

# League of Legends Overlay Assistant Project report

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#### **Project Progress**

Champion Ban/Pick Tool



In Game Item Build Tool



Mini-map detection tool





#### **Function**

 About detecting mini-map to record the location of enemy disappear last time and can give a early warning for enemies' gank.(demo will be in the last)

#### Example:

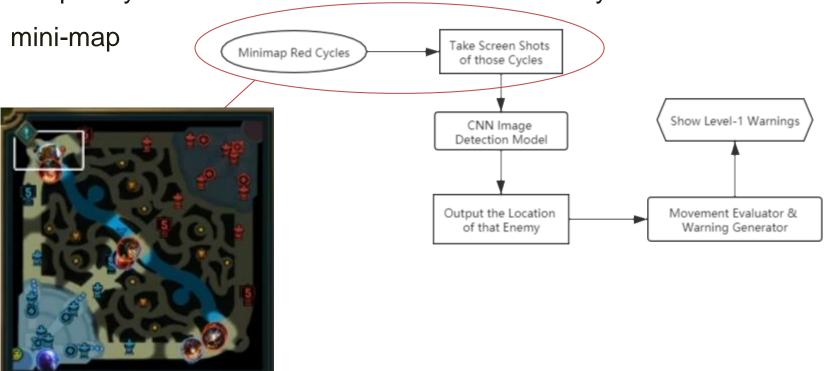






#### Step 1:

Frequently take screen shots and detect the red cycles in the

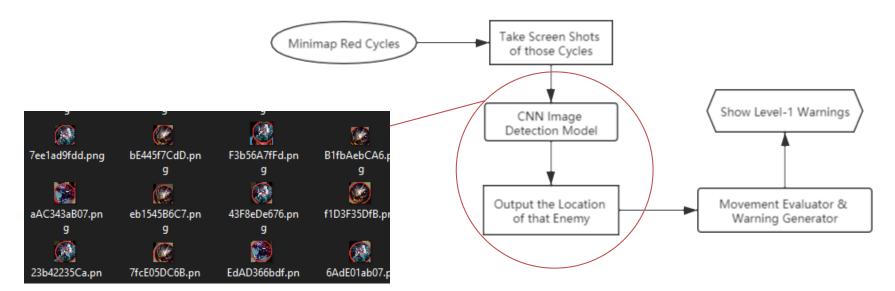






#### Step 2:

Use CNN to detect champion portrait and output the location.

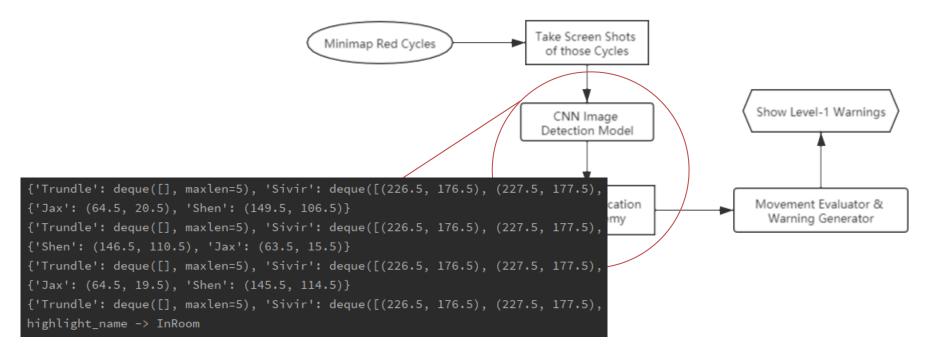






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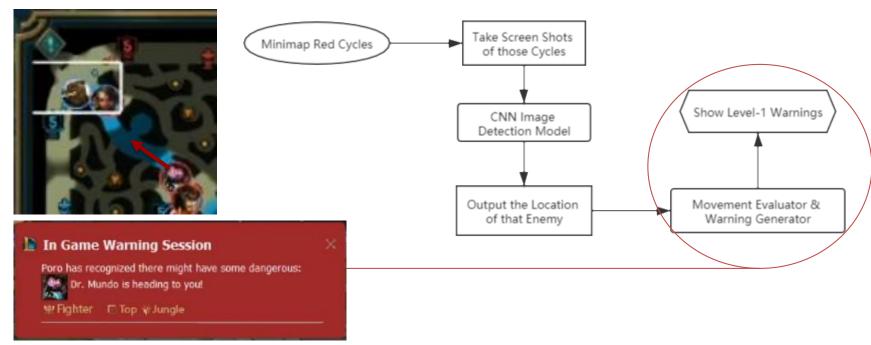






#### Step 3:

Based on the location information, give warning for danger if enemy disappeared for a period and was going ahead to you.







#### **Future Steps (Short-term)**

#### In-Game "My champion's skin" detection

- Get our user's champion identity when they use skins
- Data collection (Finished)
- Model training (In-progress)
- Testing (Undone)







aatrox-blood-moon-pre...



aatrox-blood-moon.png



aatrox-classic.png



aatrox-justicar.png



aatrox-mecha.png







aatrox-victorious.png







#### Video record and edit

- Test and debug our app
- Record a full video demo and edit the video

#### **Final Presentation**

- We plan to do our final presentation in a video to avoid possible network or electronic issue on that day
- Finish PPT and record every member's presentation

#### **EDD**

 Update our EDD, need to add contents about function 2 and 3 that we finished after mid-term.





## Future Steps (Long-term, if have time) Rune Pick Tool

- Data collection and backend logic (Finished)
- Problem unsolved: we cannot detect "my champion" identity before getting into the game because of the randomness of order and dull color in bp stage, but we have to recommend runes for specific champion before the game start

#### **Update Data**

 Keep updating data like champion, skin, win rate, game record..., because this game updates more than twice a month, data changes quickly.





#### **Demo**





### Thank you!

