Chess Requirements Analysis

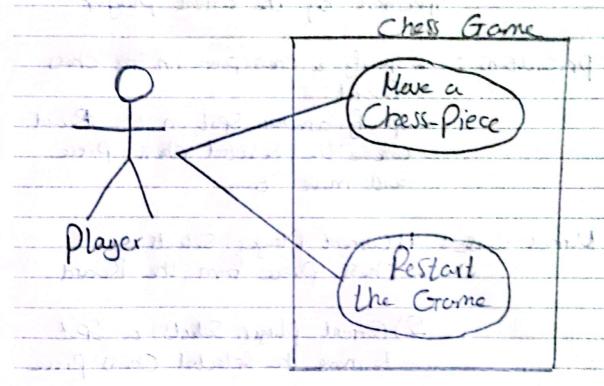
1 What does the User Wort i

- he gave is the following Statement
- I want a 5x5 Chess geme containing a King, Jumper, Runner, Tower and Pown Pieces, I want to play the Chess geme with my friends and want it to be to Some extent easy to use and visually appealing"
- After Some time with the user we could come up with the following requirements that our program Should have:
 - DA Graphical user Enterface displaying a SxS board intialised with the white and black chess pieces
 - 2) A mechanism to move the Chess piece Prefarbly using the mouse arsor
 - 3) When moving a chess piece display the auxiliable moves that can be taken on the chess Board
 - (a) In case of dead chess pieces remove them from the Chess Board and graphically Specify which pieces have died

Ches Payment Bridges 3) After each Chess move the Chess Board updates according to the chass pieces marements (6) State the winner player in case of Check make, else Specify Draw in Case the game reached a State where no one con win ?

2 Use Case Diagram:

- ⇒ Based on the requirements we gethered we come up with the following use Cases
 - a) Hove a Chess Piece b) Pestort Grome



(Use Case Specification)

a Move a chess piece

Actor: Current Player
Description: Marks a Chess piece from its
Current Spot to the consther Spot
Specified by the current player

Preconditions: - specify a Chess piece on the Choss

- Specify another Spot on the Board where the Selected Khess Piece will move to

Die Gede Diegran :

Normal Co-15e: 1) Current Player Selects a Chess Piece From the Board

> 2) Current player Selects a Spot to move the Selected Chass Pièce

3) Chass Piece moves to the Specified Spot

4) the Spot Contains any Chess piece from the Other Player Chess pieces, it dies and is displayed that this Chess Piece died

5) Update the Board 6) Correct Player is Charged to the other Player

Post Conditions: - A chess piece move could result in on a checkmate end one of the pleyers winning and the game ending A chess piece move could result in a Draw between the 2-players and the game ending
Exceptions of The current Player Chases on
2) The current Player Charses on involid Chess Piece
empore store Players
Part Construct - Construct Charles I Hay Charge
Creption a vine

[b] 11 Restart the Games 1200
in as a concilerate and speciment
Actor: Any Player
Description: Pestorts the Game by initialising the Board Chess Board to
the Board Chess Board to
oits initial State-
Bound - C and now body even the 2 - physical
Pre Conditions: None
Mormal Course: 1) One of the 2 Players
Clicks the Restort the
Grome Betton
2) The B Chess Board is
initialised to its initial State
5) The 2 Players Stort Playing
3) The 2 players start playing of if it was a new game
Post-Conditions: - Initial State of the Chess Game
Gome

Exceptions : None

3 Activity Diagram:

we will create the Activity Diagram
for the "mave a chess piece" use Case,
because it is the most important functionality
in the chess Game

