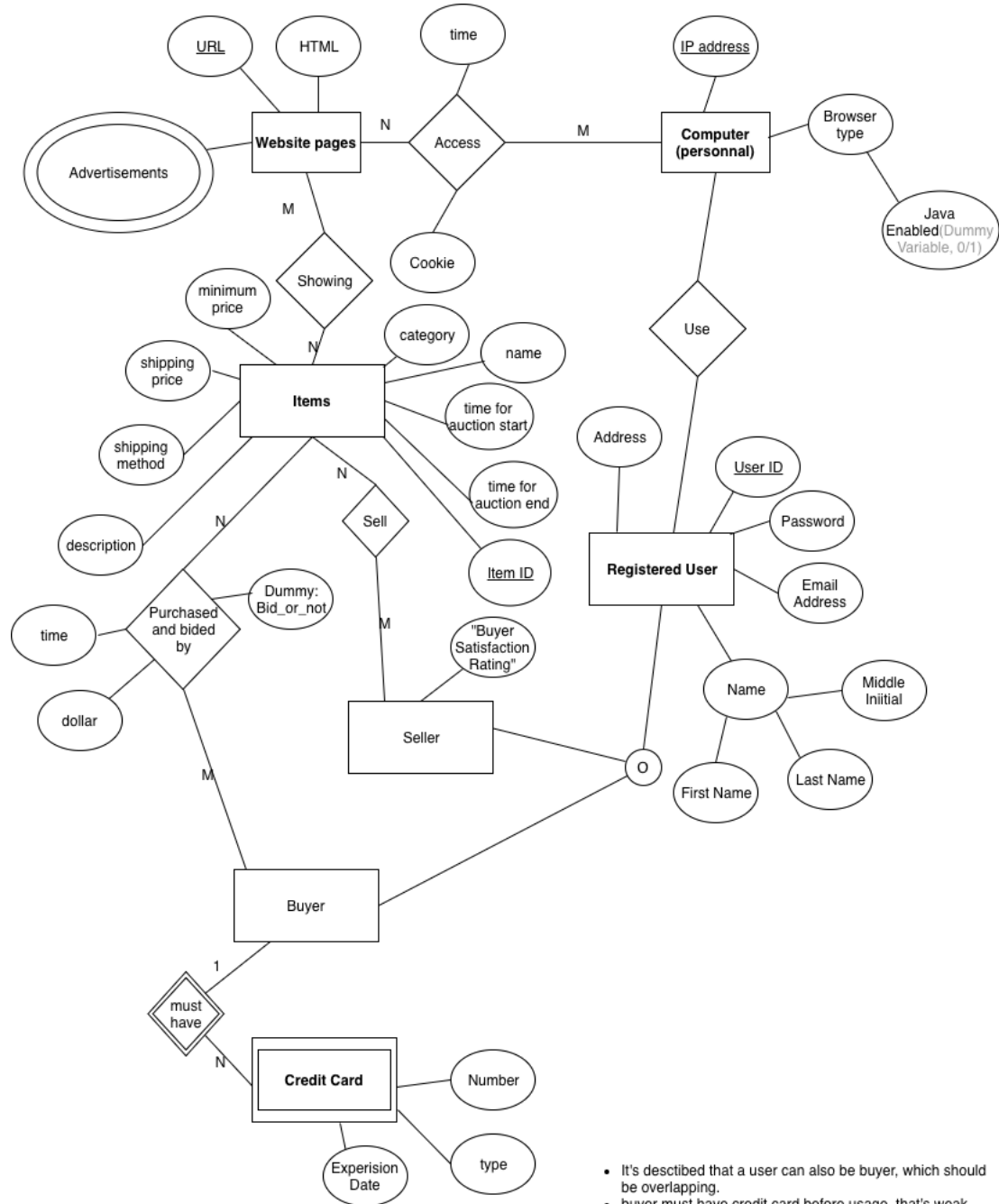


# Assignment 1

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## Problem 1



## Problem 2

Solution:

My solution start from small part, from left to right:

Staff(EmplID, Job\_title)  
Writter(EmplID, Genre, Degree)  
Employee(DeptID, EmplID, StartDate, Address, Name, Salary)  
Department(DeptID, D-address)  
Publication(PubCode, DeptID, PubTitle, PubDate)  
Contractor(C-name, C-Address)  
Writtern\_for(WrittenForID, PubCode, C-Name)  
Topic\_area(PubCode, A-code, A-name)

## Problem 3

Attributes of department and employee are (dept\_no, dept\_name) and (emp\_id, emp\_name) respectively.

Solution:

For 1 to 1 schema (which is manage):

Department(dept\_no, dept\_name, emp\_id)  
Employee(emp\_id, emp\_name)

Or

Department(dept\_no, dept\_name)  
Employee(emp\_id, emp\_name, dept\_no),

Both of two solution is equivalent.

For 1 to n schema,

We should put 1 side primary key as a foreign key on N side.

Department(dept\_no, dept\_name)  
Employee(emp\_id, emp\_name, dept\_no)