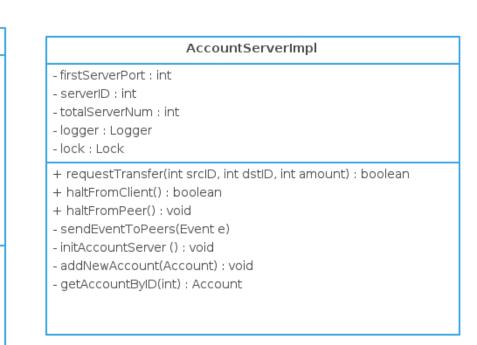## Application

+Main(String args):void

Event

- timeStamp : int
- accountServerID : int
- peerProceedMap : HashSet()
- srcID : int
- dstID :int

Getter
Setter
Constructor
+ newPeerProceed(int id)

PeerPacket

- e : Event
- senderTimeStamp : int

Getter
Setter
Constructor

PeerCommunicationImpl

- firstServerPort : int
- serverID : int
- totalServerNum : int
- logger : Logger
- lock : Lock
- logicalClock : AtomicLong
- eventQueue: PriorityQueue<Event>
- accountServer : AccountServer
- peerServer : PeerCommunication[]

+ addEventToQueue (Event e) : void
+ broadcastRequest(PeerPakcet pp) : void
- initAccServerAndPeerServer()
- halt() : void
- checkQueueAndExecuteEvent(int timestamp) : void
- executeEvent(Event t)

AccountServerImpl

- firstServerPort : int
- serverID : int
- totalServerNum : int
- logger : Logger
- lock : Lock

+ requestTransfer(int srcID, int dstID, int amount) : boolean
+ haltFromClient() : boolean
+ haltFromPeer() : void
- sendEventToPeers(Event e)
- initAccountServer () : void
- addNewAccount(Account) : void
- getAccountByID(int) : Account