

Data Scheduler

```
int id;
enum HouseType;
int address;
enum addressType;
Job job;
int curBuilding;
int destination;
enum VehicleType;
enum Intent { withdraw, deposit, sleep, work}
Gui gui;
Semaphore animation;
List<Role> roles;
int hungerLevel;
double money;
Inventory inventory;
enum Moraility (good, crook)
enum PersonState {walking, inside, sleeping, idle}
Inventory inventory;
```

```
//Role pick and execute and action.
if there exists an active Role r in roles
then boolean ret = r.pickandExectueAnAction()

Otherwise
if PersonState is sleeping
then goToSleep();

// What to do as a person.
// If low on money then go to bank.
// If hungry then go to restaurant.
// Depending on time of day, go to work or go home.

if destination is not -1
then goTo(destination);
return ret;
```

Messages Utility

```
void msgCreateRole(Role r){
   if there does not exists r in roles
      then roles.add(r);
}

void msgSleep(){
   sleeping = true;
}

void msgEnterBuilding(Building b){
   destination = b.id;
}

void msgEnteredBuilding(Building b){
   curBuilding = b.id;
}
```

```
void goTo(Building b)
{
  b.msgEnterBuilding(this);
  //call gui animation
}

void stateChanged();

void acquire(){
  animation.acquire();
}

void release(){
  animation.release();
}

void goToSleep(){
  destination = house.id;
}
```

Super Class Role

Data	Scheduler
Person myPerson; boolean active;	abstract pickAndExecuteAction;

Messages

void stateChanged(){
 myPerson.stateChanged();

