**Design class diagrams**

1.record payment

|  |
| --- |
| <<Controller>>  PaymentHander |
|  |
|  |

|  |
| --- |
| account |
| -acc\_no:double {key}  -acc\_type:String  -acc\_expDate:date |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| payment |
| -pay\_no:int {key}  -pay\_date:date  -pay\_amount:double |
|  |

2. make tender application

|  |
| --- |
| <<controller>>  applicationHandler |
|  |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| tender |
| -ten\_no:int {key}  -ten\_desc:String  -ten\_prov:String  -ten\_postDate:date  -ten\_closeDate:date  -ten\_status:String  -ten\_doc:String |
|  |

|  |
| --- |
| application |
| -app\_no:int {key}  -app\_date:date  -app\_status:String  -app\_bid:String |
|  |

3. Approve tender

|  |
| --- |
| <<controller>>  approveTenHandler |
|  |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| tender |
| -ten\_no:int {key}  -ten\_desc:String  -ten\_prov:String  -ten\_postDate:date  -ten\_closeDate:date  -ten\_status:String  -ten\_doc:String |
|  |

4. Reward tender

|  |
| --- |
| <<controller>>  rewardTenHandler |
|  |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| tender |
| -ten\_no:int {key}  -ten\_desc:String  -ten\_prov:String  -ten\_postDate:date  -ten\_closeDate:date  -ten\_status:String  -ten\_doc:String |
|  |

5. view tender

|  |
| --- |
| <<controller>>  viewTenHandler |
|  |
|  |

|  |
| --- |
| category |
| -cat\_no:int {key}  -cat\_desc |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| tender |
| -ten\_no:int {key}  -ten\_desc:String  -ten\_prov:String  -ten\_postDate:date  -ten\_closeDate:date  -ten\_status:String  -ten\_doc:String |
|  |

6. add client

|  |
| --- |
| <<controller>>  clientHandler |
|  |
|  |

|  |
| --- |
| company |
| -comp\_no:int {key}  -comp\_name:String  -comp\_type:String  -comp\_street:String  -comp\_surburb:String  -comp\_prov:String  -comp\_code:int |
|  |

|  |
| --- |
| user |
| -user\_no:int{key}  -user\_username:String  -user\_password:String  -user\_surname:String  -user\_fullname:String  -user\_gender:String  -user\_idNr:String  -user\_email:String  -user\_cellNr:double  -user\_role:String |
|  |

|  |
| --- |
| account |
| -acc\_no:double {key}  -acc\_type:String  -acc\_expDate:date |
|  |

**Crc cards**

1. Record payment

*paymentHandler*

|  |  |
| --- | --- |
|  |  |
| handle new payment | *user* |

*user*

|  |  |
| --- | --- |
|  |  |
| record new payment  request info | *payment*  *account* |

*account*

|  |  |
| --- | --- |
|  |  |
| get account number |  |

*payment*

|  |  |
| --- | --- |
|  |  |
| update payment info |  |

1. Make tender application

*applicationHandler*

|  |  |
| --- | --- |
| *payment* | *payment* |
| save application info  *payment* | *user*  *payment* |

*user*

|  |  |
| --- | --- |
|  |  |
| enter application info |  |

*application*

|  |  |
| --- | --- |
|  |  |
| update application info  cancel application  add document to application |  |

*tender*

|  |  |
| --- | --- |
|  |  |
| update information |  |

1. Approve tender

*approveTenHandler*

|  |  |
| --- | --- |
|  |  |
|  | *user* |

*user*

|  |  |
| --- | --- |
|  |  |
| check application info | *tender* |

*tender*

|  |  |
| --- | --- |
|  |  |
| Provide application info |  |

1. Reward tender

*rewardTenHandler*

|  |  |
| --- | --- |
|  |  |
|  | *user* |

*user*

|  |  |
| --- | --- |
|  |  |
| check tender status  request tender document | *tender* |

*tender*

|  |  |
| --- | --- |
|  |  |
| display tender status |  |

1. View tender

*viewTenHandler*

|  |  |
| --- | --- |
|  |  |
|  | *user* |

*user*

|  |  |
| --- | --- |
|  |  |
| Select category  View tender | *category*  *tender* |

*category*

|  |  |
| --- | --- |
|  |  |
| get tender category |  |

*tender*

|  |  |
| --- | --- |
| *category* | *category* |
| provide tender info  *category* | *category* |

1. Add client

*clientHandler*

|  |  |
| --- | --- |
| *category* | *category* |
| Save user account  *category* | *user*  *category* |

*user*

|  |  |
| --- | --- |
| *category* | *category* |
| add client info  *category*  add user role | *company*  *category*  *account* |

*company*

|  |  |
| --- | --- |
| *category* | *category* |
| update company info  *category* | *category* |

*account*

|  |  |
| --- | --- |
| *category* | *category* |
| create client account  *category*  update client details | *category* |