**Phase II: Design Report**

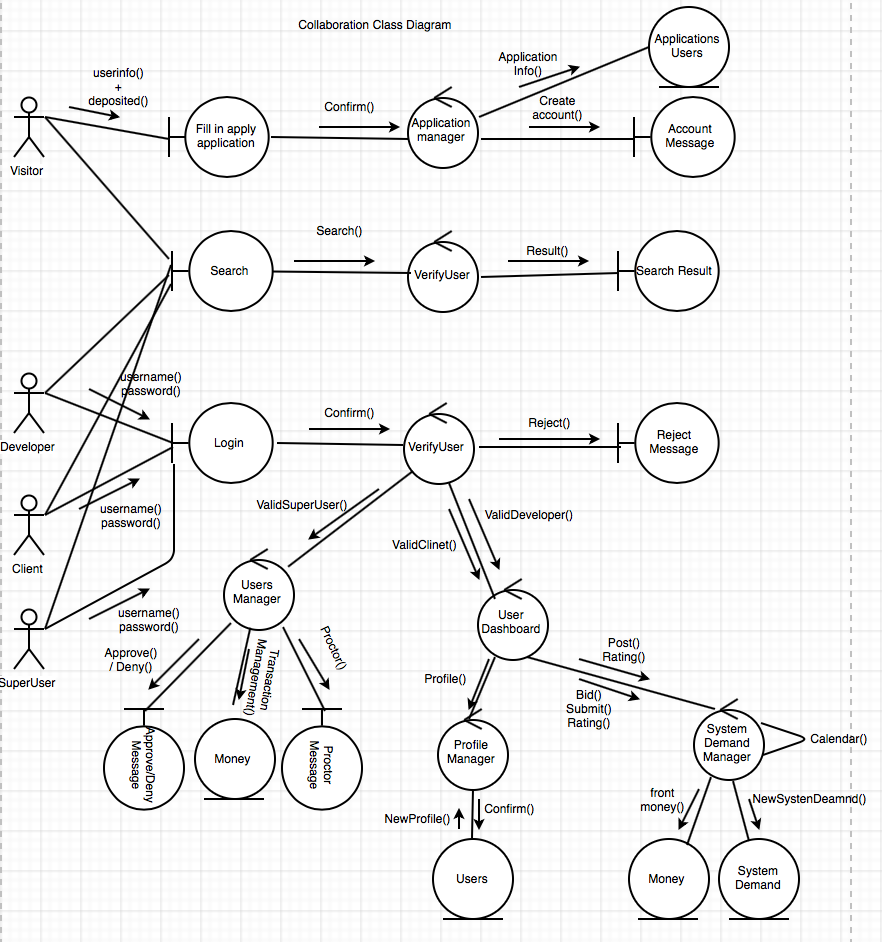
Joseph Schauer

Suman Islam

Qizhi Zhao

Weicheng Huang

# **Introduction**



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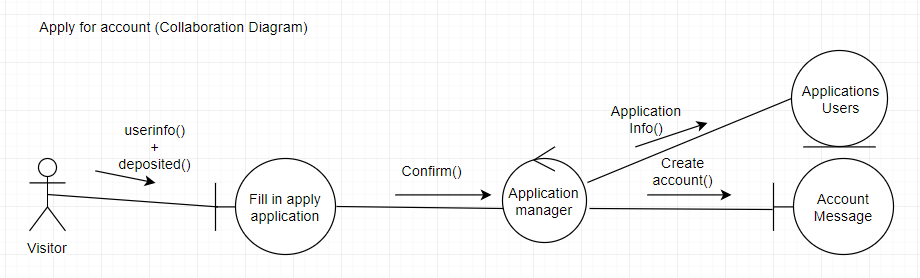
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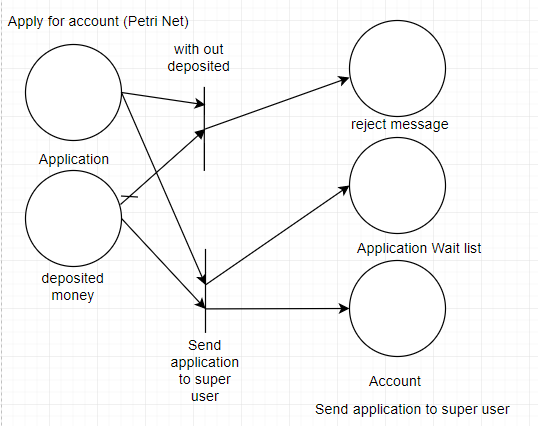
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# **All use cases**

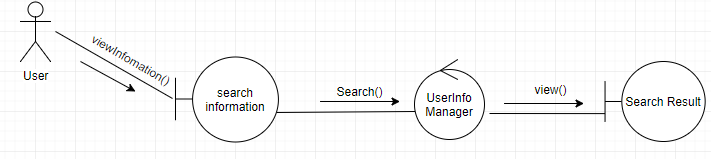
## Apply for account (Collaboration Diagram)



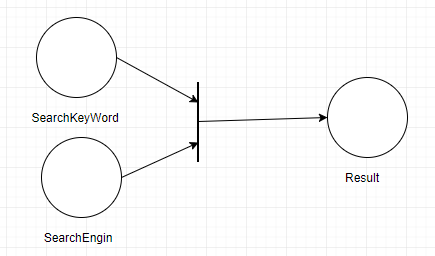
## Apply for account (Petri Net)



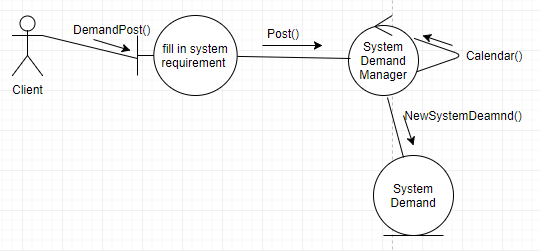
## View/search information (Collaboration Diagram)



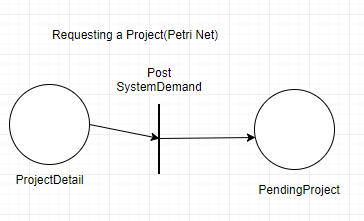
## View/search information (Petri Net)



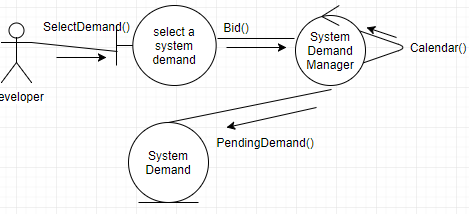
## Post Demand (Collaboration Diagram)



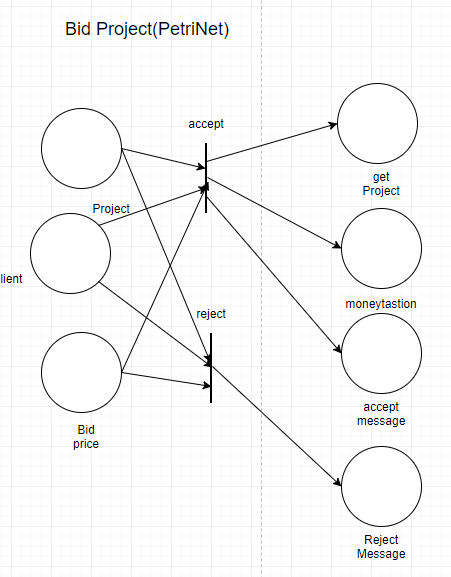
## Post Demand (Petri Net)



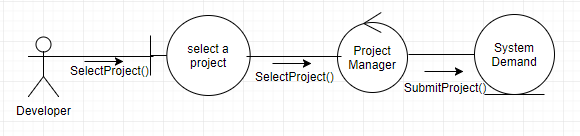
## Bid Project (Collaboration Diagram)



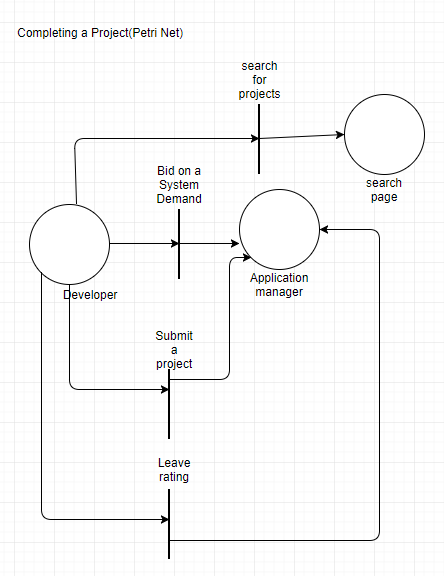
## Bid Project (PetriNet)



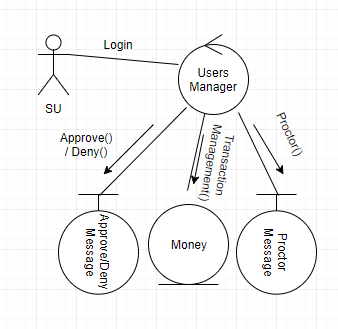
## Submit Project (Collaboration Diagram)



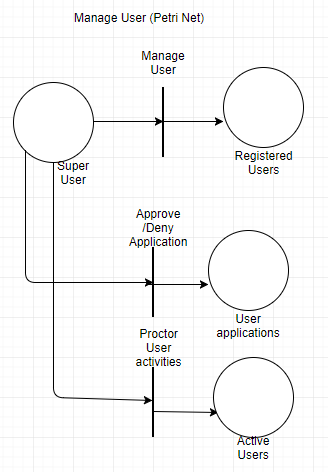
## Submit Project (Petri Net)



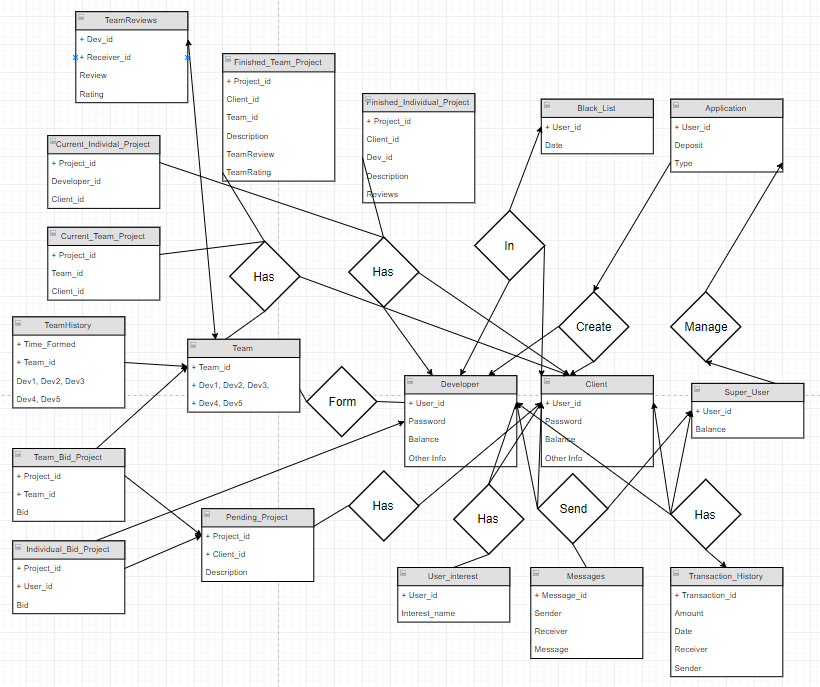
## Manage User (Collaboration Diagram)



## Manage User (Petri Net)



# **E-R diagrams for the entire system**



# **Detailed design:**

Class:Gateway:

\_\_init\_\_():

self.connect to database

self.coursor for connect

check\_backlist(user\_id):

if user.id in backlist table:

True

else

False

developer?(user\_id):

if user.id in develop table:

True

else

False

client?(user\_id):

if user.id in Client table:

True

else

False

superUser?(user\_id):

if user.id in SuperUser table:

True

else

False

matchPassword(user\_id, password):

if match

return True

else

return False

wirteToDeveloperTable(user\_id, password, other):

wirete to developer table(user\_id, password, other

wirteToClientTable(user\_id, password, other):

wirete to Client table(user\_id, password, other)

wirteToSuperUserTable(user\_id, password, other):

wirete to SuperUser table(user\_id, password, other)

updateDeveloperTable(user\_id, password, other):

updateDeveloperTable(user\_id, password, other)

updateClientTable(user\_id, password, other):

updateClientTable(user\_id, password, other)

updateSuperUserTable(user\_id, password, other):

updateSuperUserTable(user\_id, password, other)

updataFunctionForEveryTable:(info):

updataFunctionForEveryTable(info)

allProject():

return all project

allDeveloper():

return all Developer

allClient():

return all Client

allSuperUser():

return all SuperUser

Class:User:

user\_id

Class: Client(User)

information

Class: SuperUser(User):

information

Class: Dveloper:

information

Class:Team:

team\_id

developer1\_id

developer2\_id

developer3\_id

developer4\_id

developer5\_id

Class:Project:

project\_id

Class:TeamFinishedProject(Project):

information

Class:individalFinishedProject(Project):

information

Class:individalBidProject(Project):

information

Class:individalBidProject(Project):

information

Class:individalCurrentProject(Project):

information

Class:TeamCurrentProject(Project):

information

Class:Message:

message\_id

message\_text

Class: ApplyApplication():

\_\_init\_\_():

create GateWay object as Manger

CreateDeveloper(user\_id, password, other info):

if user\_id not (in developer table, client table, superuser table)

wirteToDeveloperTable(user\_id, password, other)

return True

else

return Flase

CreateClient(user\_id, password, other info):

if user\_id not (in developer table, client table, superuser table)

wirteToClientTable(user\_id, password, other)

return True

else

return Flase

CreateSuperUser(user\_id, password, other info):

if user\_id not (in developer table, client table, superuser table)

wirteToDeveloperTable(user\_id, password, other)

return True

else

return Flase

Class Login():

\_\_init\_\_():

create GateWay object as Manger

identify(user\_id, password):

if blacklist?

return NULL

if develop?

if matchPassword(user\_id, password):

return new class Developer

else

return False

if client?

if matchPassword(user\_id, password):

return new class Client

else

return False

if superuser?

if matchPassword(user\_id, password):

return new class Superuser

else

return False

Class SearchEngine():

\_\_init\_\_():

create GateWay as Manger

serachAllProject():

return a list of class project

searchTeam():

return a list of class team

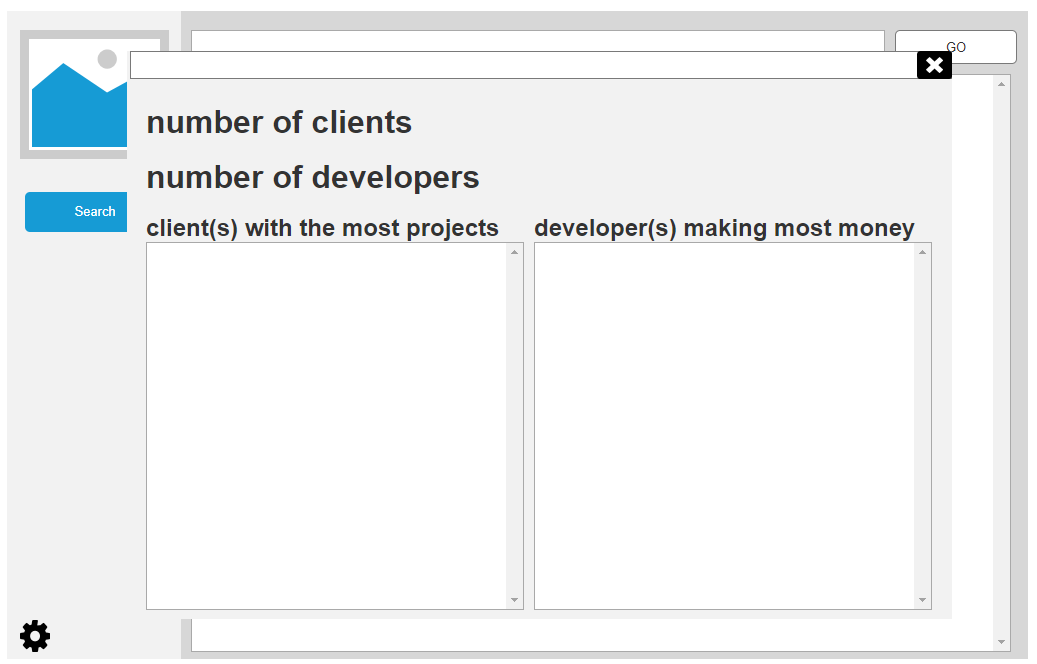
serachAllUser():

return a list of all user

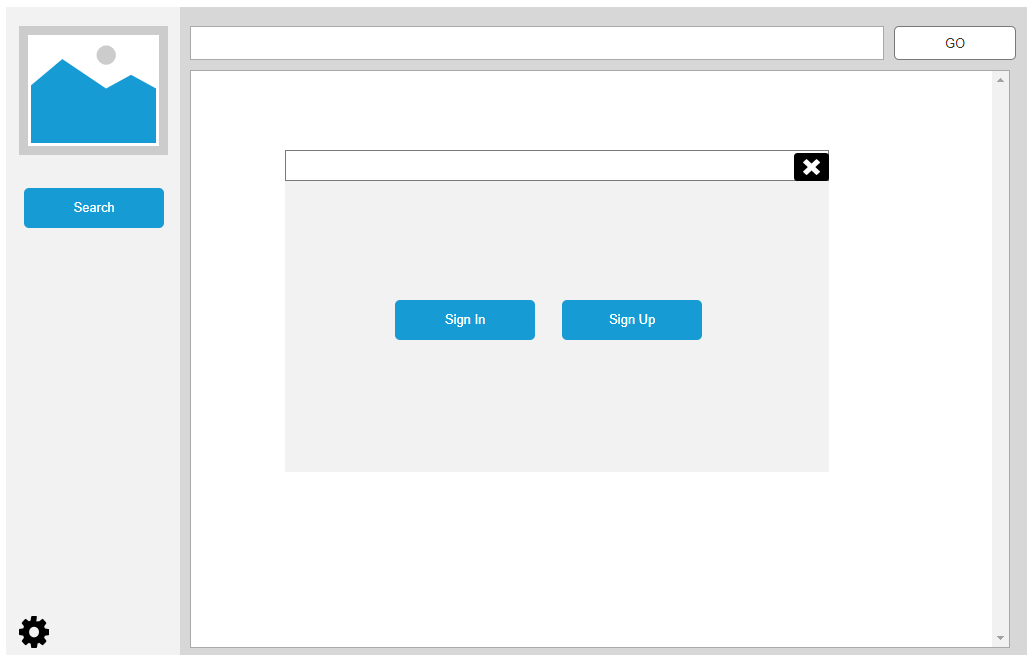
# **System screens:**



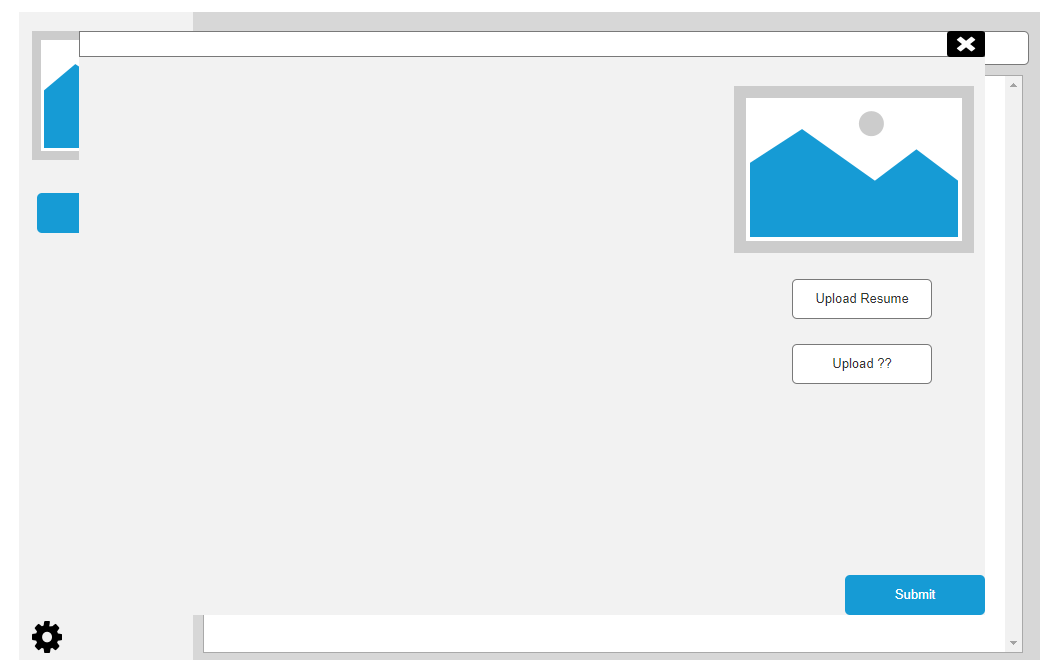
*Before sign in*

**

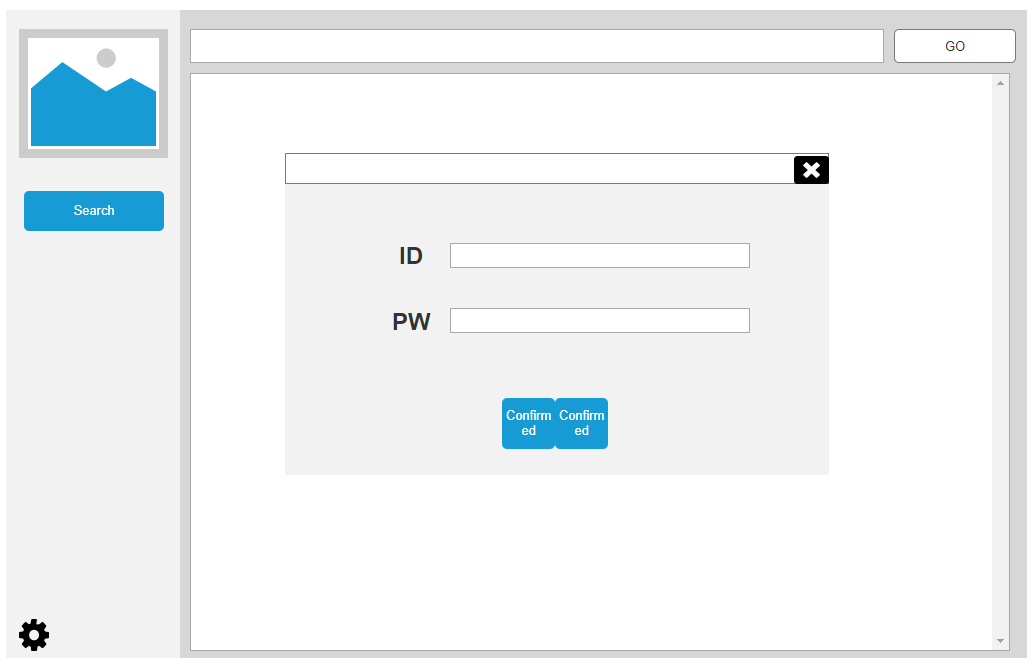
*View Statistics*

**

*Sign in and sign up*

**

*sign up*

**

*sign in*

**

*sign in as a client*

**

*sign in as a develop*

# **Minutes of group meetings**

Friday 11am - 6 pm

# **Minutes of group meetings**

down the corrected version via link <https://github.com/whuang001/cts/tree/Weicheng/docs>