

### **X** Summary

Using the HTC Vive virtual reality headset, C#, and the Unity game engine we have created a fully functional chess game with the capability for offline Al matches.



### MVP Features List

- Offline Al
- Valid move check
- Game Menu
- Park Environment

# **Specifications**

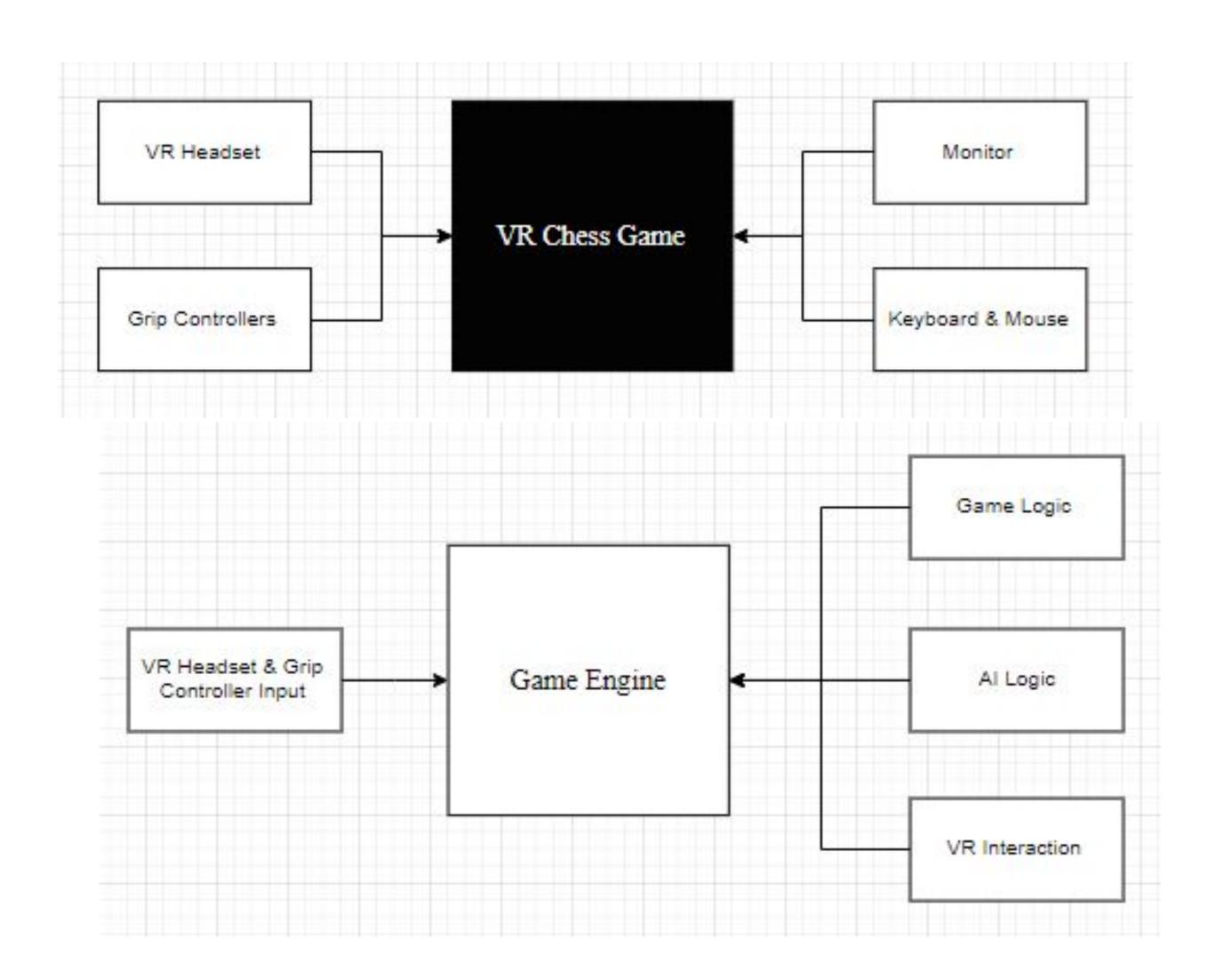
- HTC Vive VR Headset
- 64 bit Windows 10
- Intel i5-9600K CPU
- Nvidia Geforce 1060 6Gb
- 16 Gb RAM

# **Budget**

- All software was used at no cost
- Vive headset was lent to us at no cost by UCSIM
- Total cost is \$0

# **Why**

Reviews on Steam left by existing Virtual Reality Chess customers requested a game that had an offline Al opponent, and this is what we have created to fulfill that request.



#### Standards

- FIDE Universal Chess Rules
- Friction-less User Experience

#### **©** Obstacles

Limited collaboration due to COVID-19 outbreak

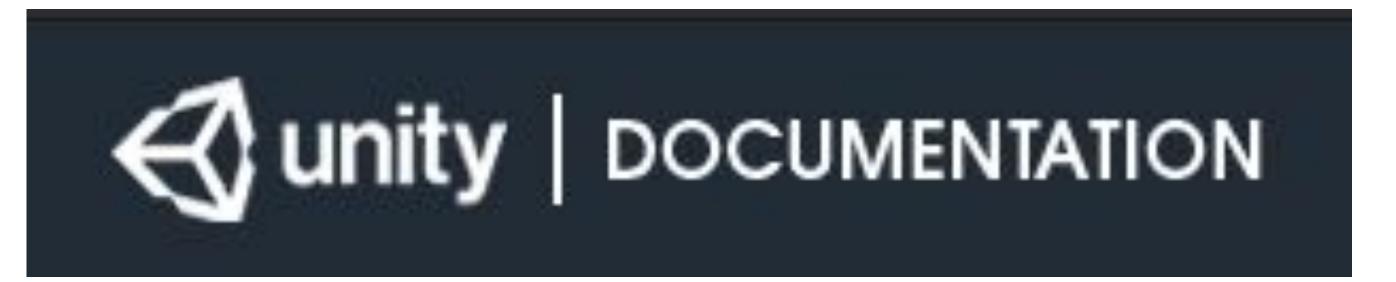
## **Future Steps**

Piece.cs

Queen.cs

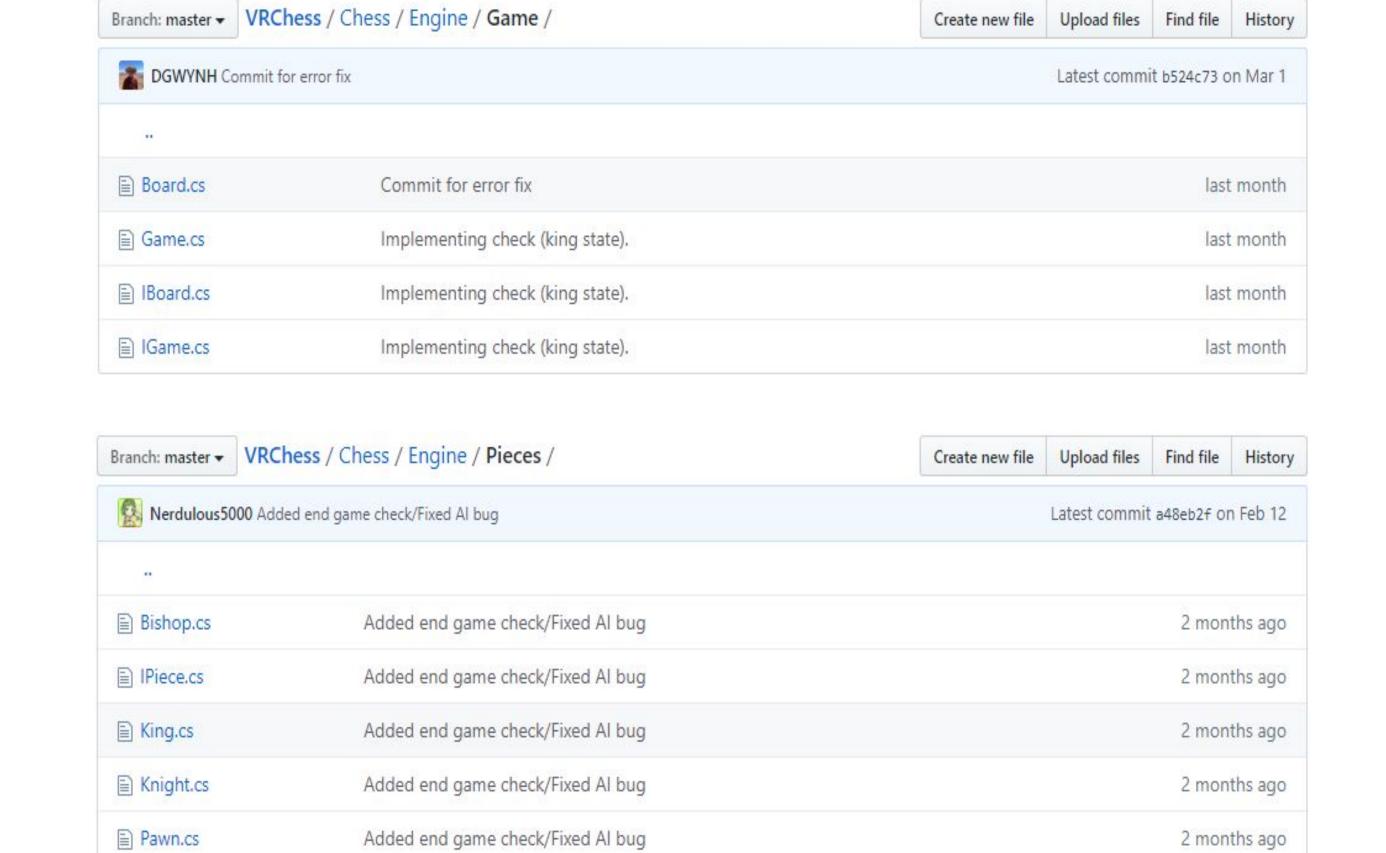
Rook.cs

In the initial design, we planned to create a optional timer for players along with many other additional features. Now that we have our Minimal Viable Product, we can start to develop all the other features we ranked lower on the priority list.





https://github.com/DGWYNH/VRChess



2 months ago

2 months ago

2 months ago

Added end game check/Fixed Al bug

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