# Requirements

## Introduction:

* TicTakToe is a simple game which involves filing up a 3 by 3 grid with X’s and O’s.The player who gets three X’s or three O’s in a particular row,column or diagonal first wins.It is basically a two player game.
* I choose this topic because it gives me an opportunity to implement and understand multiple C programming concepts.

Benefits:

* Good sportsmanship
* Development of coordination
* Prepares for more complex game
* Concentration

Explaination:

* The game starts with giving you the game board):
* Player1 means you play using 'X'.
* Player2 means you play using 'O'.
* The game ends when:
* Player1 wins
* Player2 wins
* Game draw

Who:

* Anyone can play this game.

What:

* This game is for recreational purposes.

When:

* This game can be played whenever you are feeling bored or want to figure out ways, outcomes and situations of this game

Where:

* TicTacToe game is available in various websites and applications.

Requirements:

High level requirements:

|  |  |
| --- | --- |
| Id | Description |
| H\_1 | User shall be able to choose 'X' to play |
| H\_2 | User shall be able to choose 'O' to play |
| H\_3 | User shall lose |
| H\_4 | User shall win |
| H\_5 | User shall end up in a draw situation |

Low level requirements:

|  |  |
| --- | --- |
| Id | Description |
| L\_1 | Player1 play with ‘X’ |
| L\_2 | Player2 play with ‘O’ |
| L\_3 | If the player1 gets 3 X’s in vertical,horizontal or diagonal row, he'll win. |
| L\_4 | If the player2 gets 3 O’s in vertical,horizontal or diagonal row, he'll win. |
| L\_5 | If 9 moves have been completed and neither the player1 nor the player2 has won, it'll end up in a draw. |