COMP1110 Assignment2

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Job distribution

Name	Contribution
Ruimin Chu	Task 2, Task 5, Task 6, Task 8, Task 9(help) Task 10
Zhoujing Yang	Task 4, Task 7, Task 9(main)
Xing Meng	Task 3

Design Approach

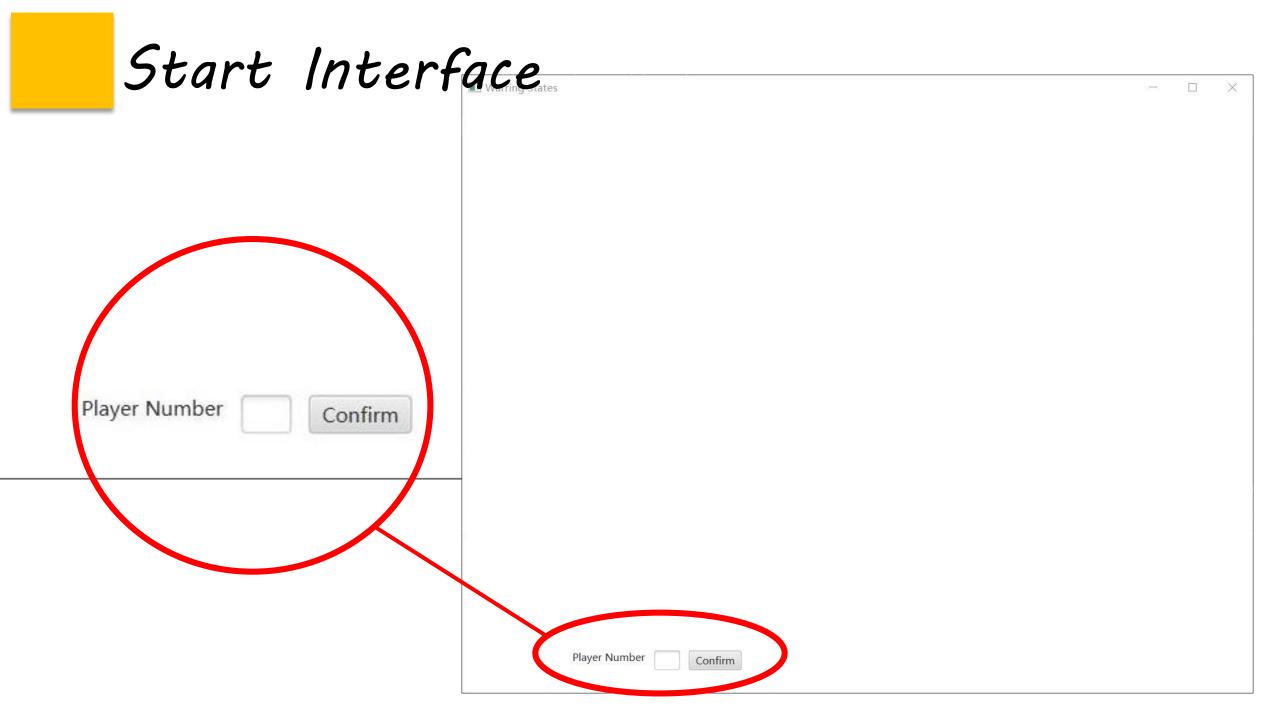
Design Approach

- The starting interface -- ask for how many players
 & store the number of players
- · Generate a board store the string of setup
- Generate a base score board to show the cards and flags each player is holding

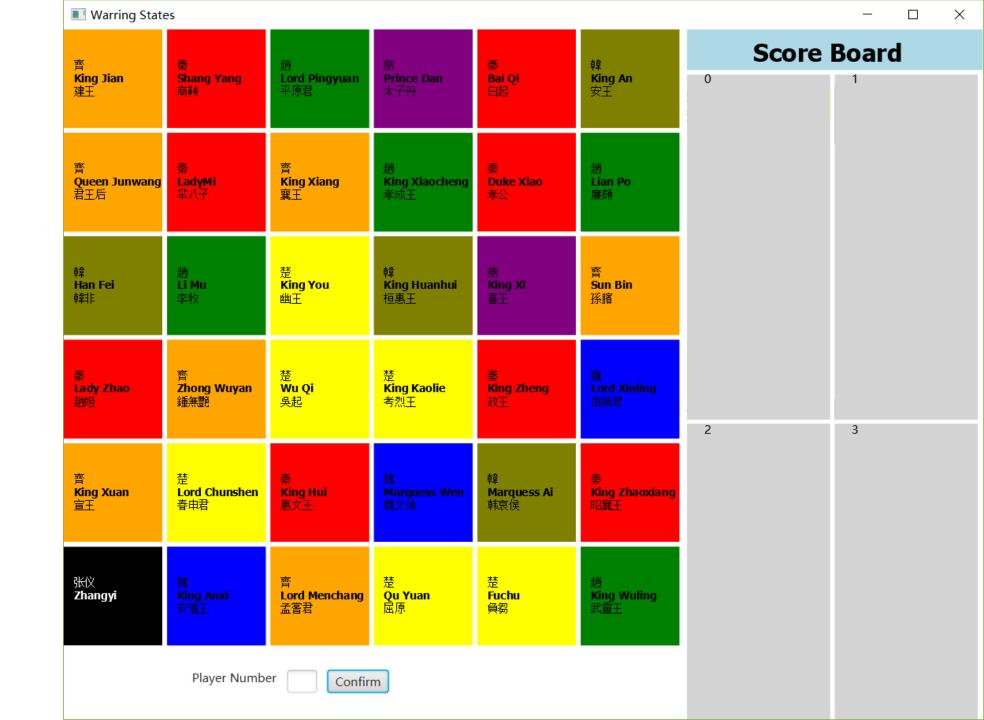
- Player x can click on the target position that he/she wants Zhang Yi to move
 to
- Use setOnMouseClicked to get the coordinate of a mouseclick
- Find that mouseclick is on which card
- Test if it is a valid move, using is MoveLegal (task 5)
- If it is not a valid move, pop up an alert message, saying "invalid move"

- If it is a valid move, add that location character to moveSequence, update placement which will be the status of the board after move, clear the old board and use makeplacement to create a new board. Then add the card(s) to supporters and determine which player controls which flag in score board.
- Check if there is any valid move on the board· If no, pop up the game end text and announce the winner· If yes, continue the game·

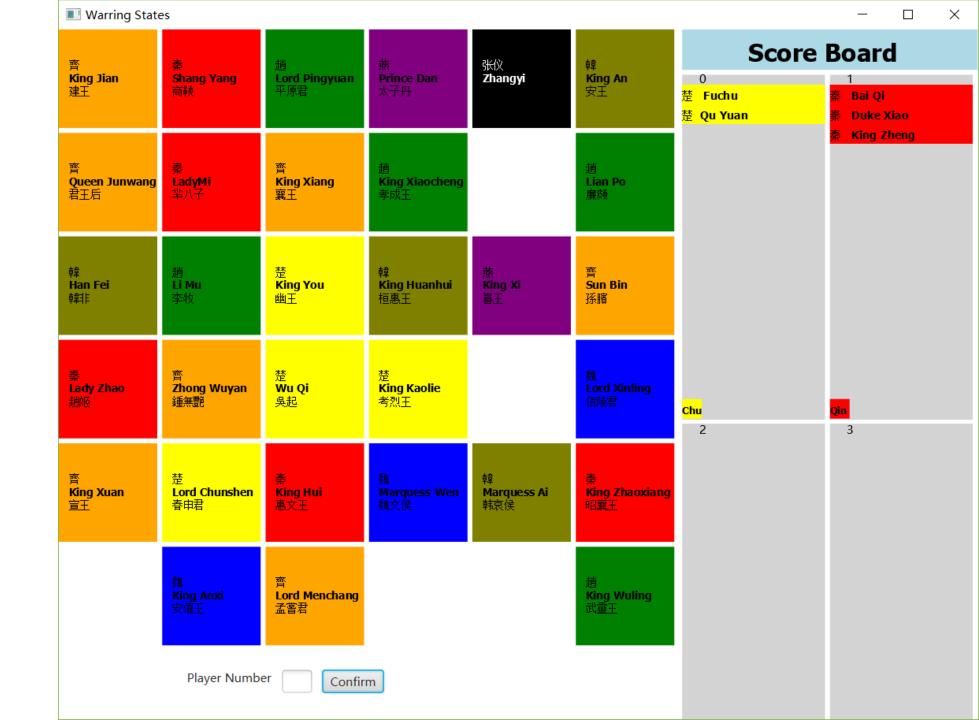
Demonstration of Game



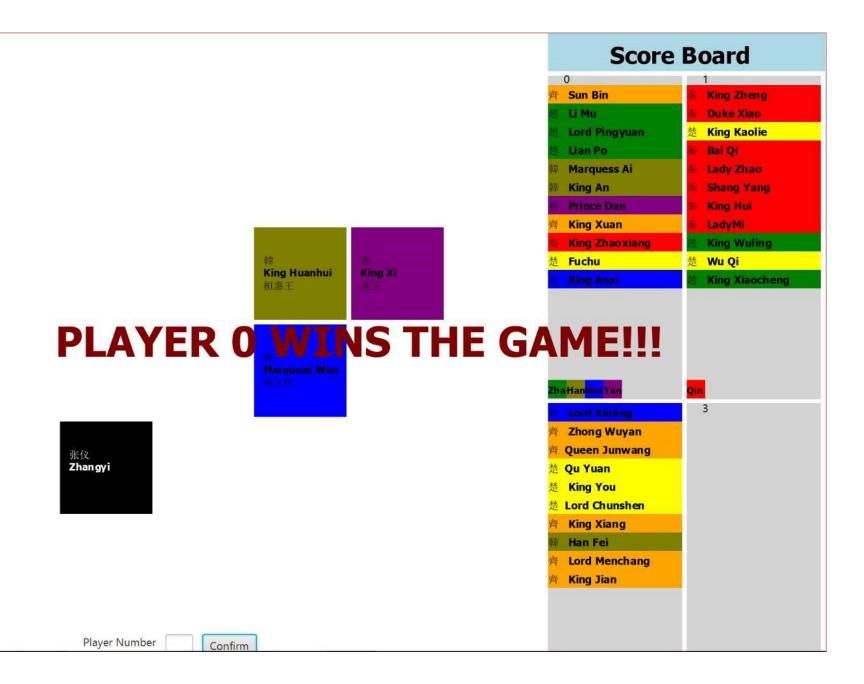
After enter the Number of player



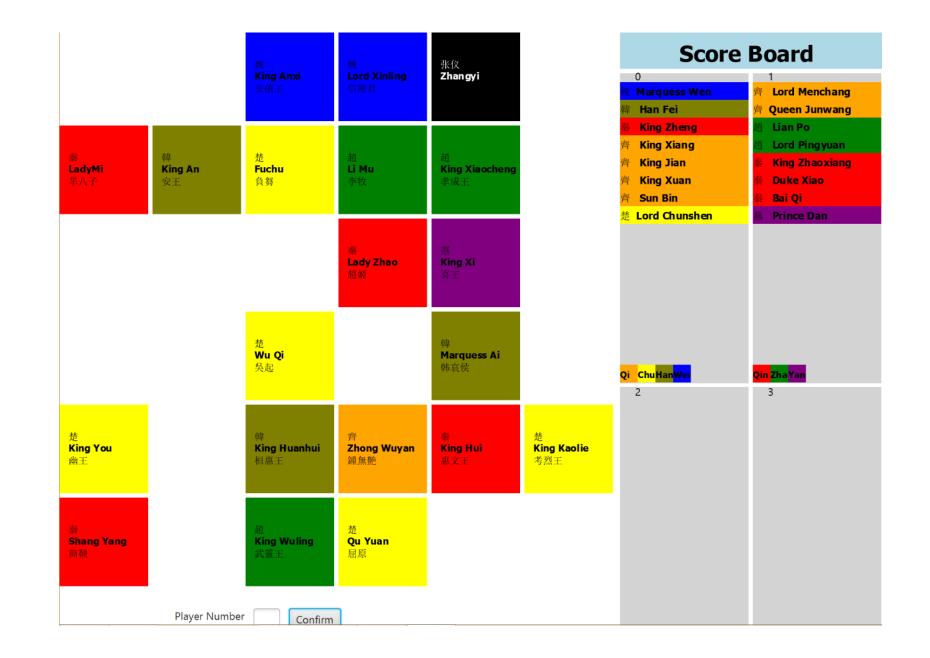
Then start game by clicking other blocks



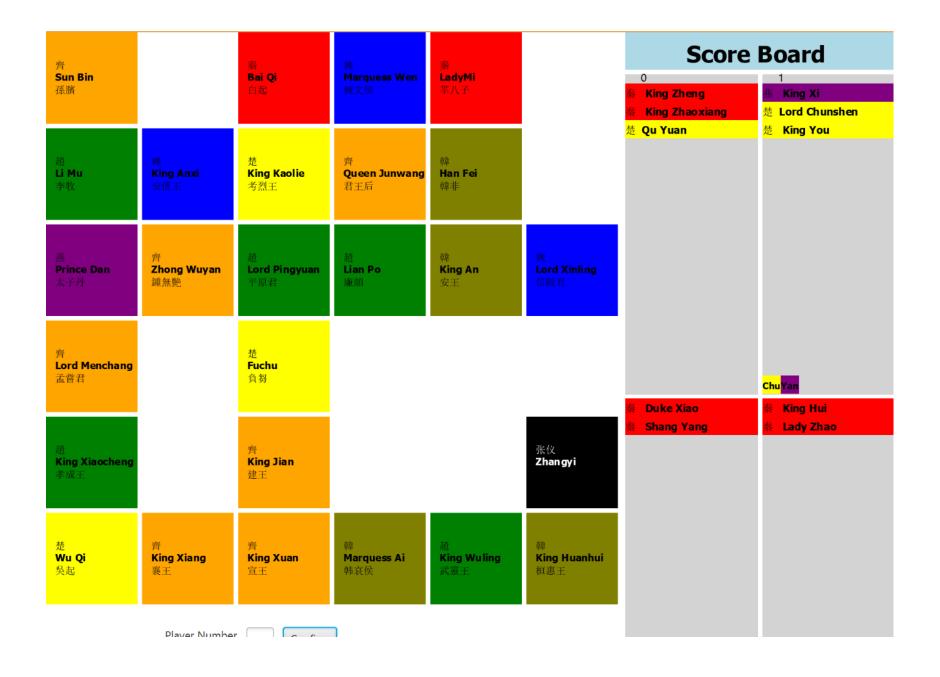
Congratulation for winner!



A Twoplayer game



A fourplayer game



Solved Problems

Solved Problems

Passed all the tests for task 5 (isMoveLegal) but the function wasn't actually perfect?

--I finished task 5 based on its criteria and it passed all the tests.

But I ignored one problem: if the locationChar is ZhangYi's current location? That's definitely not a valid move: I found that problem when I was trying to use isMovelegal in my method to find if the game is end. Since ZhangYi's current location character can 'sneakily' pass the test of valid move, the game will never end until I directly ban it from returning a 'True'.

Interesting Aspects **Score Board** 楚 King Jian Qu Yuan 屈原 建王 King Zhaoxiang King Xiaocheng King You Lady Zhao King Zheng King Xuan Warning 宣王 Warn for an invalid King Hui Invalid move! Lian Po Marquess 廉頗 韩哀侯 move! OK 张仪 Li Mu Lord Pingyuan Lord Chunshen **Prince Dan Queen Junwang** Zhangyi 李牧 君王后 春申君 Chu Sun Bin **Lord Menchang Shang Yang** LadyMi Fuchu King Wuling King Huanhui Bai Qi 桓惠王 負芻 King Kaolie **King Xiang** King An King Xi **Duke Xiao** Han Fei 安王 考烈王 孝公 襄王 韓非 Player Number Confirm

Question Time!