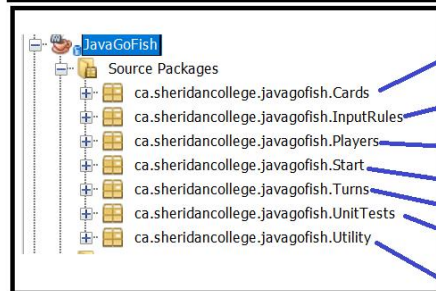


Java Go Fish Diagrams

10, 000 Foot View:

Project Structure:



Classes for cards, dealer, and deck.

A class for input rules.

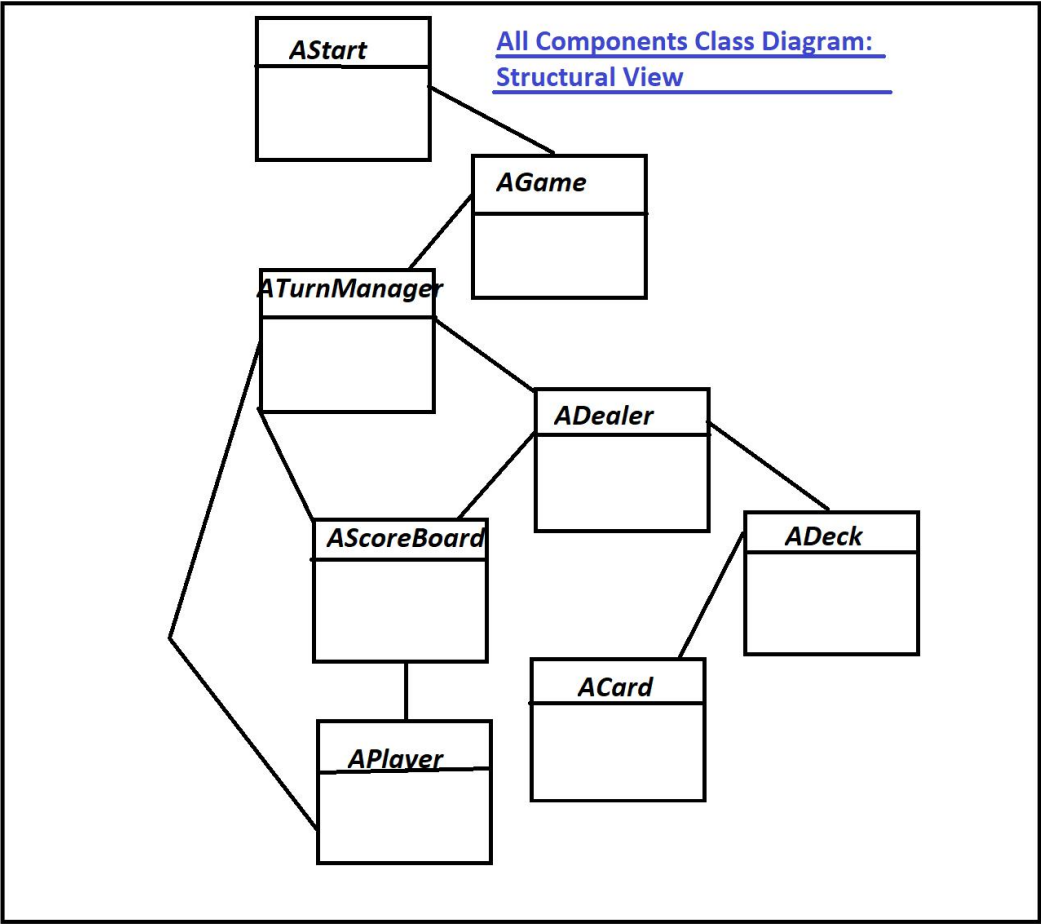
Classes for player types.

Classes for games, starting, and rounds,

Classes for keeping score, and
managing turns.

Classes modelling coponents in
isolation.

Printing & Input classes.



User Interface Description

Creating Hands: **Feedback for human player when action occurs.**

Creating Duplicate Lists: **Feedback for action occurring.**

Setting who goes first **Feedback for action occurring.**

Round One

[Aleks] -In Play Hand: **Human players hand as console output.**

ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
FOUR of SPADES
FIVE of HEARTS
QUEEN of HEARTS
TWO of DIAMONDS

[Aleks] -In Play Desirable List: **Human players duplicate list.**

ACE of SPADES
ACE of DIAMONDS

[Computer] -Not In Play Hand: **Computer hand so prof can test and see changes.**

EIGHT of CLUBS
KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
SIX of HEARTS
SIX of SPADES
THREE of CLUBS

[Computer] -Not In Play Desirable List: **Computer duplicate list. For professor to test my code and see changes.**

QUEEN of SPADES
QUEEN of CLUBS
SIX of HEARTS
SIX of SPADES

Which card value do you want? **Human asks for a card of the computer here.**

Enter a String: **Can type now on keyboard**

Which card value do you want?
Enter a String:
eight

I typed eight because I know computer has it.

Computer does have EIGHT

Feedback for human user to know if ask was a success.

Calculating dupes for Aleks

Duplicates are recalculated for Human because they get the card.

Aleks dupes:

Human duplicates are printed out for Human to see.

ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS

[Aleks] In Play Hand:

ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS
FIVE of HEARTS
FOUR of SPADES
QUEEN of HEARTS
TWO of DIAMONDS

Humans updated hand is also printed out for clarity.

[Computer] Not In Play Hand:

KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
SIX of HEARTS
SIX of SPADES
THREE of CLUBS

Computer updated hand is printed out for prof to see my code working.

Which card value do you want?

Enter a String:

Game waits for Human to ask for a card again because there ask was a success.

Which card value do you want?
Enter a String: ace I asked for a card I know computer doesn't have to show how turns are switched.
Computer does not have ACE Feedback to let Human know there ask was unsuccessful.

Calculating dupes for Aleks Recalculate duplicates for Human and notify action is occurring.

Aleks dupes: [ACE of SPADES, ACE of DIAMONDS, EIGHT of SPADES, EIGHT of CLUBS] Print Human duplicates.

Aleks In Play Hand: Print Humans hand as latest current.
ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS
FIVE of HEARTS
FOUR of SPADES
JACK of HEARTS
QUEEN of HEARTS
TWO of DIAMONDS

Computer Not In Play Hand: Print computers hand as latest current.
KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
SIX of HEARTS
SIX of SPADES
THREE of CLUBS

Switching who's in play Swtiching turn and notifying action is occurring.

[Computer] In Play Notifying who's currently the player who's turn it is.

[Aleks] Not In Play Notifying the new player who's not in play currently.

Calculating books for Aleks Notifying that we're checking fo four of a kinds for player turn that ended.

[Computer] -In Play Hand: Printing computers current hand so user doesn't have to scroll.
KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
SIX of HEARTS
SIX of SPADES
THREE of CLUBS

[Computer] -In Play Desirable List: Showing computers duplicates fo prof to verify correct code.
QUEEN of CLUBS
SIX of HEARTS
SIX of SPADES

[Aleks] -Not In Play Hand: Printing humans current hand so they don't have to scroll up.
ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS
FIVE of HEARTS
FOUR of SPADES
JACK of HEARTS
QUEEN of HEARTS
TWO of DIAMONDS

```
[Aleks] -Not In Play Desirable List:
ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS
```

Show humans hand to prevent scrolling.

```
Computer is asking for: QUEEN
Do you have any?
Enter a String:
```

Freeze program with a user prompt, so Human can follow what's happening without having to scroll back up.

```
Computer is asking for: QUEEN
Do you have any?
Enter a String:
yes
Ok thanks for confirming
```

Your response doesn't change anything, it's just to freeze section of program so Human doesn't have to scroll up.

Feedback to give user some interaction.

```
Aleks does have QUEEN
```

Let Human know if the ask was successful.

```
Calculating dupes for Computer
```

Printing updated duplicates for computer because he got a card.

```
Computer dupes:
QUEEN of CLUBS
QUEEN of SPADES
QUEEN of HEARTS
SIX of SPADES
SIX of HEARTS
```

Printing the duplicates so prof. can verify correct code.

```
[Computer] In Play Hand:
KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
QUEEN of HEARTS
SIX of SPADES
SIX of HEARTS
THREE of CLUBS
```

Print computers current hand as latest for prof. verification.

```
Computer is asking for: QUEEN
Do you have any?
Enter a String:
```

Human doesn't have so I said no. response has no weight it's just for scroll prevention.

```
no
Ok, computer will go fish then
Aleks does not have QUEEN
```

Human get's notified that the ask was not successful. Which they already know.

```
Calculating dupes for Computer
```

Print current duplicates for computer is action occurring.

```
Computer dupes: [QUEEN of CLUBS, QUEEN of SPADES, QUEEN of HEARTS, SIX of SPADES, SIX of HEARTS, THREE of CLUBS, THREE of SPADES]
```

Show current duplicates of computer for prof. code verification.

```
Computer In Play Hand:
KING of HEARTS
QUEEN of CLUBS
QUEEN of SPADES
QUEEN of HEARTS
SIX of SPADES
SIX of HEARTS
THREE of CLUBS
THREE of SPADES
```

Print current computer hand for prof. code verification.

```
Aleks Not In Play Hand:
ACE of SPADES
ACE of DIAMONDS
EIGHT of SPADES
EIGHT of CLUBS
FIVE of HEARTS
FOUR of SPADES
JACK of HEARTS
```

Print humans current hand.

Switching who's in play **Let human know players whos in turn is being switched.**

[Aleks] In Play **Notify who's the current player in play.**

[Computer] Not In Play **Notify players whos not in play.**

Calculating books for Computer **Notify 4 of a kind is calculated for previous in play player.**

[Aleks] -In Play Hand:

ACE of SPADES

ACE of DIAMONDS

EIGHT of SPADES

EIGHT of CLUBS

FIVE of HEARTS

FOUR of SPADES

JACK of HEARTS

TWO of DIAMONDS

Print humans hand to prevent scrolling annoyance.

[Aleks] -In Play Desirable List:

ACE of DIAMONDS

EIGHT of SPADES

EIGHT of CLUBS

Print current human hand for same reason.

[Computer] -Not In Play Hand:

KING of HEARTS

QUEEN of CLUBS

QUEEN of SPADES

QUEEN of HEARTS

SIX of SPADES

SIX of HEARTS

THREE of CLUBS

Print computer's hand so prof. can see updates happening.

[Computer] -Not In Play Desirable List:

QUEEN of CLUBS

QUEEN of SPADES

QUEEN of HEARTS

SIX of SPADES

SIX of HEARTS

THREE of CLUBS

THREE of SPADES

Print computers hand.

Which card value do you want?

- Enter a String:

Human back to being the asker.

This cycle keeps repeating per cards in the deck.