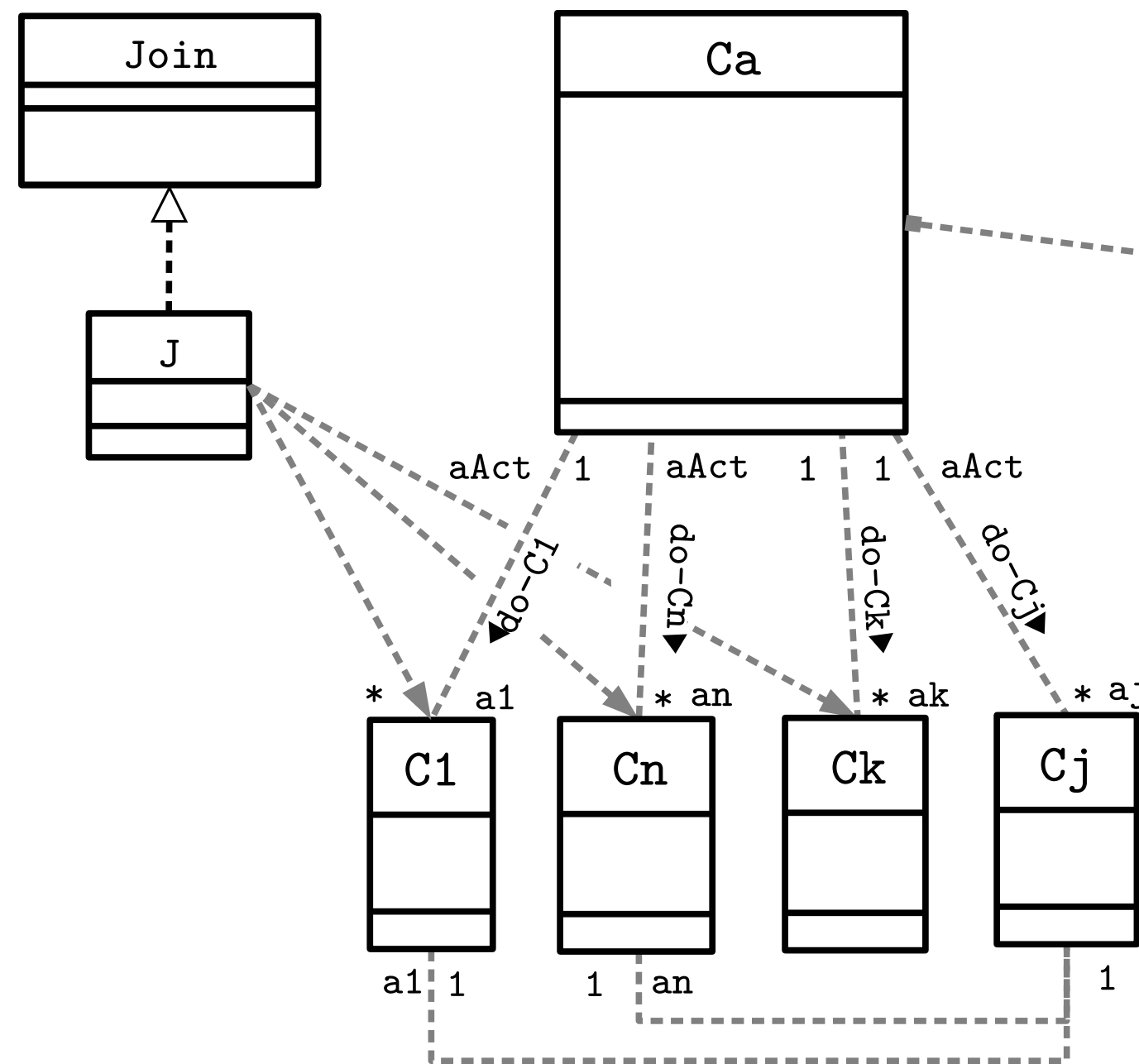
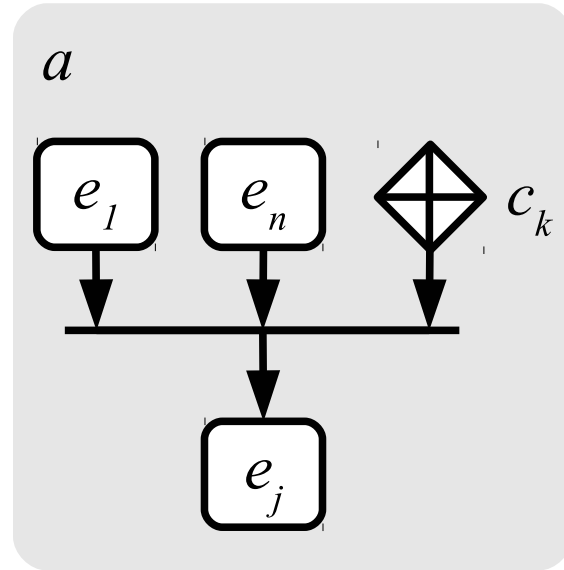
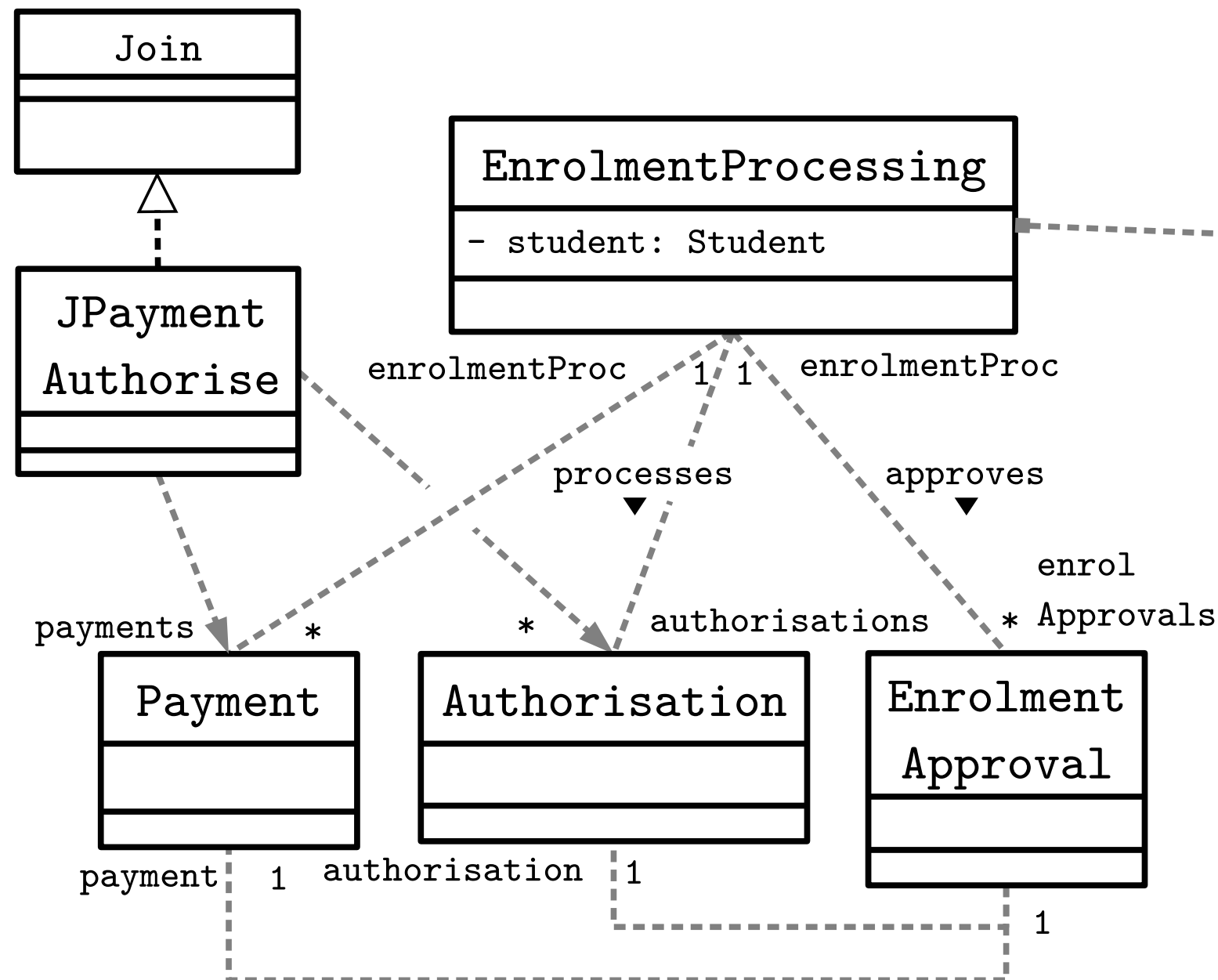
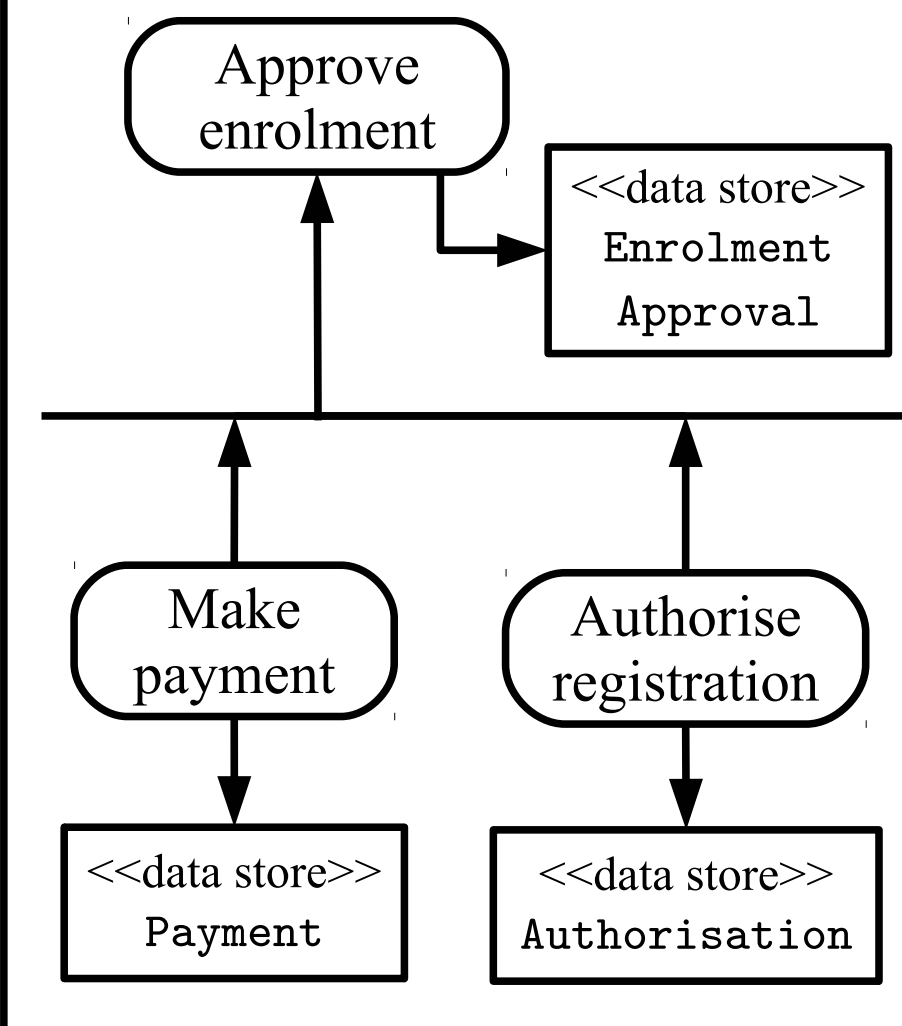


joined pattern  
(if  $c_k$  is present then  $n \geq 1$   
else  $n \geq 2$ )



```
AGraph { nodes=[
  ANode { refCls=C1,serviceCls=DataController
    outClses=[J]
    actSeq=[
      MAct{actName=newObject,pstStates=[Created]} ]
    init=true}
  ANode { refCls=Cn,serviceCls=DataController
    outClses=[J]
    actSeq=[
      MAct{actName=newObject,pstStates=[Created]} ]
    init=true}
  ANode { refCls=Ck,nodeType=k,outClses=[J],init=true}
  ANode { refCls=J,nodeType=Join,outClses=[Cj]}
  ANode { refCls=Cj,serviceCls=DataController
    actSeq=[
      MAct{actName=newObject,pstStates=[NewObject]},
      MAct{actName=setDataFieldValues
        fieldNames=["a1","an"], pstStates=[Created]} ]}
]}
```

## Enrolment Management



```
AGraph { nodes=[
  ANode { refCls=Payment,serviceCls=DataController
    outClses=[JPaymentAuthorise]
    actSeq=[
      MAct{actName=newObject,pstStates=[Created]} ]
    init=true}
  ANode { refCls=Authorisation
    serviceCls=DataController,outClses=[JPaymentAuthorise]
    actSeq=[
      MAct{actName=newObject,pstStates=[Created]} ]
    init=true}
  ANode { refCls=JPaymentAuthorise,nodeType=Join
    outClses=[EnrolmentApproval]}
  ANode { refCls=EnrolmentApproval
    serviceCls=DataController
    actSeq=[
      MAct{actName=newObject,pstStates=[NewObject]},
      MAct{actName=setDataFieldValues
        fieldNames=["payment","authorisation","student",
          "approved"], pstStates=[Created]} ]}
]}
```