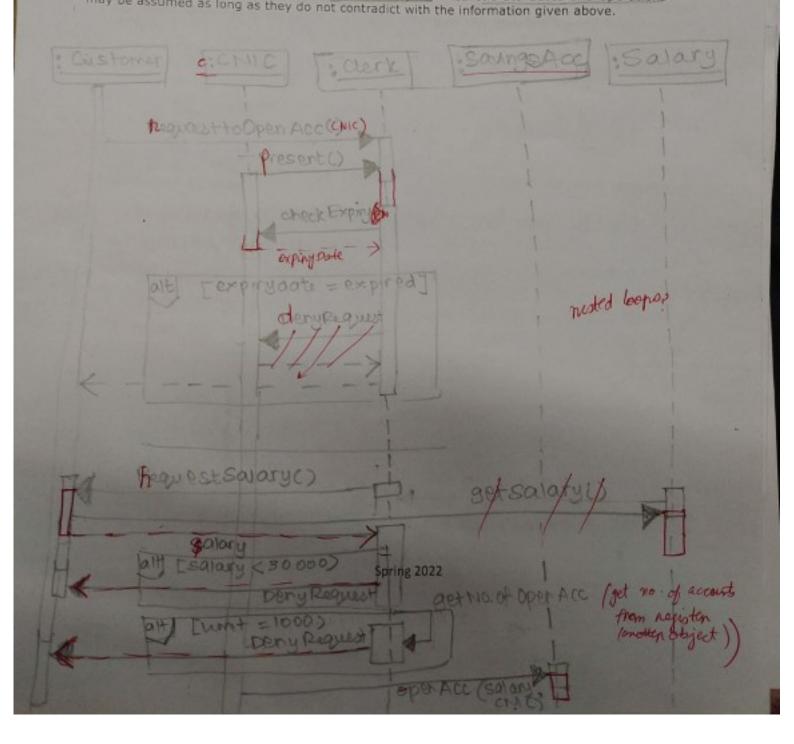


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cayer b (illiddle), and Layer C (bottom). Layer B uses the services provides by both Layer A and Layer C. Does this system exhibit layered cohesion? Why? In layered wheston, only top layers can access the bottom layers not vice versa. B should only be able to access C not A. Q3. What is the relationship between procedural cohesion and sequential 0.5 cohesion? Explain. Procedural conesion & has a special case called sequential cohesion. Data is passed from Function to function in sequential cohesion in an order, but in procedural cohesion, dara is not passed. Q4. Name the lowest type of cohesion and explain it with the help of an 6.5 example. All (helper) Functions are that are broadly associated with each other are

about Q3. What is the benefit of describing different design patterns using a common template? Helps to organise information. 0.2 Helps to distinguish what time to use which MAKED 8 one. 0.5 Q4. Identify and differentiate between the 3 purposes of design patterns.

For different entities, objects et , creational For different data structures structural for interaction between different entitles behavioral Spring 2022

To give a brief overview of what the design is

to afterentiale from

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```
gets(aname);
                    "; "He Author's Name ";
         cout<<"\n\n\nBook Created..";
                                                void report()
                                                   cout<<br/>bno<<setw(30)<<br/>bname<<setw(30)<<
     void show_book()
                                                   anameccendl;
        cout<<"\nBook no. : "<<bno;
        cout<<"\nBook Name : ";"
        puts(bname);
                                            1:
                                                      //class ends here
        cout << "Author Name : ";
        puts(aname);
         Q. Determine the value of CK metric LCOM for the book class* given above.
         Complete working (i.e. all steps) must be shown to get credit.
         *(code taken from http://www.cppforschool.com/project/library-management-system.html)
      $ bno, bname, aname }
      ¿ creatubook, showbook, 2)
modifybook, retbro, (M)
report ;
                                            4P $
                                             Q = {(I, I2), (I, I3), (I, I4)
                                                        ,(I, Is), (I, Is),
                                                         (I2, I4), (I2, I5),
1, → I, = { bno, bname, aname}
12 - 12 = Exbname, aname }
                                              (I3, Iu), (I3, I5), (I4, I5)}
3 - I3 = Exbrame, aname 3.
                                               191 = 0
u - Iy = g bnog
5 - Is = { bno, bname, aname}
                                                191 = 10
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                                                 1P1 >1Q1
                                                    50 LCOM = 0
```

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