

Evidence for Implementation and Testing Unit

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I.T 1- Demonstrate one example of encapsulation that you have written in a program.

I.T 2 - Example the use of inheritance in a program.

I.T 3 - Example of searching

Function that searches all the customer data:

```
def self.map_items(customer_data)
  result = customer_data.map { |customer|
    Customer.new(customer) }
  return result
end

def self.all()
  sql = "SELECT * FROM customers"
  customer_data = SqlRunner.run(sql)
  return Customer.map_items(customer_data)
end
```

Result of the function running - Customer.all

```
[→ codeclan_cinema git:(master) ✕ ruby db/console.rb

From: /Users/user/codeclan_work/week_03/homework/codeclan_cinema/db/console.rb @
line 72 :

67:   'customer_id' => customer2.id
68:   })
69: ticket4.save()
70:
71: binding.pry
=> 72: nil

[[1] pry(main)> Customer.all
=> [#<Customer:0x007fbfdb8c358 @funds="100", @id=55, @name="Brad Pitt">,
    #<Customer:0x007fbfdb8c240 @funds="800", @id=56, @name="Angelina Jolie">,
    #<Customer:0x007fbfdb8c128 @funds="800", @id=57, @name="Jennifer Aniston">]
[2] pry(main)> ]
```

Database view (not sure if this is required - delete?)

```
[→ codeclan_cinema git:(master) × psql -d codeclan_cinema -f db/codeclan_cinema.]
sql
DROP TABLE
DROP TABLE
DROP TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
[→ codeclan_cinema git:(master) × psql -d codeclan_cinema ]
psql (10.3)
Type "help" for help.

[codeclan_cinema=# SELECT * FROM customers; ]
 id |      name      | funds
----+-----+-----
  1 | Brad Pitt      |   100
  2 | Angelina Jolie |   800
  3 | Jennifer Aniston |  800
(3 rows)

codeclan_cinema=#
```

I.T 4 – Example of sorting

Function that sorts data by films - ability to select a customer and return all the films they have tickets for.

```
def films()
  sql = "SELECT films.* FROM films
  INNER JOIN tickets
  ON tickets.film_id = films.id WHERE
  customer_id = $1"
  values = [@id]
  film_data = SqlRunner.run(sql, values)
  return Film.map_items(film_data)
end
```

Result of the function running - customer1.films

Database view (not sure if this is required - delete?)

I.T 5 - Example of an array, a function that uses an array and the result

An array in a program

A function that uses the array

The result of the function running

I.T 6 - Example of a hash, a function that uses a hash and the result

A hash in a program

A function that uses the hash

The result of the function running

I.T 7 - Example of polymorphism in a program

Evidence for unit