D Clars Hagram

11) Design Pattern

111) Winning Strategy DU)

111) Undo Scenario.

## » class diagram

- · Nouno
- · Visualization of user journey

Chame Symbol
Payer
Bot
Board
Lell
Move

NAMESTAPE
IN-PROGRESS,
WIN.
DRAW,
YESTOSTAPS,

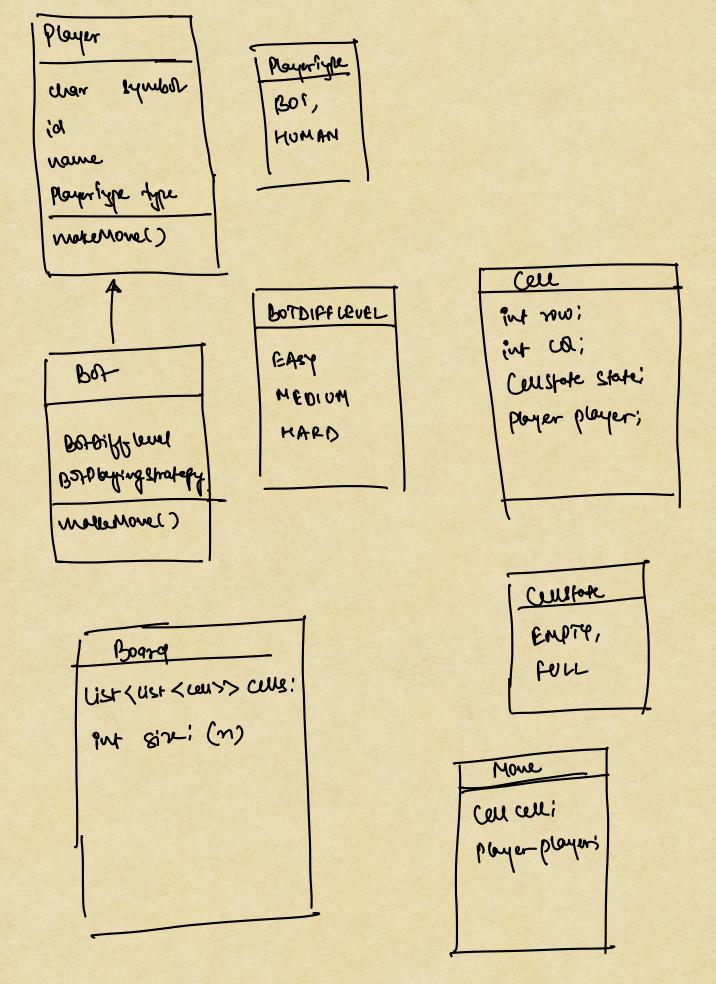
board board;

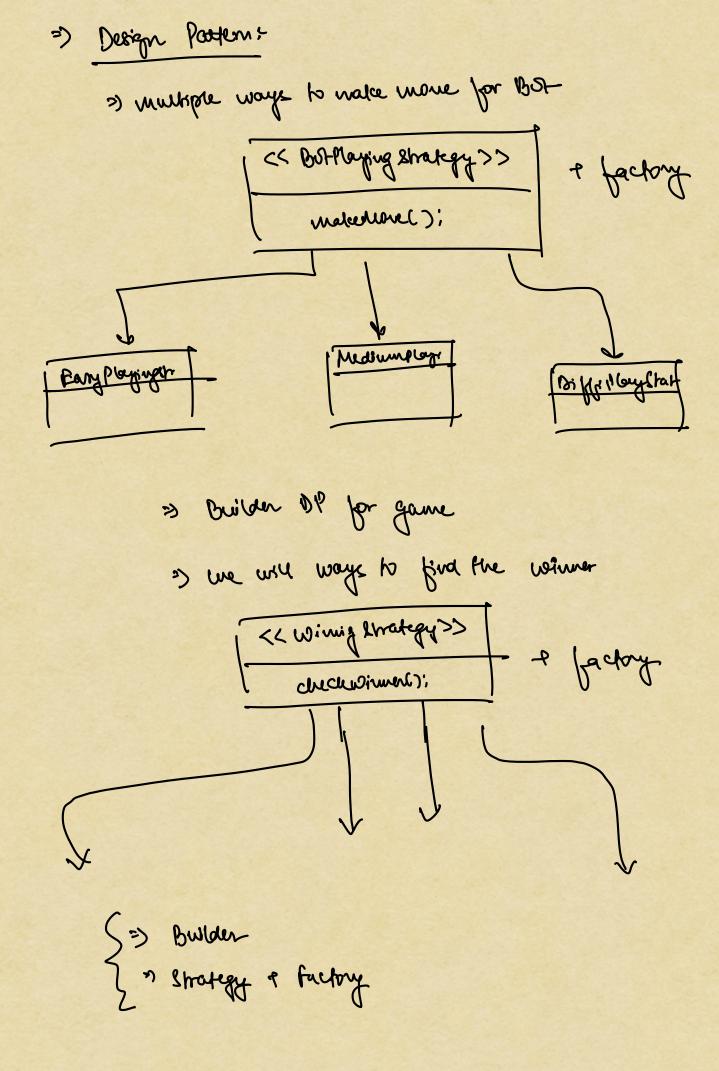
Cist<Player> players;

Cist<Move> moves;

Player winner;

Comestate Ltate;

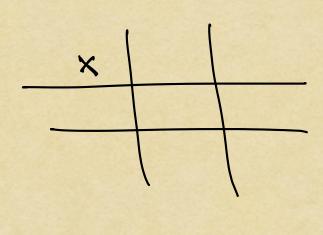




=) coud" 3)

Barne shorpes en of A Courser Panne shorpes (n a non

X O

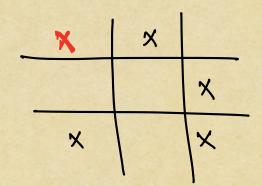


of for all symbols, check if anyone is the winner by iterating the entire board!

(N-1) X (NXN) 3 O(N3)

we don't need to check for all symbols, furt check for most secently played symbols

> (C(N2)



or diag. corresponding to the last played cell

t gied - H

t gied - H

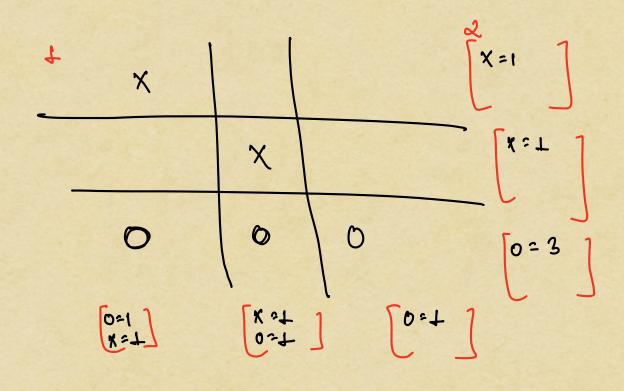
t gied - H

T gied - H

Anon - H

[x=0] [x=1,0=1] [x=1,0=1] [x=0,1=x] [x=0,0=1] [x=0,0=1]

X10



3) maintain habhmaps

=) all rows

of churs

3 2 diagonale

3x3 = matry

a blader blade o more:

10710

for that symbol = = N

> How to implement UNDO!

3 ways 1) Kuch Kuch Haa Hai 11) Our Shaut Our 111) Doraemon

t) Know Know Hola Hai

(34K Move) => [[010] [011] [012]./]

mgo

1) delete the move the list 1) remove the last change from the board.

## 11) Our Showles Our

 $UST(noms) = \left[ \begin{bmatrix} 0.0 \\ x \end{bmatrix} \begin{bmatrix} 0.1 \\ 0 \end{bmatrix} \begin{bmatrix} 0.2 \\ x \end{bmatrix} \begin{bmatrix} 1.0 \\ x \end{bmatrix} \begin{bmatrix} 1.1 \\ 0 \end{bmatrix} \right]$ 

i) everytime we do undo,
we clean the cutix board
in replay on the remaining money

if only redone I step so high TC

111) Doramon approach

 Carrent Crusent