

CPT

- Please add:
- over page
 - short textual description of each figure
 - domain model

SSD for use case 1

use case title

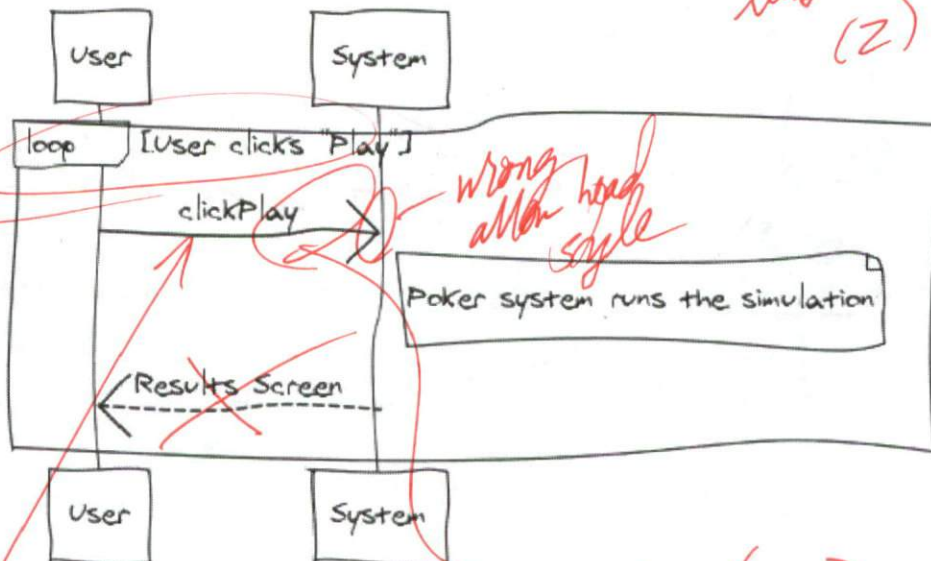
loop User clicks "Play"

User->System: clickPlay

note right of System: Poker system runs the simulation

System-->User: Results Screen

End



If you must include this in the document, at least (1) label it, (2) use a small font & (3) put it after the drawing, if possible.

any parameters?
e.g., number of players
parallel vs. sequential

Or perhaps expand the note to say that the simulation runs using the current references.

SSDs

should

not be

in terms of

the

UML

You're

trying to
identify
operations
the system
coming into
the domain
layer, not
use cases
in a
new format

to draw
use cases
in a
new format

use cases
in a
new format

use cases
in a
new format

use cases
in a
new format

use cases
in a
new format

SSD for use case 2

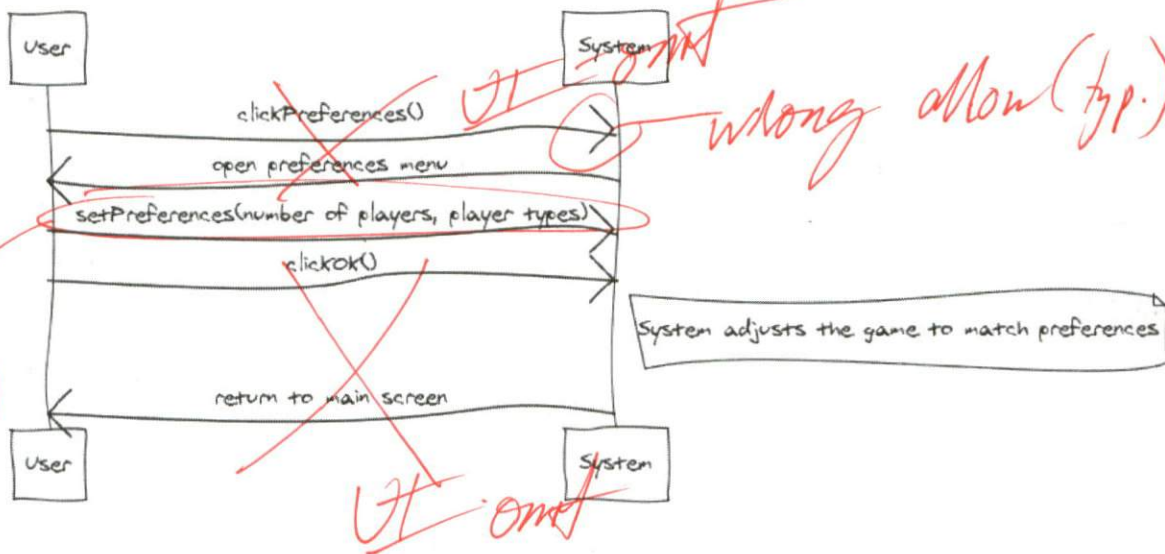
User->System: clickPreferences()

System->User: open preferences menu

User->System: setPreferences(number_of_players, player_types)

note right of System: System adjusts the game to match preferences

System->User: return to main screen



this is a
decent system
operation. It
would be better
if there was slightly
more detail on
what "player types"
means.

SSD for use case 3

loop User plays the game

System->User: subtracts opening bid and deals cards

User->System: makeMove(options)

note right of User: options include: call, raise, fold

alt User calls or raises

System->User: complete round of bidding

else User folds

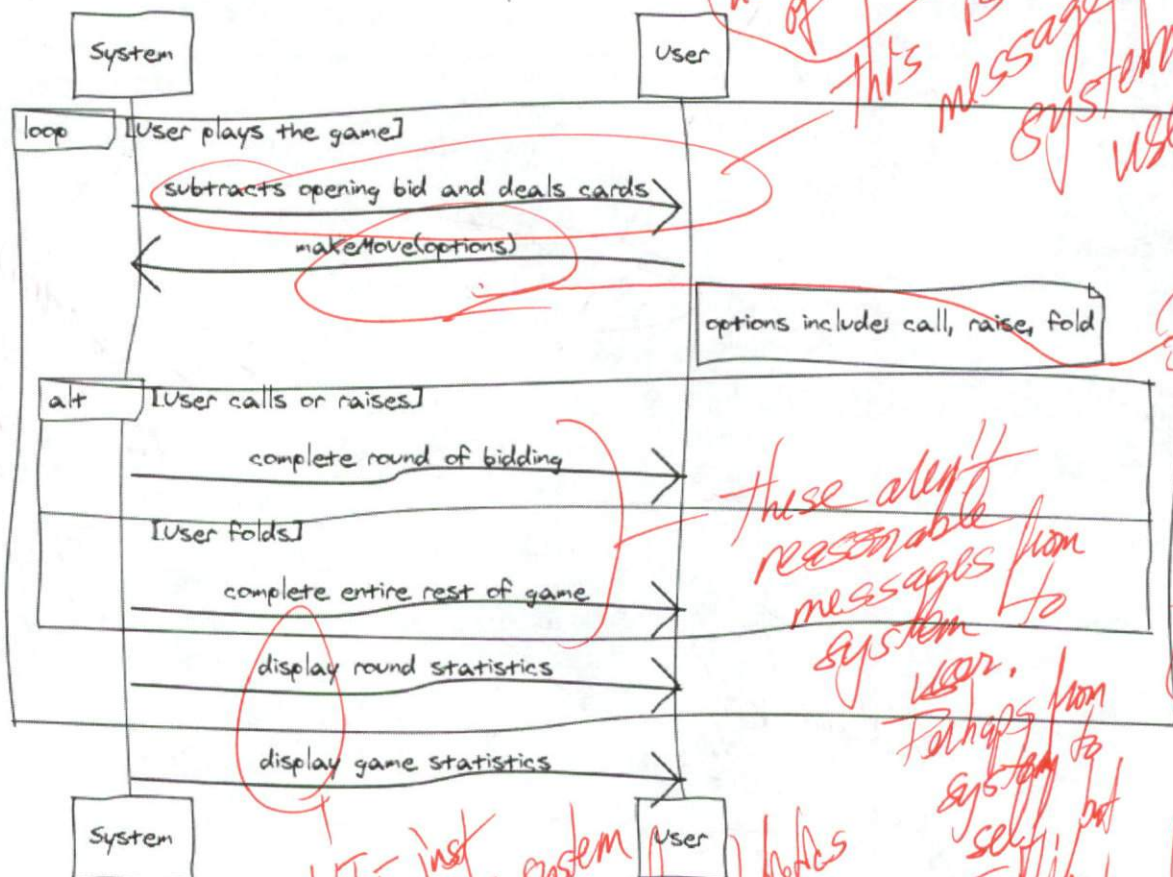
System->User: complete entire rest of game

end

System->User: display round statistics

end

System->User: display game statistics



I'm not wild about having the System in the middle hell. I think you want the user in the game roll the dice. I think you want the user to make assumptions about the pre-state of the system. This is a message from system to user?

these aren't reasonable messages from system to user. Perhaps from system to self, but I think the user will help decide.

I think you want three alternatives here in the default system operation.

UI - just show the system returning round & game statistics

Contract CO1: clickPlay

Operation:

Cross References:

Preconditions:

Postconditions:

clickPlay()

Use Cases: Starting the Game

User has set player options

The user watches the simulation take place

Contract CO2: setPreferences

Operation:

Cross References:

Preconditions:

Postconditions:

setPreferences()

Use Cases: Setting Player Options

The application has initialized properly

Parameter menus are functioning properly

The types of players have changed based on what the user has selected.

Contract CO3: playGame

Operation:

Cross References:

Preconditions:

Postconditions:

playGame()

Use Cases: N/A

User has set player options to include human player

User has clicked "Start" button

User views game statistics and/or plays another game

Contract CO4: makeMove

Operation:

Cross References:

Preconditions:

Postconditions:

makeMove()

Use Cases: N/A

The game is in play

It is the user's turn in the game

The appropriate amount of chips move to the pot

The user's stack is deducted the appropriate amount

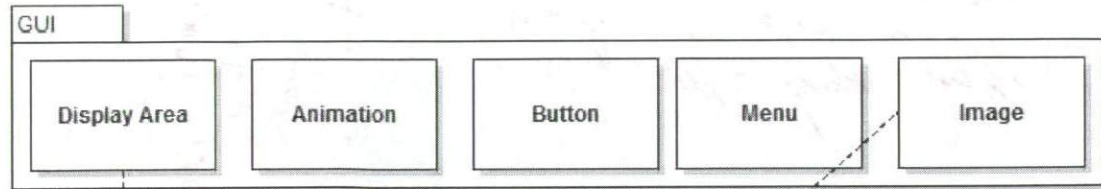
The game continues on to the next turn

parameters?
see notes
on SSB

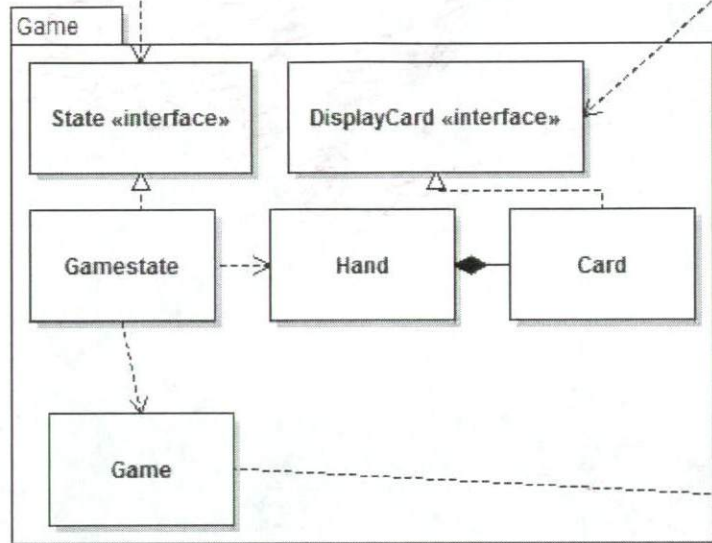
Post conditions
must be
(1) Past tense
(2) In terms
of changes
to the
domain
model.
(typ.)

see notes
on problems w/ SSB

parameters



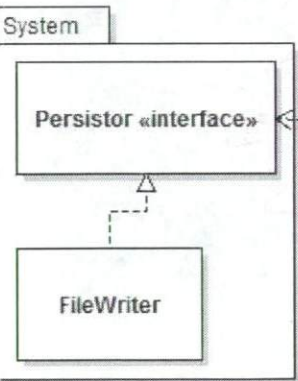
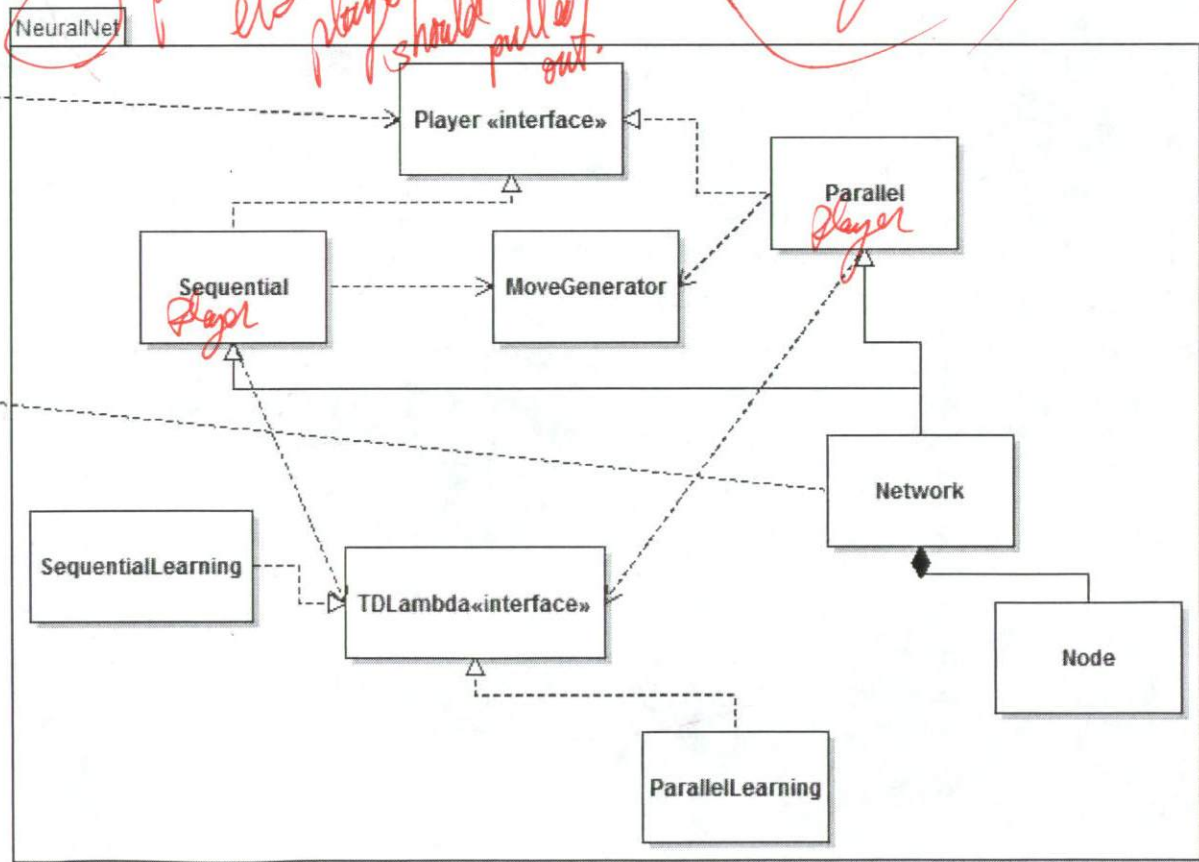
Trif



Nice job limited dependencies between packages

Nice job fitting this onto a page. In a readable way.

Seems a poor name, or else the player should be pulled out.



Set Preferences Operation

participant User

participant GraphicalFrame

participant GameController

User -> GraphicalFrame: setPreferences(number of players, player types)

activate GraphicalFrame

GraphicalFrame -> GameController: createPlayers(numPlayers)

activate GameController

GameController --> GraphicalFrame: playersCreated

deactivate GameController

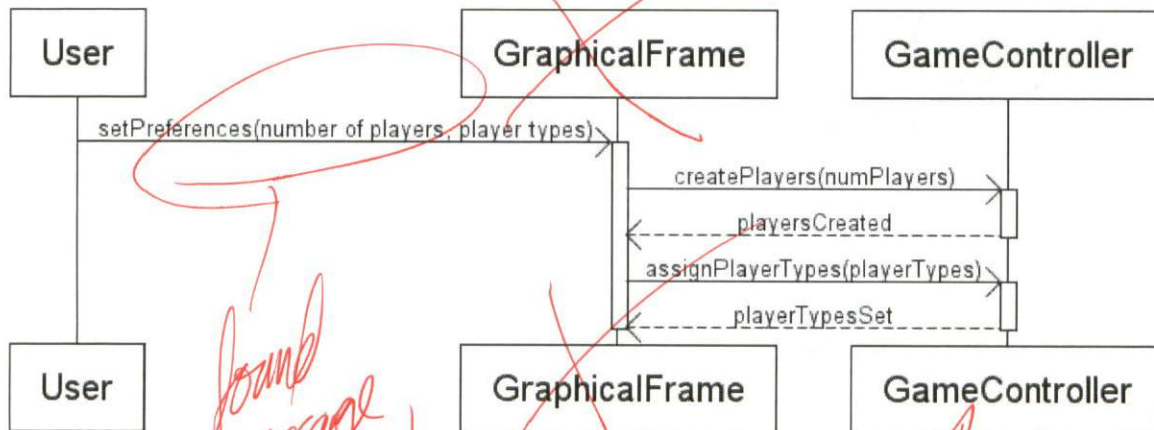
GraphicalFrame -> GameController: assignPlayerTypes(playerTypes)

activate GameController

GameController --> GraphicalFrame: playerTypesSet

deactivate GameController

deactivate GraphicalFrame



see page 1

No UML on interaction diagrams! We're just modeling the domain.

found message should target the controller object

does game controller store the preferences itself? Should it create/maintain objects to store them?

Perhaps the domain layer, but does it store prefs at all, but gets them if the platform sys. op.

Begin Game Operation

participant User

participant GraphicalFrame

participant GameController

User -> GraphicalFrame: clickPlay

activate GraphicalFrame

GraphicalFrame -> GameController: startGame

activate GameController

GameController --> GraphicalFrame: gameStarted

GameController -> GameController: makeMove

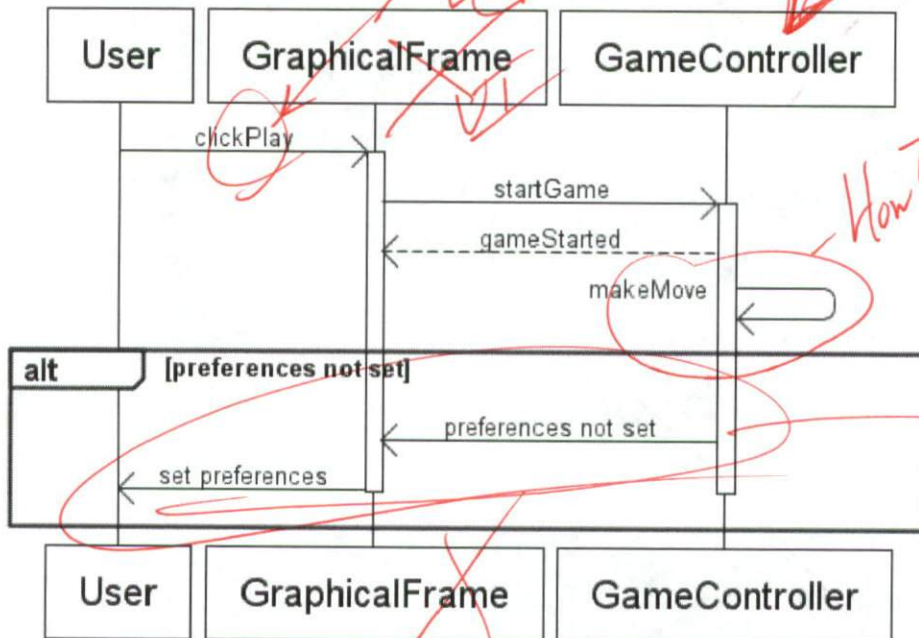
alt preferences not set

GameController -> GraphicalFrame: preferences not set

GraphicalFrame -> User: set preferences

deactivate GameController

deactivate GraphicalFrame



playGame is much better. Do you see why?

What objects does the Game Controller have to interact with? That's the whole point of diagrams.

How?

This is a strange diagram for having the user interface store the preferences & to pass them in with the playGame sys. op.

Make Move Operation

participant User

participant GraphicalFrame

participant GameController

User -> GraphicalFrame: makeMove(options)

activate GraphicalFrame

GraphicalFrame -> GameController: makeMove(options)

activate GameController

GameController -> GameController: updateGameState

GameController -> GraphicalFrame: moveMade

alt illegal move

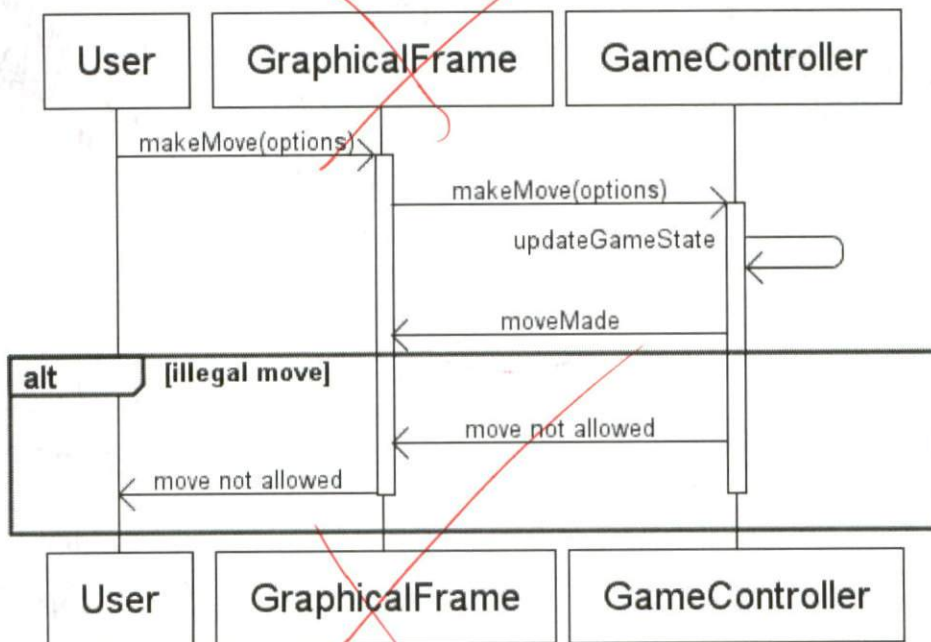
GameController -> GraphicalFrame: move not allowed

GraphicalFrame -> User: move not allowed

deactivate GameController

deactivate GraphicalFrame

*see notes
on SSD, oc,
& on previous
page*



Display Round Statistics Operation

participant User

participant GraphicalFrame

participant GameController

User -> GraphicalFrame: displayRoundStatistics

activate GraphicalFrame

GraphicalFrame -> GameController: displayRoundStatistics

activate GameController

GameController -> GameController: getRoundData

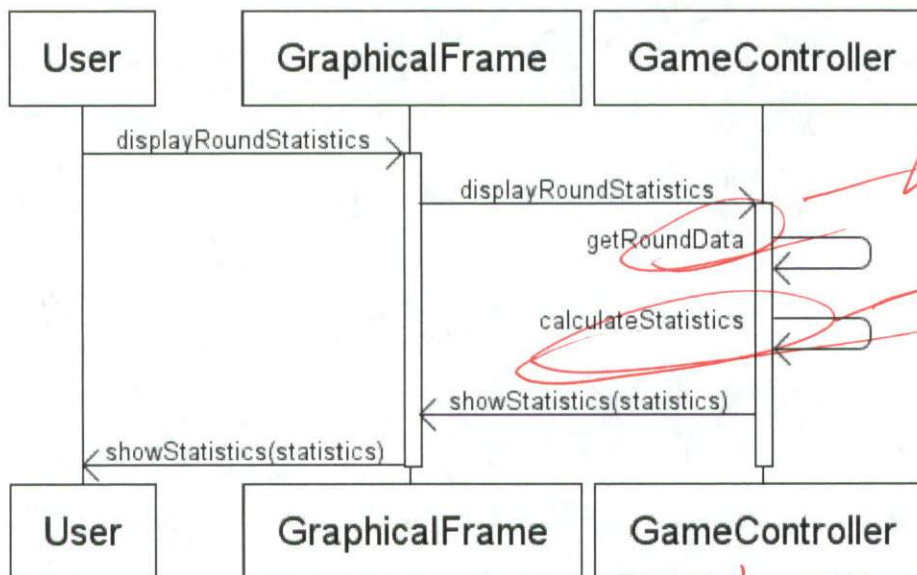
GameController -> GameController: calculateStatistics

GameController -> GraphicalFrame: showStatistics(statistics)

GraphicalFrame -> User: showStatistics(statistics)

deactivate GameController

deactivate GraphicalFrame



*Your game controller is
just one giant user-class
according to these drawings.
⇒ terrible cohesion.*

Display Game Statistics Operation

participant User

participant GraphicalFrame

participant GameController

User -> GraphicalFrame: displayGameStatistics

activate GraphicalFrame

GraphicalFrame -> GameController: displayGameStatistics

activate GameController

GameController -> GameController: getGameData

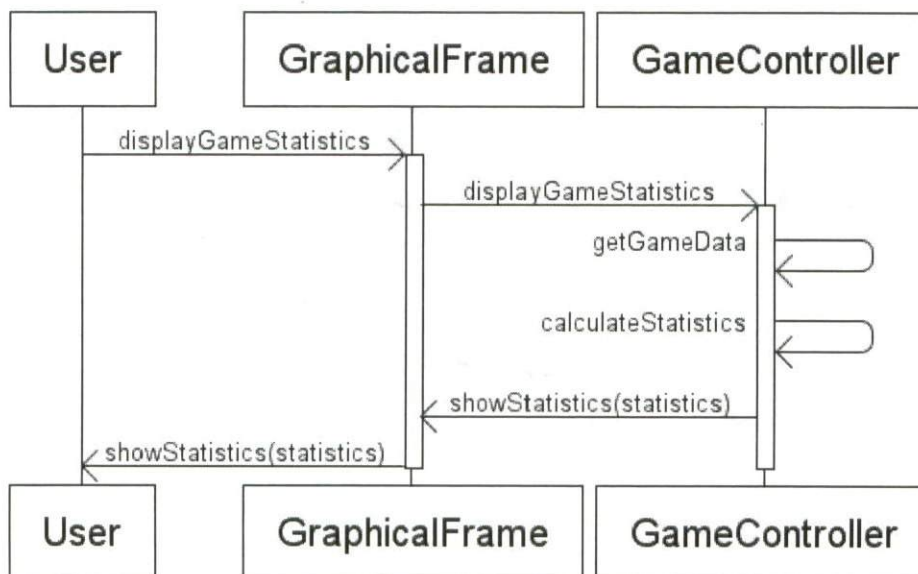
GameController -> GameController: calculateStatistics

GameController -> GraphicalFrame: showStatistics(statistics)

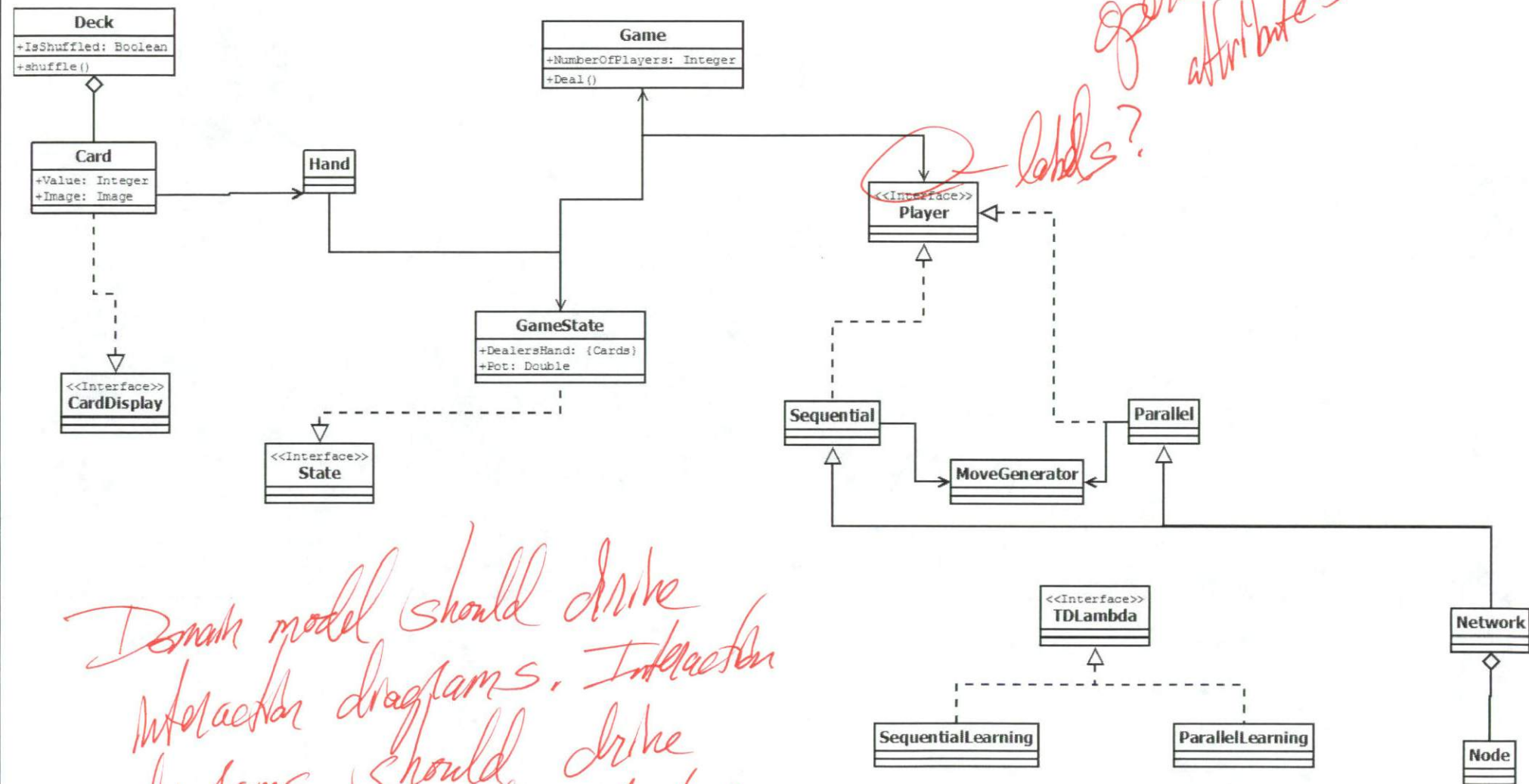
GraphicalFrame -> User: showStatistics(statistics)

deactivate GameController

deactivate GraphicalFrame



see previous page



Domain model should drive
interaction diagrams. Interaction
diagrams should drive
design class diagram.