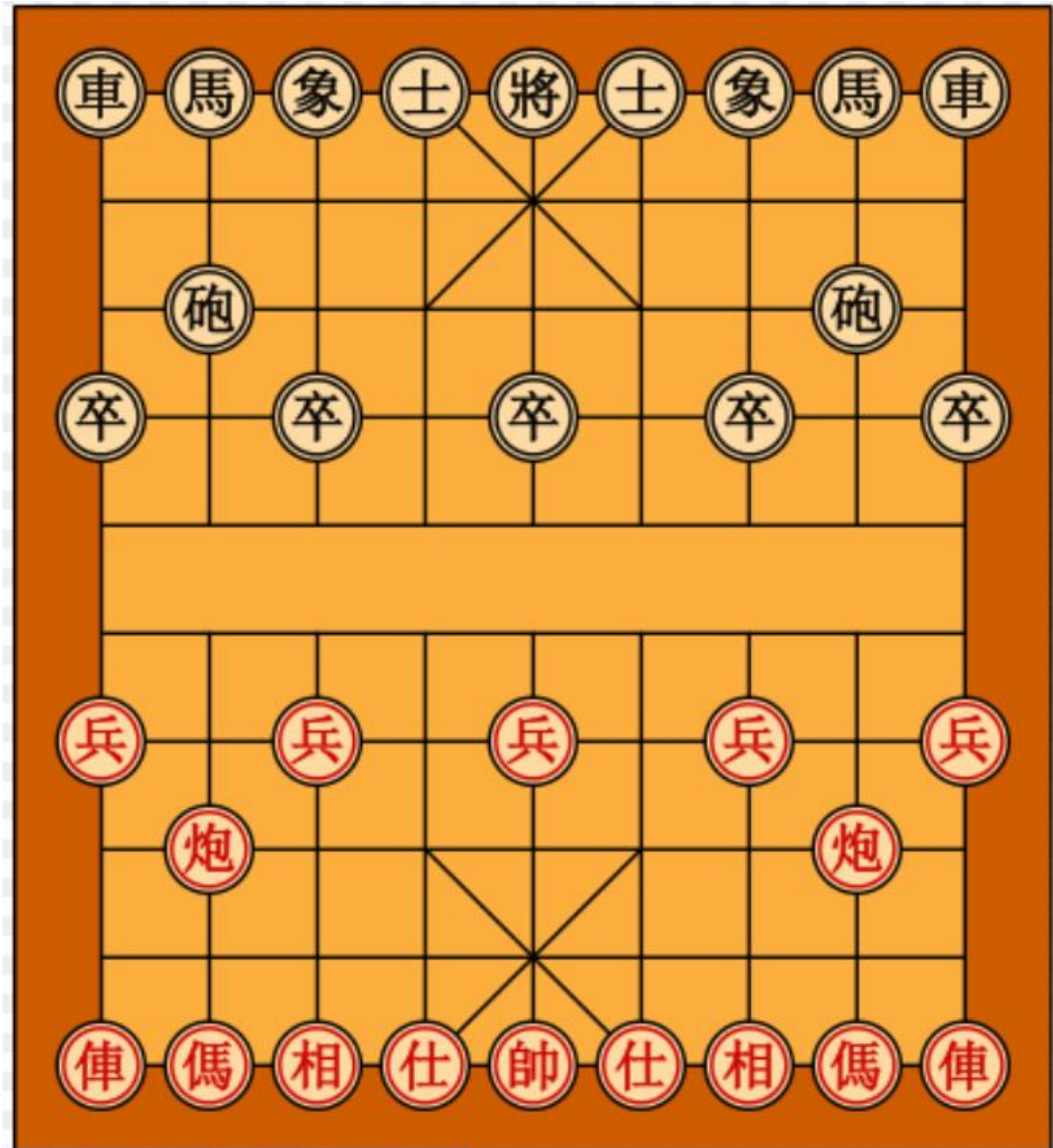# Team Project Conceptual Design

Team Members: Rui Ma(ruim2), Haobin Tan(haobint), Siqiao Fu(siqiaof), Jiahen Zhu(jiahenz)

Product Name: Xiangqi (Chinese Chess)

One-paragraph Description: Xiangqi or Chinese chess, is a strategy board game for two players. The game represents a battle between two armies, with the object of capturing the enemy's general (king) to win the game.

Product Identification:

What are the basic functions of the product?

The product should be able to interact with player for placing the chess within the rules, and correctly display the board and chess, and notice the player once a player win the game. After finish one game, the player could choose to start another game or quit.

1. What are the special features of the product?

Add sound and visual effects when player place a chess, add a timer for count the player's time left, add a retract button to take back moves.

2. What are the performance targets?

Complete a product that is able to provide players instructions to complete a Xiangqi game and add appropriate effects so it looks nice.
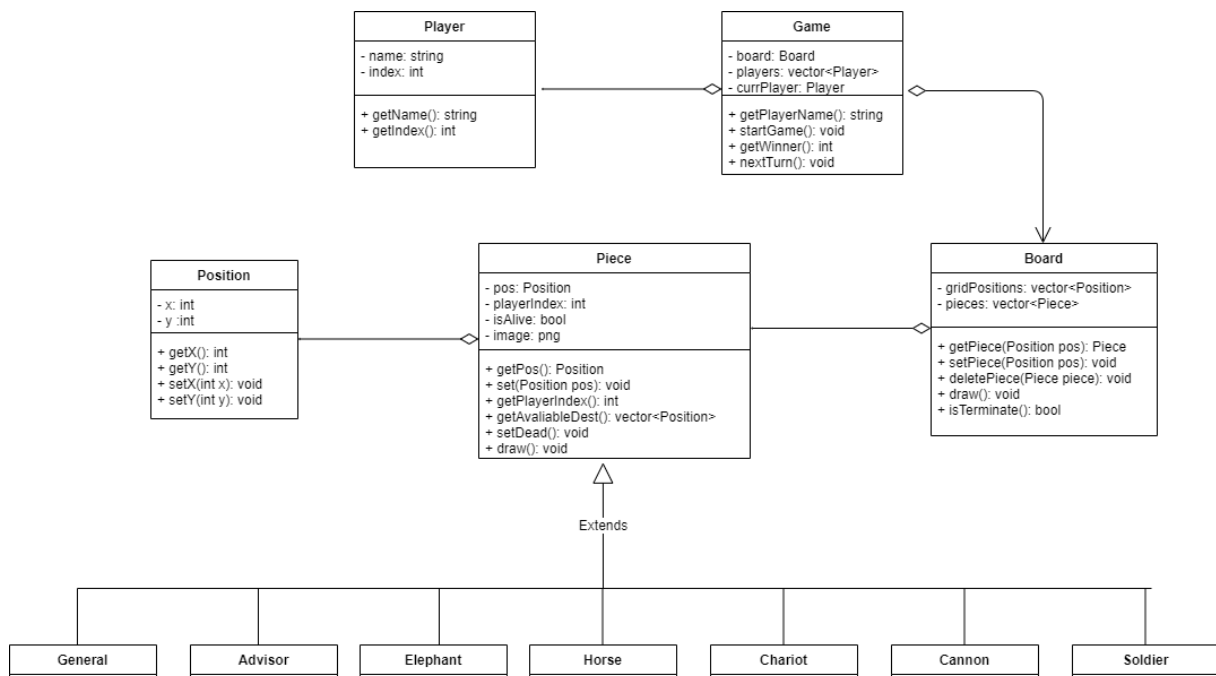
Market Identification:

1. What is the target user group? & How large is the user group?

Chinese chess is a type of chess that originated in China and has a very long history. Because it is simple and interesting, Chinese chess has far more players in China than Go. It is the most popular chess game in China and has spread to more than a dozen countries and regions. We believe that out Chinese chess software has at least 1 billion potential users, covering all age groups.

2. What are the competing products?

Due to the popularity of Chinese chess, there are already many chess software on the Internet, some of which are even owned by well-known companies. For example, the famous Chinese company Tencent has developed chess software for pc, web page and smart-phones.

System Design:

1. What are the major functional components in the product?

Player, Game, Board, Piece and different kinds of pieces.

2. How should the functional components be assembled togther?

Design uniform API for each part and commicate more.

3. Task assignment

Component	In charge
Game, Board	Rui Ma(ruim2)
Player, Position, Piece	Haobin Tan(haobint)
General, Advisor, Elephant, Horse	Siqiao Fu(siqiaof)
Chariot, Cannon, Soldier	Jiahen Zhu(jiahenz)