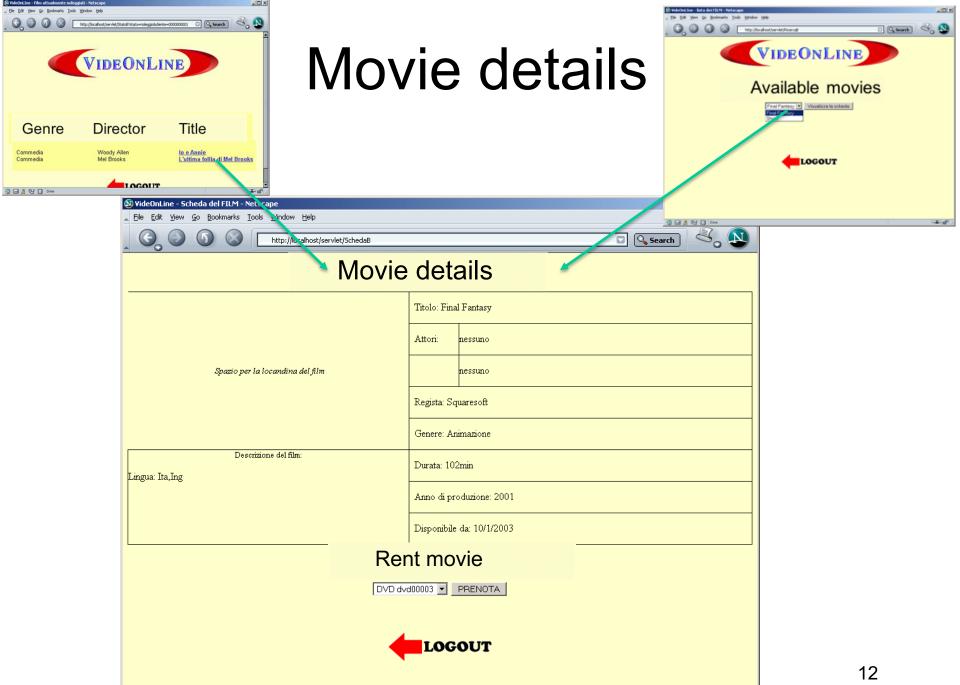


# Search from genre, actor, or director



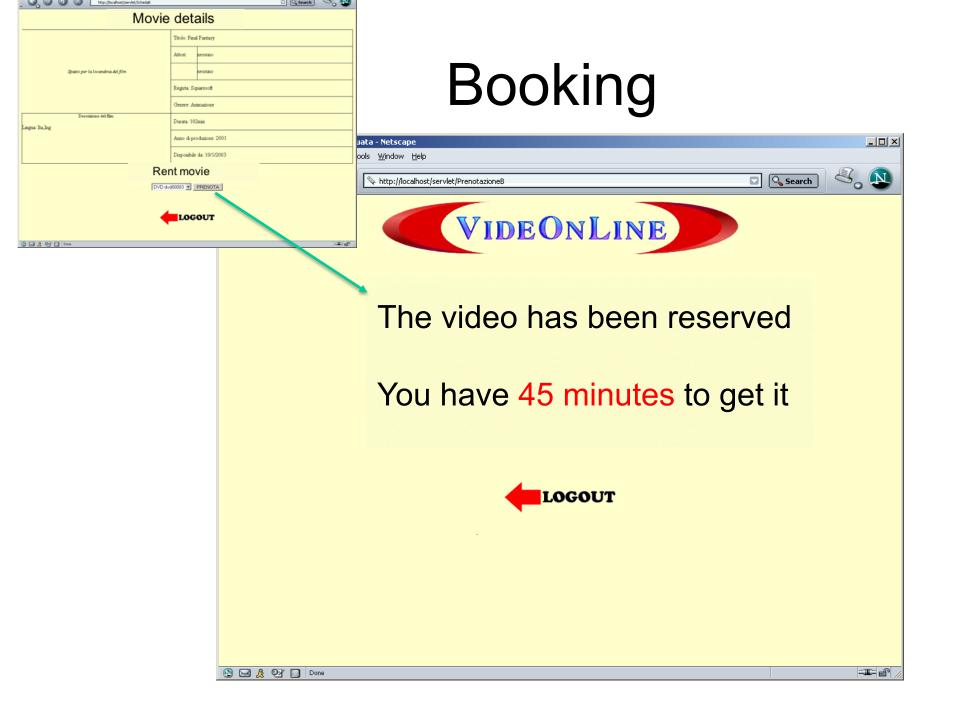
### News





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-III:



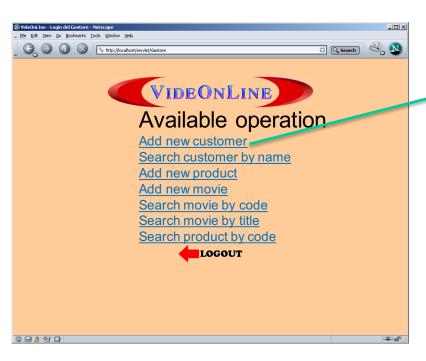
## Admin login

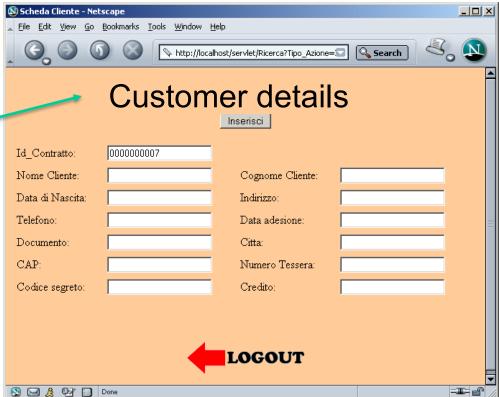


### Administrator functionalities

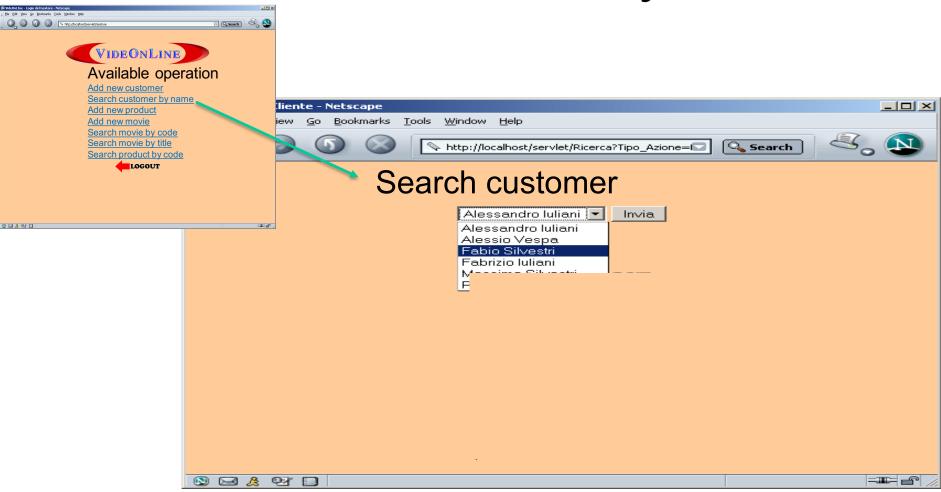


### Add new customer





# 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



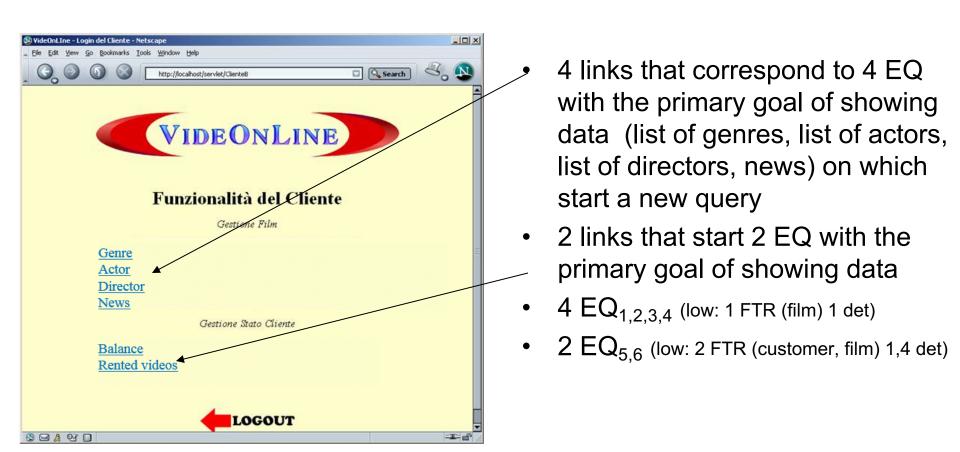
- 2 navigation links
- No exchanged data between user and system
- 0 FP

## + 1 EI: Customer login



- User input with primary goal of sending control information
- 1 FTR (customer)
- 2 Det
- 1 EI<sub>1</sub> (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

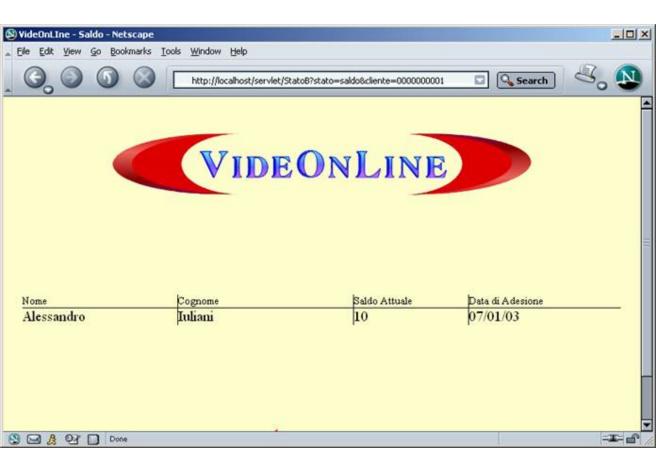


### + 1 EQ: Movie details



- EQ (shared by EQ<sub>7..9</sub>, so it must be considered only once)
- 9 DET
  - 1 input: title
  - 9 output
- 1 FTR (film)
- 1 EQ<sub>10</sub> (low)

### + 1 EQ Balance



- 1 FTR (customer)
- 4 DET
- 1 EQ<sub>11</sub> (low)

### + 1 EQ Rented movies



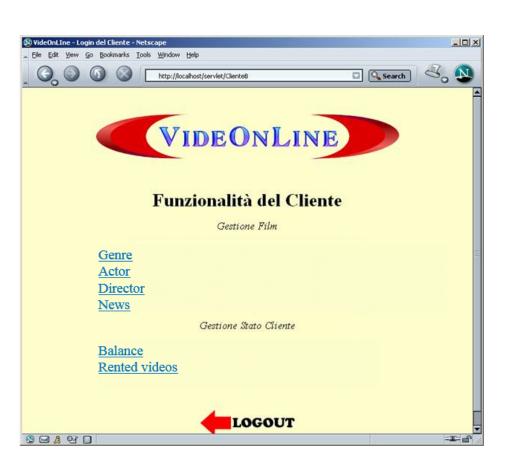
- 2 FTR (customer+ film)
- 4 DET
- 1 EQ<sub>12</sub> low

### + 1 El Booking



- El with the main goal of updating 2 ILF (customer and film)
- 1 DET(media)
- 2 FTR (film and customer)
- El<sub>2</sub> 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

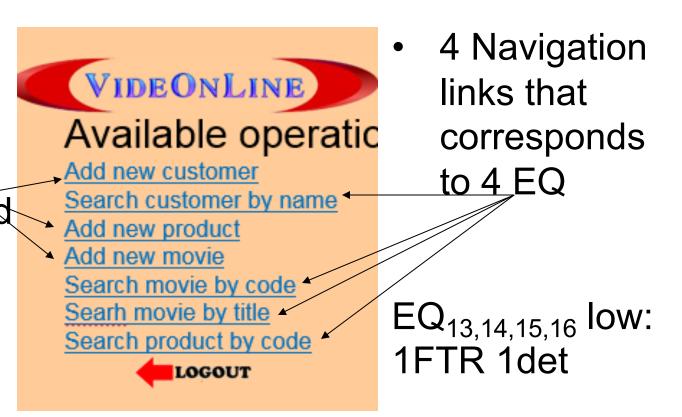
# EI: Administrator login



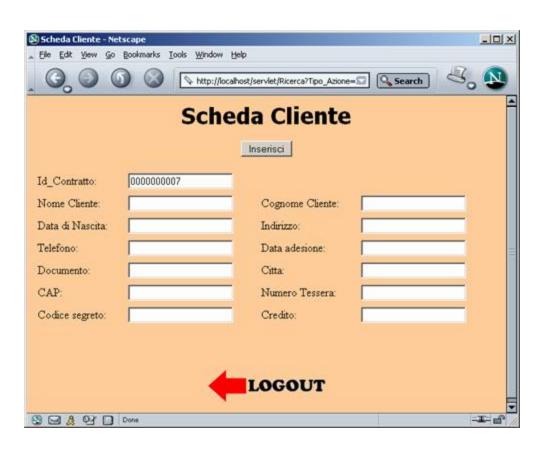
- User input with primary goal of sending control information
- 0 ILF
  - Id and password wired in the code...
- 2 Det
- 1 El<sub>3</sub> (low)

### Administrator functionalities

- 3 Navigation links that trigger 3 EI<sub>4,5,6,7</sub>
- No exchanged data
- 0 FP



### EI: Add customer



- 1 FTR (cliente)
- 13 DET
- 1 El<sub>4</sub> (low)

### EI: Add movie

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

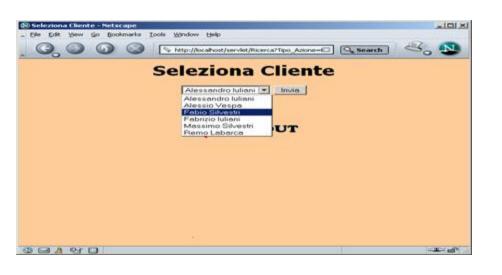
• 1 El<sub>5</sub> (low)

### EI: Add media

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

• 1 EI<sub>6</sub> (low)

### EQ: Search customer by name



- 1 DET
- 1 FTR (customer)
- 1 EQ<sub>13</sub> (low)

# 2 EQ: Search movie by code or title

- Not shown in the mock-up
- 1 FTR (film)
- 1 DET
- 2 EQ<sub>14.15</sub> (low)

# EQ: Search media (by code)

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

• 1 EQ<sub>16</sub> (low)

# EQ<sub>10</sub>: Movie details

Already computed

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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			
,			
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### The bill

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

**80 UFP**