

Requirement Report

Chinese Chess

Team3

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Content

Introductions & Rules

System Structure

Software Requirement

R1 Main menu(start game)

R2 Local game

R3 Online game

R4 Records

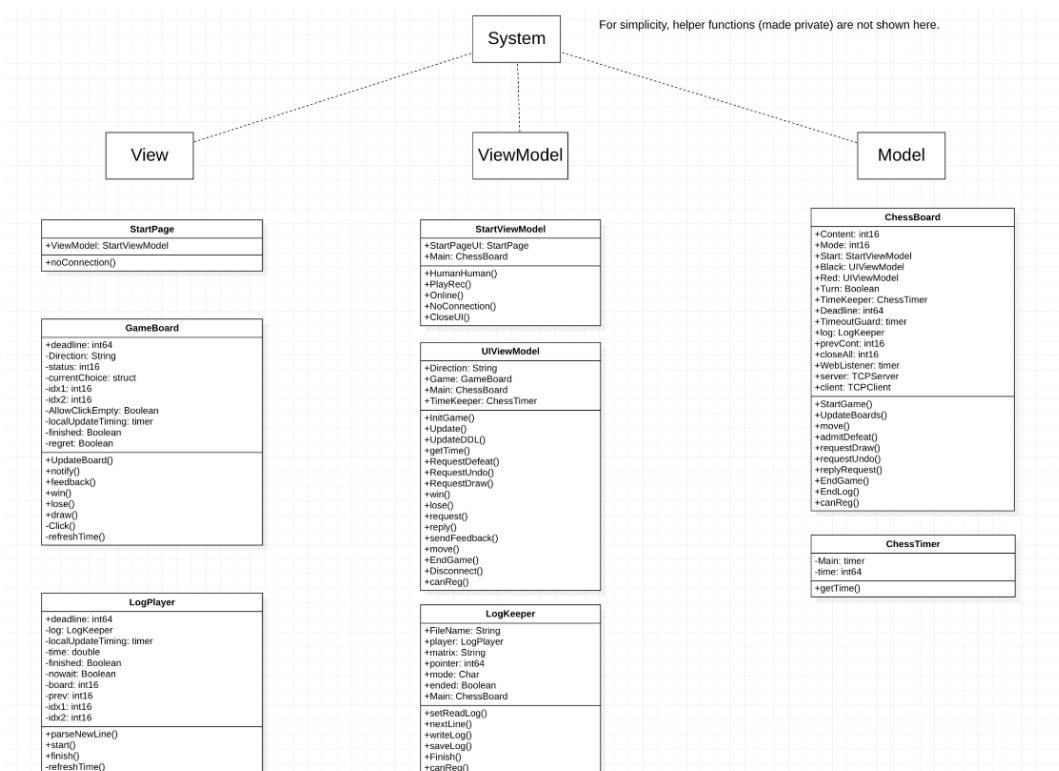
Introductions & Rules

This is an app which user can play Chinese chess locally or online on.

Basic knowledge of Chinese chess:

1. Pieces: There are 7 types: King, Advisor, Elephant, Rook, Cannon, Horse, and Pawn.
2. Rules: Pieces can move and capture according to their individual ability and restriction along the lines including the “Riverbanks”. It is noteworthy that it has some limitations such as King, Advisors must move inside their own Palaces, Horses and Elephants can be blocked (from moving), two King cannot “face” each other (stands in the same column without any piece between). Moreover, 3-FOLK rules need to be followed: when a position repeated 3 time (3 folks) the game will be terminated.

System Structure

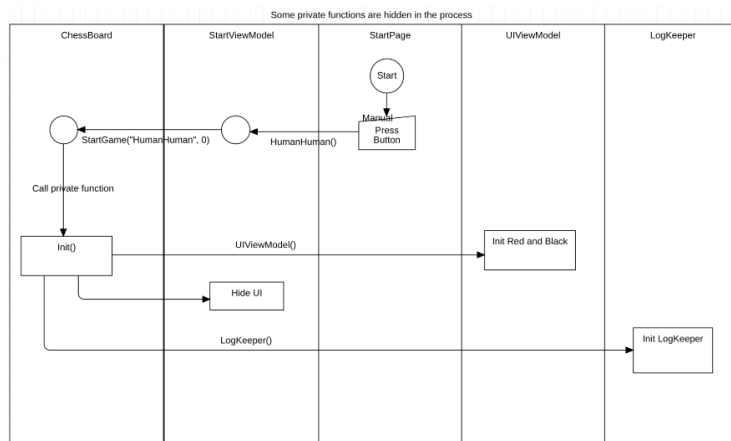


Software Requirement

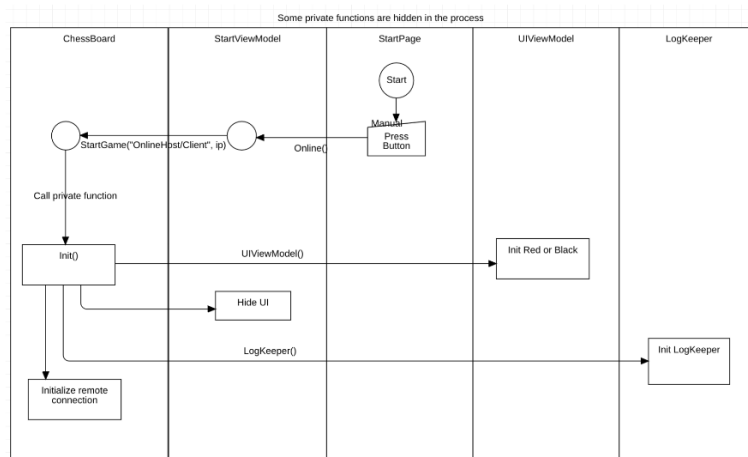
R1 Main menu(start game)

R1.1: There is a main menu GUI after entering the game.

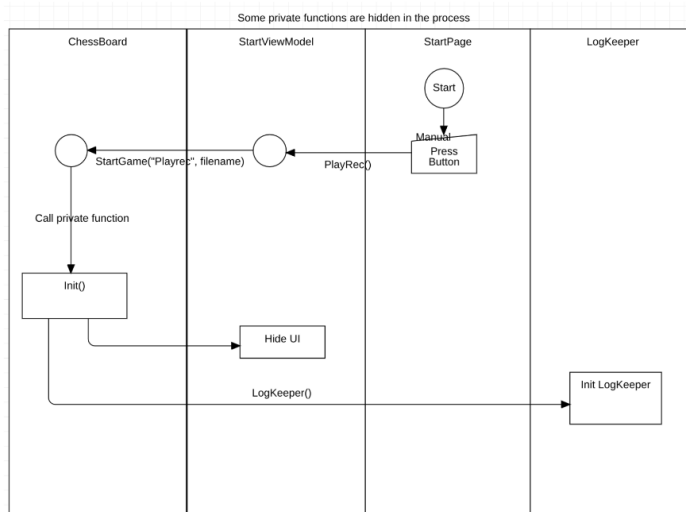
R1.2: User can select the local game on the main menu.



R1.3: User can select the online game on the main menu.



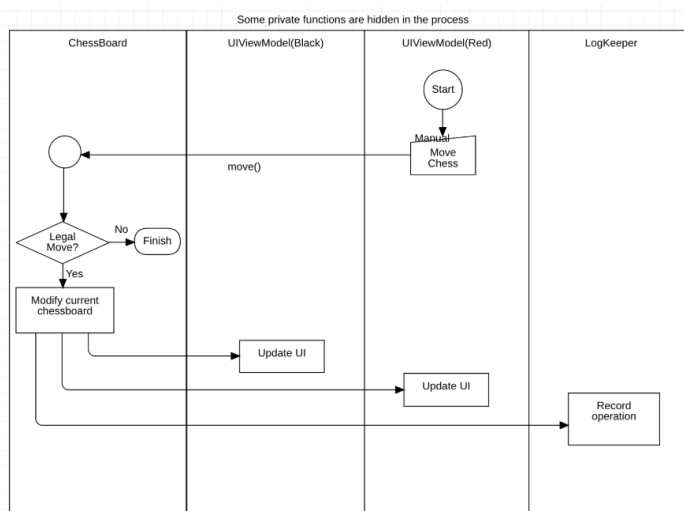
R1.4: User can select to watch recordings on the main menu.



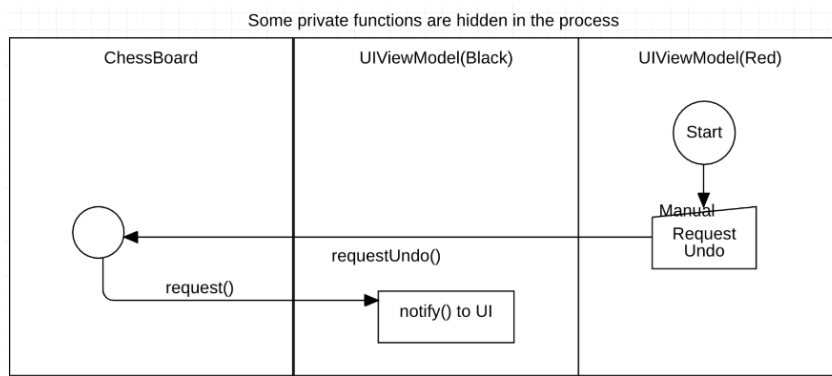
R2 Local game

R2.1: There are 2 gaming GUIs which contain chess board, chess pieces, some functional buttons and left time. The components on the GUIs should be displayed properly.

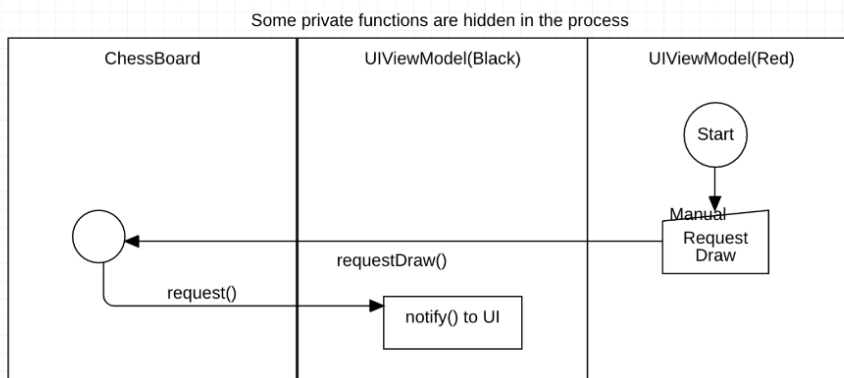
R2.2: User can move chess.



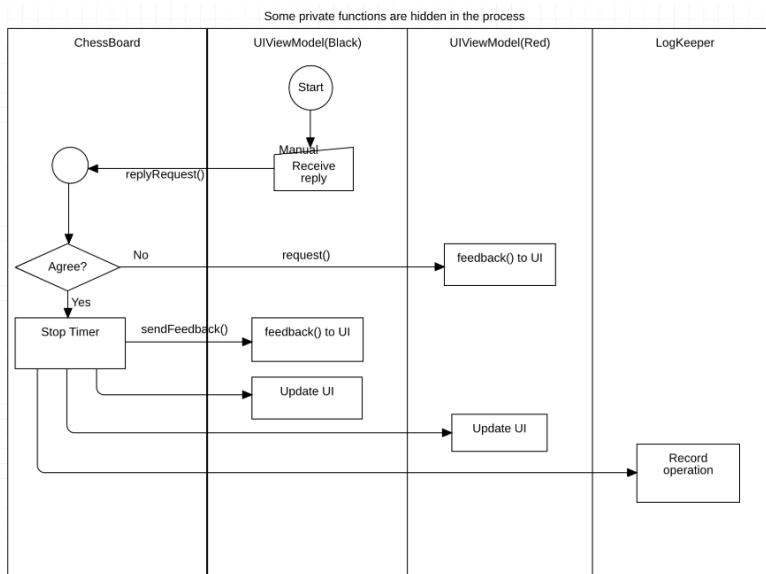
R2.3: User can request for undo.



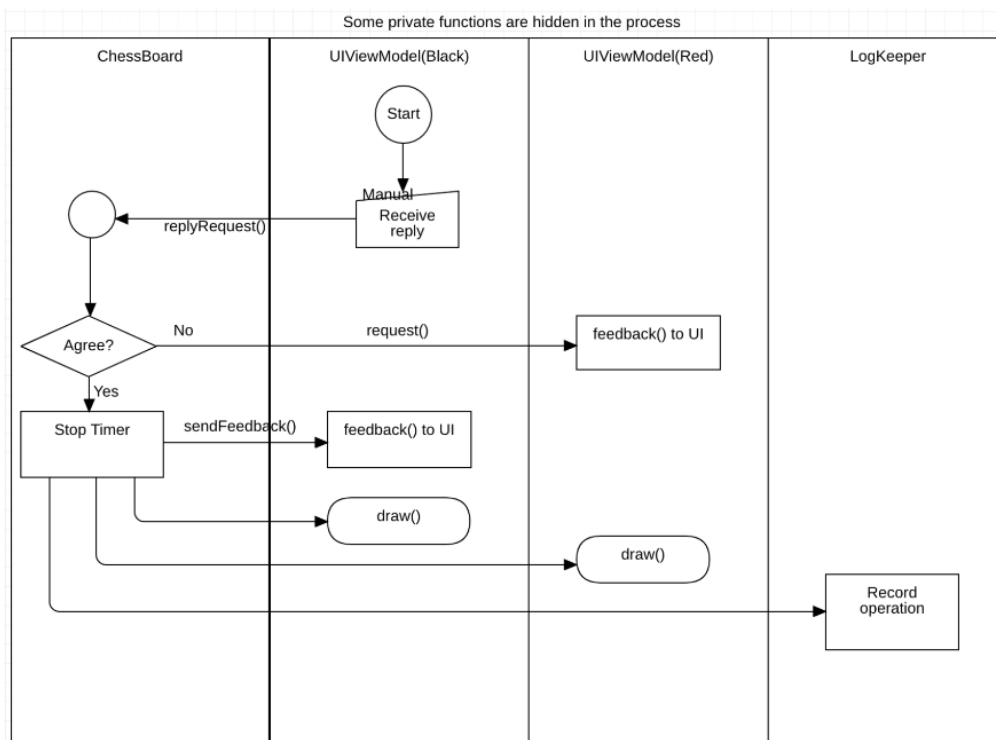
R2.4: User can request for draw.



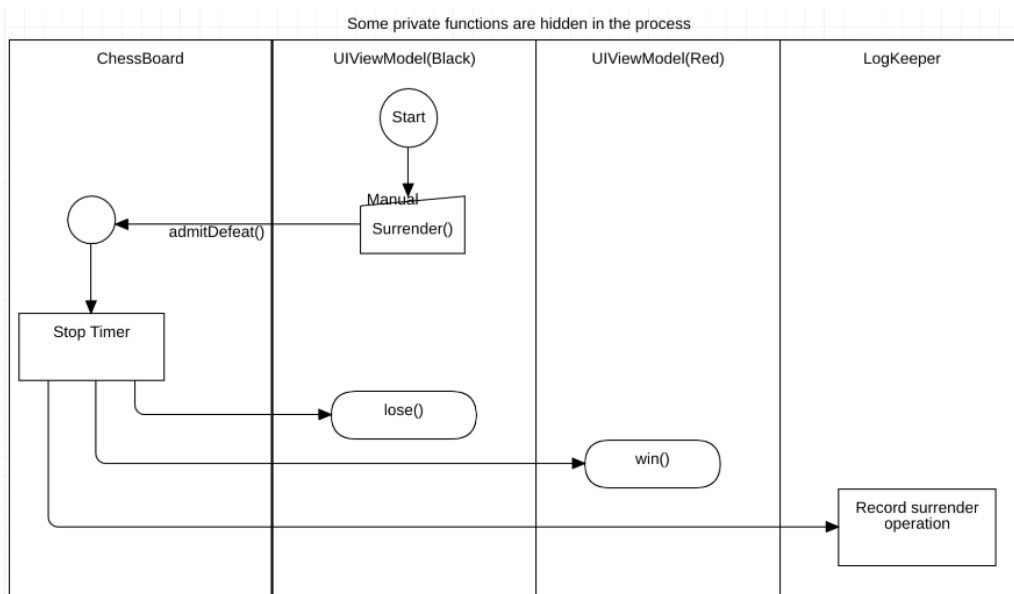
R2.5: User can agree/deny undo.



R2.6: User can agree/deny draw.



R2.7: User can surrender.



R2.8: In each turn, time is limited.

R2.9: The system should be able to determine whether the player wins or whether the game is a draw.

R2.10: The two players can't move at the same time.

R2.11: The 2 GUIs for two players should be updated in each turn.

R2.12: The whole game should obey the basic rules of Chinese chess.

R3 Online game

Note: R3 should satisfy all the requirements in R2.

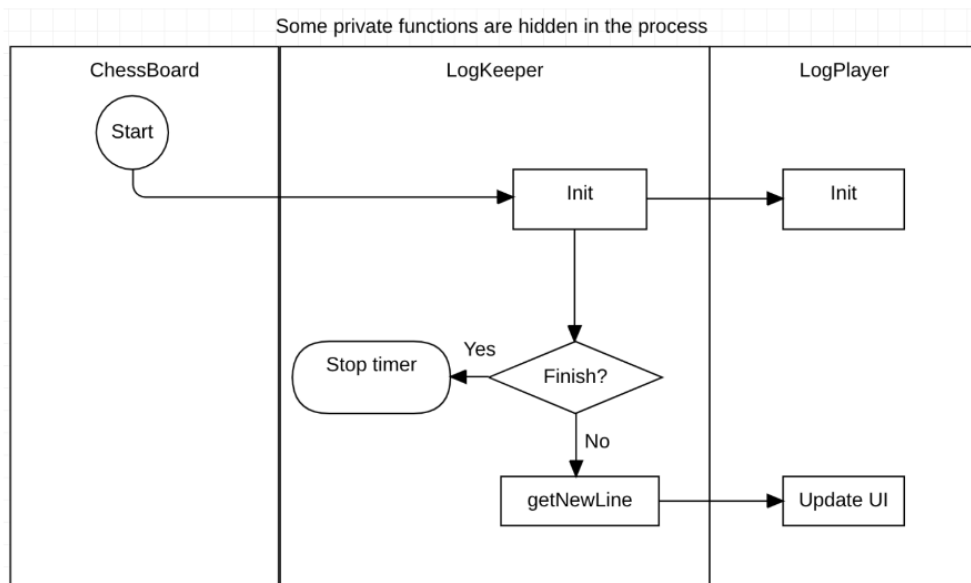
R3.1: There are host and remote client. There are 2 GUIs for them, one is local and another is remote.

R3.2: The host and remote client can play the game together under the LAN.

R4 Records

R4.1: User can watch each game's recording.

R4.2: The game's recording can be displayed automatically.



R4.3: The user can set the speed of recordings.