MOVIE RENTAL

Problem statement:

Write an application for movie rental. The application will store:
- Movie: <movieId>, <title>, <description>, <genre>
- Client: <clientId>, <name>
- Rental: <rentalId>, <movieId>, <clientId>, <rented date>, <due date>, <returned date>

Create am application which allows the user to:

1. Manage the list of clients and available movies. The application must allow the user to add, remove, update and list both clients and movies.

2. Rent or return a movie. A client can rent an available movie until a given date, as long as they have no rented movies that passed their due date for return. A client can return a rented movie at any time. Only available movies are available for renting.

Family Expenses - Feature list:

F01 ~: **ADD**
F02 ~: **REMOVE**
F03 ~: **UPDATE**
F04 ~: **LIST**
F05 ~: **RENT**
F06 ~: **RETURN**

Iteration plan

Iteration	Planned features
I1	**F01** - add both clients and movies into the database. **F02** - remove both clients and movies from the database. **F03** - update both clients and movies from the database. **F04** - list both clients and movies from the database. **F05** - rent a movie. **F06** - return a movie.
I2	
I3	

Running scenarios

I1.

	User	Program	Description

1		Available commands:
		       1 - ADD (a new client or a new movie)
		       2 - REMOVE (a client or a movie)
		       3 - UPDATE (a client's information or a movie's information
		       4 - LIST (all clients or all movies)
		       5 - RENT (a movie)
		       6 - RETURN (a movie)
		       0 - EXIT
		
		Enter command:
			This menu will appear on screen as soon as the program is executed.

2	1		
3		1. MOVIE 2. CLIENT Enter command:	
4	1		
5		ENTER THE MOVIE TITLE: New Movie ENTER THE MOVIE DESCRIPTION: New Description ENTER THE MOVIE GENRE: New Genre	
6	4		
7		1. MOVIES 2. CLIENTS Enter command:	
8	1		
9		1 New Movie New Description New Genre	
10	3		
11		1. MOVIE 2. CLIENT Enter command:	
12	1		

13		ENTER THE MOVIE ID: 1
		    1. MOVIE TITLE
		    2. MOVIE DESCRIPTION
		    3. MOVIE GENRE
		Enter command: 1
		ENTER THE UPDATED MOVIE TITLE: Movie	

14	4		
15		1 Movie New Description New Genre	
16	2		

	User	Program	Description
17		1. MOVIE 2. CLIENT Enter command:	
18	1		
19		ENTER THE MOVIE ID: 1	
20	4		
21			
22	5		
23		ENTER THE MOVIE ID: 1	
24	1		
25		ENTER THE CLIENT ID: 1	
26	1		
27		ENTER THE RENTAL DATE (ex: 2015-12-24): 2016-11-08 ENTER THE DUE DATE (ex: 2015-12-24): 2016-12-08	
28		1 1 1 2016-11-08 2016-12-08 !RETURNED	
29	6		
30		ENTER THE RENTAL ID: 1 ENTER THE MOVIE ID: 1	
31		1 1 1 2016-11-08 2016-12-08 2016-11-08	
	0		
		Existing…	

Work items

	Class name	Description
1	class UI	
2	class rentalRepository	
3	class rental	
4	class movieRepository	
5	class movie	
6	class clientRepository	
7	class client	

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