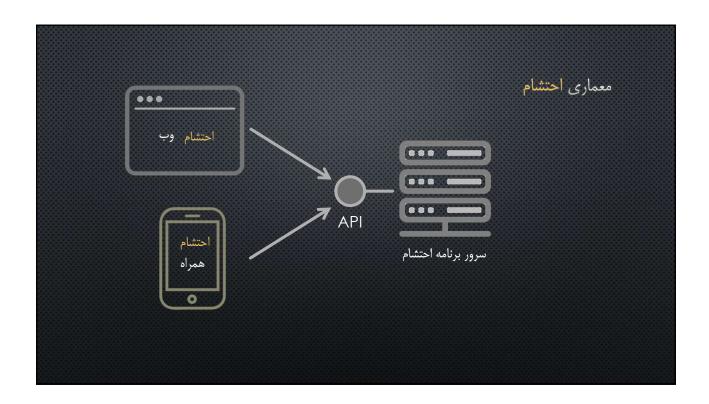
مقدمهای بر طراحی شیءگرا

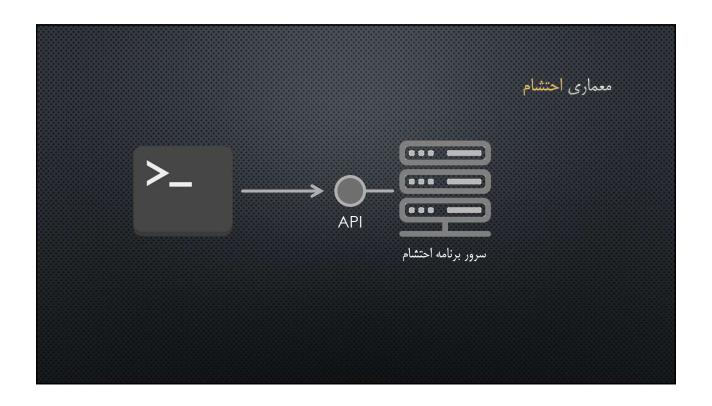
سامانه سفارش غذاى احتشام

صورت مسئله

- کارمندان یک شرکت برای صرف ناهار از تعدادی مؤسسه تهیه غذای خارج شرکت غذا سفارش میدهند
- مشکل: ممکن است در یک روز چندین سفارش به یک مؤسسه داده شود -> تماسهای مکرر و هزینه پیک زائد
- راهحل: طراحی یک سامانه برای تجمیع سفارشهای هر مؤسسه و تماس با هر مؤسسه توسط مسئول سفارش غذا
 - فواید: صرف وقت کمتر از کارمندان و سرشکن شدن هزینه پیک

















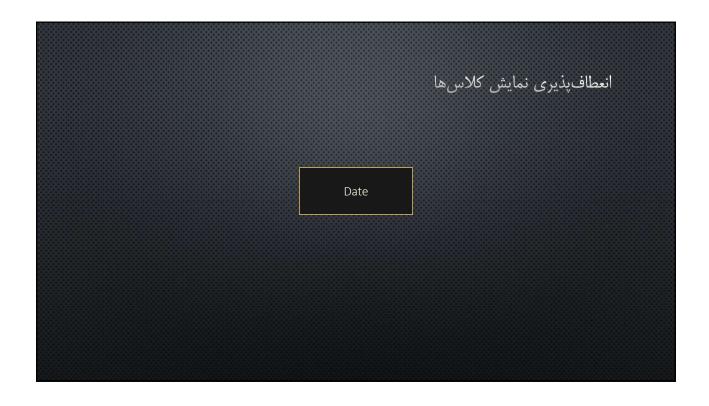
				ِرودی نمونه
request request request request catorder catorder delivery bedehi delivery bedehi	1001 1002 1003 1002 Farsi Alaa Farsi	Farsi Farsi Alaa Farsi 10000	Kabab Kabab Maahi Jooj	

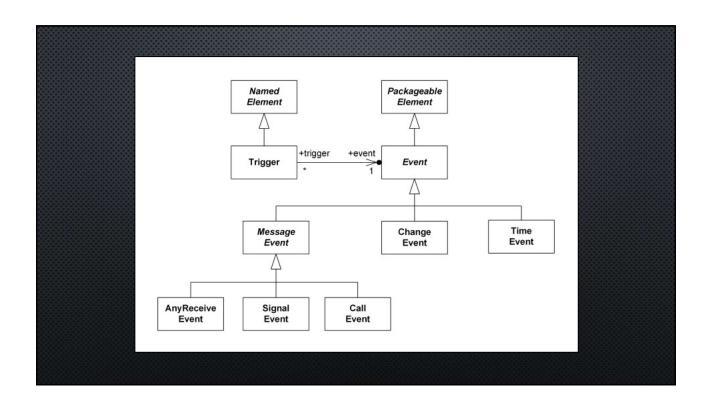


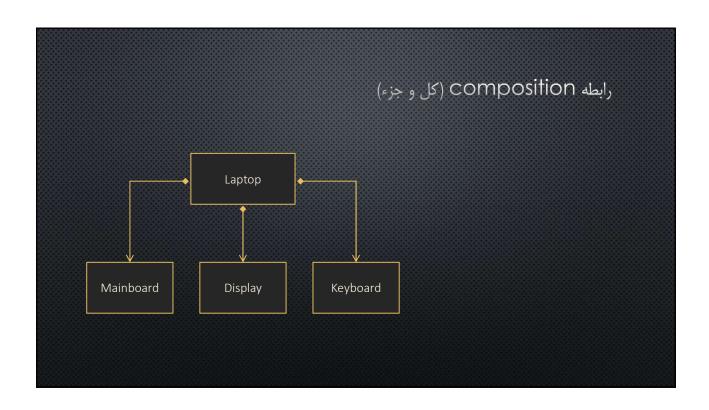
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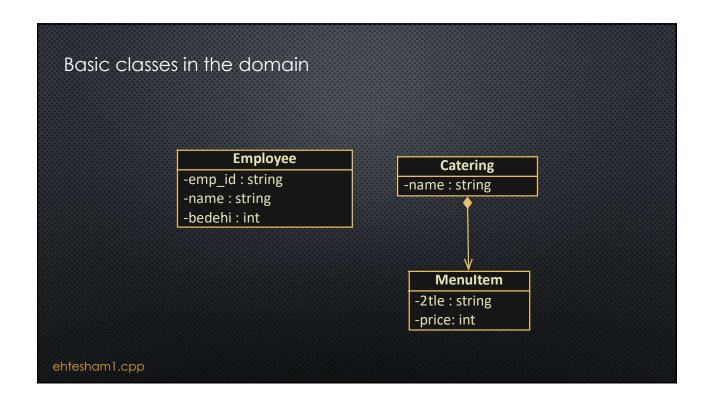
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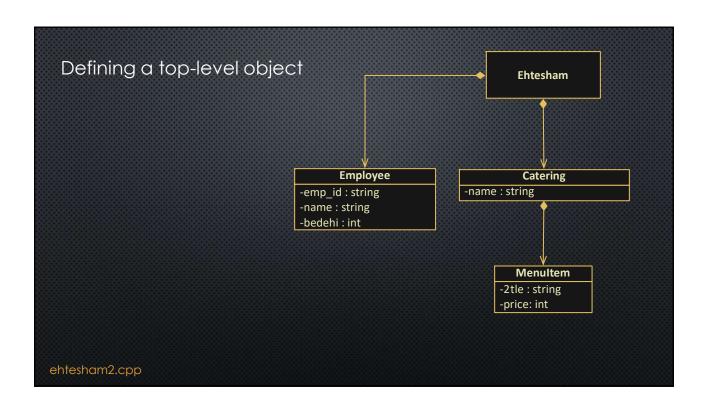


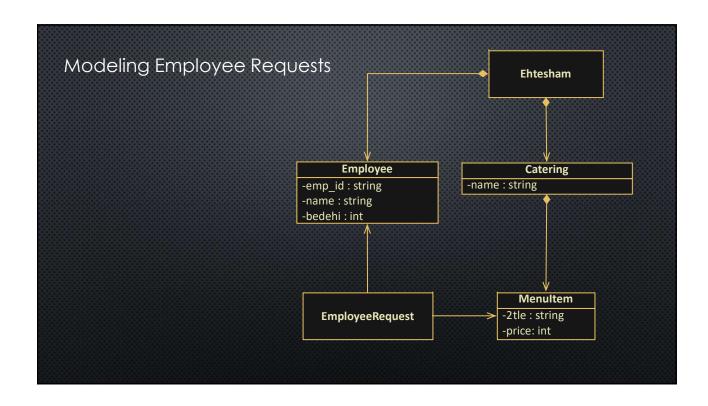


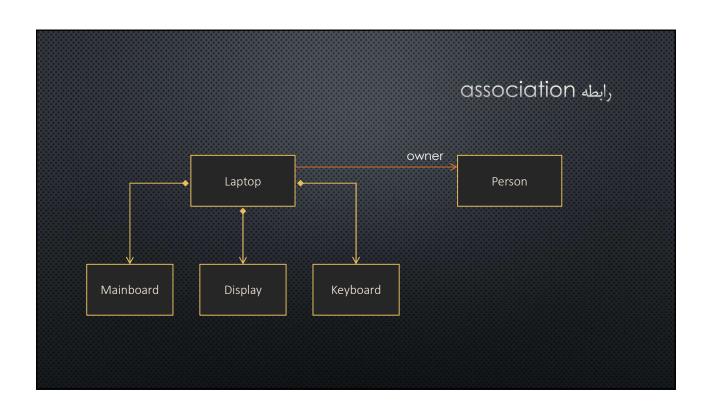


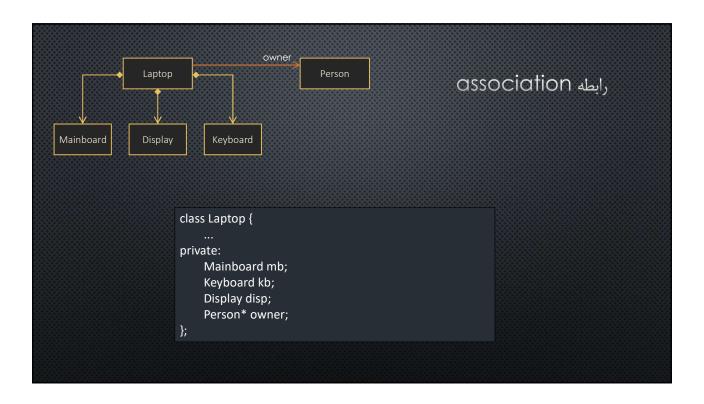


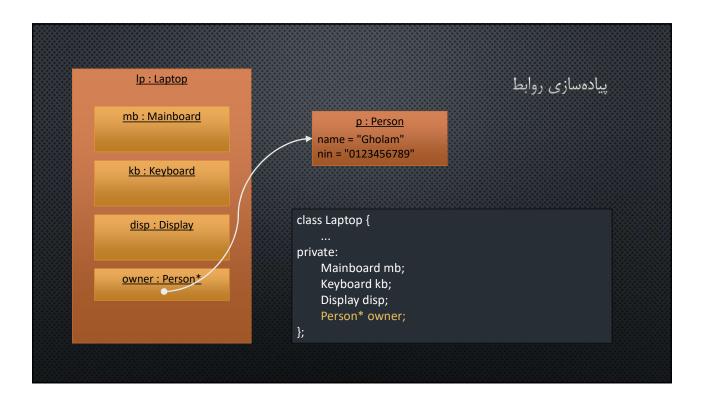


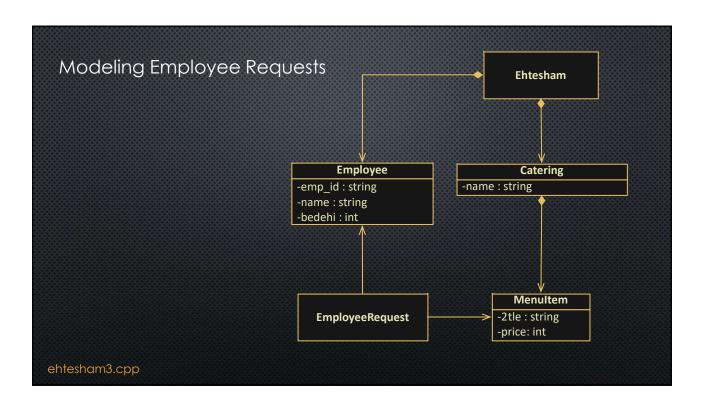


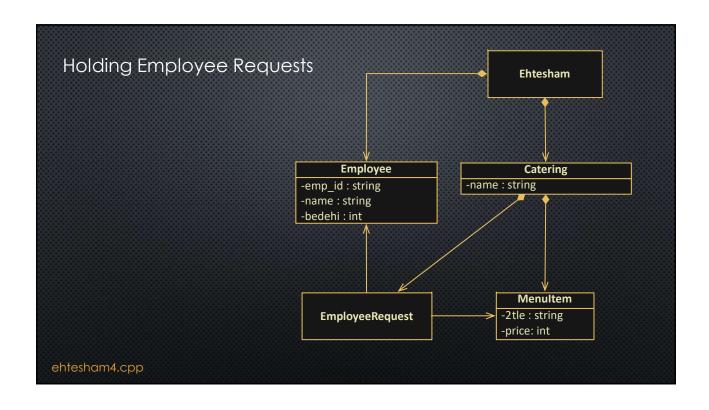


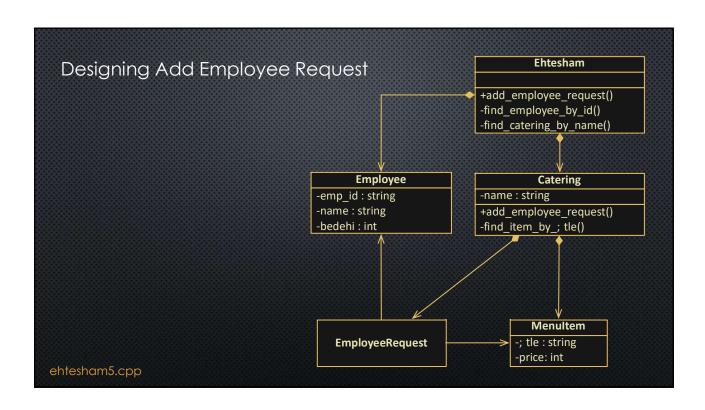




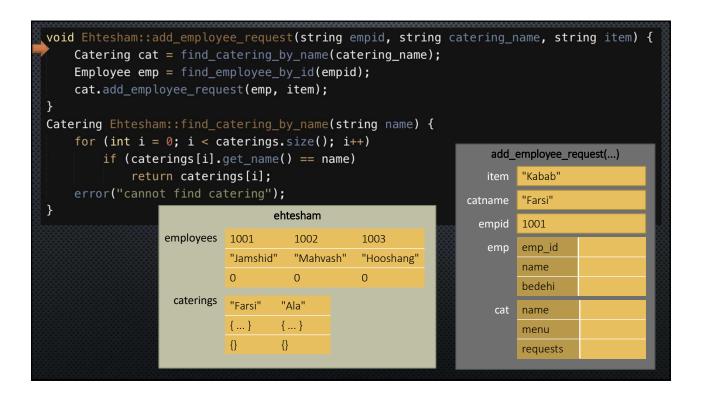




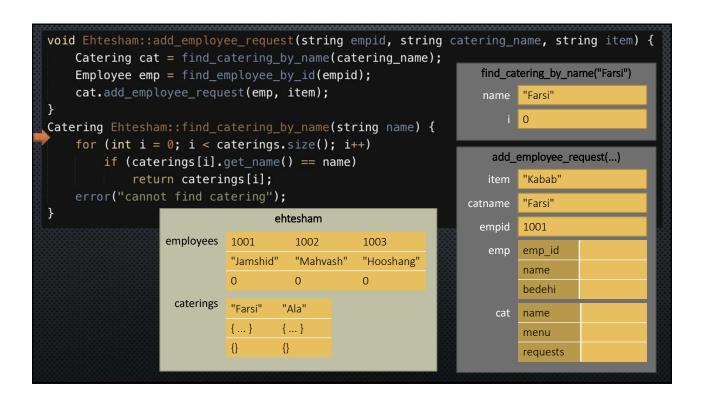




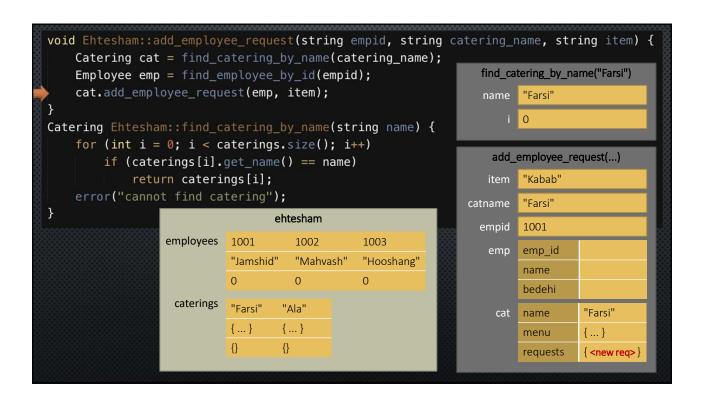
```
void Ehtesham::add_employee_request(string empid, string catering_name, string item) {
    Catering cat = find_catering_by_name(catering_name);
    Employee emp = find_employee_by_id(empid);
    cat.add_employee_request(emp, item);
}
Catering Ehtesham::find_catering_by_name(string name) {
    for (int i = 0; i < caterings.size(); i++)
        if (caterings[i].get_name() == name)
            return caterings[i];
    error("cannot find catering");
}</pre>
```



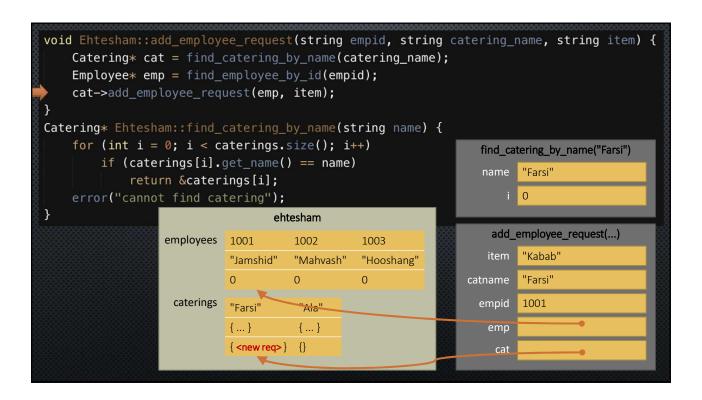
```
void Ehtesham::add_employee_request(string empid, string catering_name, string item) {
    Catering cat = find_catering_by_name(catering_name);
                                                                     find_catering_by_name("Farsi")
    Employee emp = find_employee_by_id(empid);
    cat.add_employee_request(emp, item);
                                                                     name
                                                                          "Farsi"
Catering Ehtesham::find catering by name(string name) {
    for (int i = 0; i < caterings.size(); i++)</pre>
                                                                       add_employee_request(...)
        if (caterings[i].get_name() == name)
             return caterings[i];
                                                                            "Kabab"
    error("cannot find catering");
                                                                            "Farsi"
                                                                   catname
}
                                    ehtesham
                                                                     empid
                                                                           1001
                  employees 1001
                                       1002
                                                  1003
                                                                      emp
                                                                           emp_id
                             "Jamshid"
                                       "Mahvash"
                                                  "Hooshang"
                                                                            name
                                                  0
                                                                            bedehi
                    caterings
                            "Farsi"
                                     "Ala"
                                                                           name
                             { ... }
                                     { ... }
                                                                            menu
                             {}
                                     {}
                                                                            requests
```



```
void Ehtesham::add_employee_request(string empid, string catering_name, string item) {
    Catering cat = find_catering_by_name(catering_name);
                                                                       find_catering_by_name("Farsi")
    Employee emp = find_employee_by_id(empid);
    cat.add_employee_request(emp, item);
                                                                       name
                                                                            "Farsi"
Catering Ehtesham::find_catering_by_name(string_name) {
     for (int i = 0; i < caterings.size(); i++)</pre>
                                                                        add_employee_request(...)
         if (caterings[i].get_name() == name)
              return caterings[i];
                                                                             "Kabab"
    error("cannot find catering");
                                                                              "Farsi"
                                                                    catname
                                     ehtesham
                                                                      empid
                                                                             1001
                   employees 1001
                                        1002
                                                    1003
                                                                        emp
                                                                             emp_id
                              "Jamshid"
                                        "Mahvash"
                                                   "Hooshang"
                                                                              name
                                                                              bedehi
                     caterings
                              "Farsi"
                                      "Ala"
                                                                             name
                                                                                        "Farsi"
                              { ... }
                                      { ... }
                                                                              menu
                                                                                        { ... }
                              {}
                                      {}
                                                                                        {}
                                                                             requests
```



```
void Ehtesham::add_employee_request(string empid, string catering_name, string item) {
    Catering* cat = find_catering_by_name(catering_name);
    Employee* emp = find_employee_by_id(empid);
    cat->add_employee_request(emp, item);
}
Catering* Ehtesham::find_catering_by_name(string name) {
    for (int i = 0; i < caterings.size(); i++)
        if (caterings[i].get_name() == name)
            return &caterings[i];
        error("cannot find catering");
}</pre>
```



				ورودی نمونه
request request request request catorder catorder delivery	1001 1002 1003 1002 Farsi Alaa Farsi	Farsi Farsi Alaa Farsi	Kabab Kabab Maahi Jooj	
bedehi delivery bedehi	Alaa	10000		

