

Design Document - Group036

Group Member :

Jialun Chen, Wise Chua, Xinyuan Wang, Yao Zhou,
York Chen, Yuezheuxan Zhu, Ziqian Gao

Group Members' Contributions

Jialun Chen - Write docstring for Entity and Usecase & Write Body Part of Login & Write test for DeckManager

Wise Chua - change command line to GUI & implement updates of GUI for each played hand & Implement Readfile class for reading card file.

Xinyuan Wang - PVE mode realization, check and fix SOLID and clean architecture, test for readfile, uml diagram.

Yao Zhou - GUI design and implementation, construct the UI class and modifies Controller Class

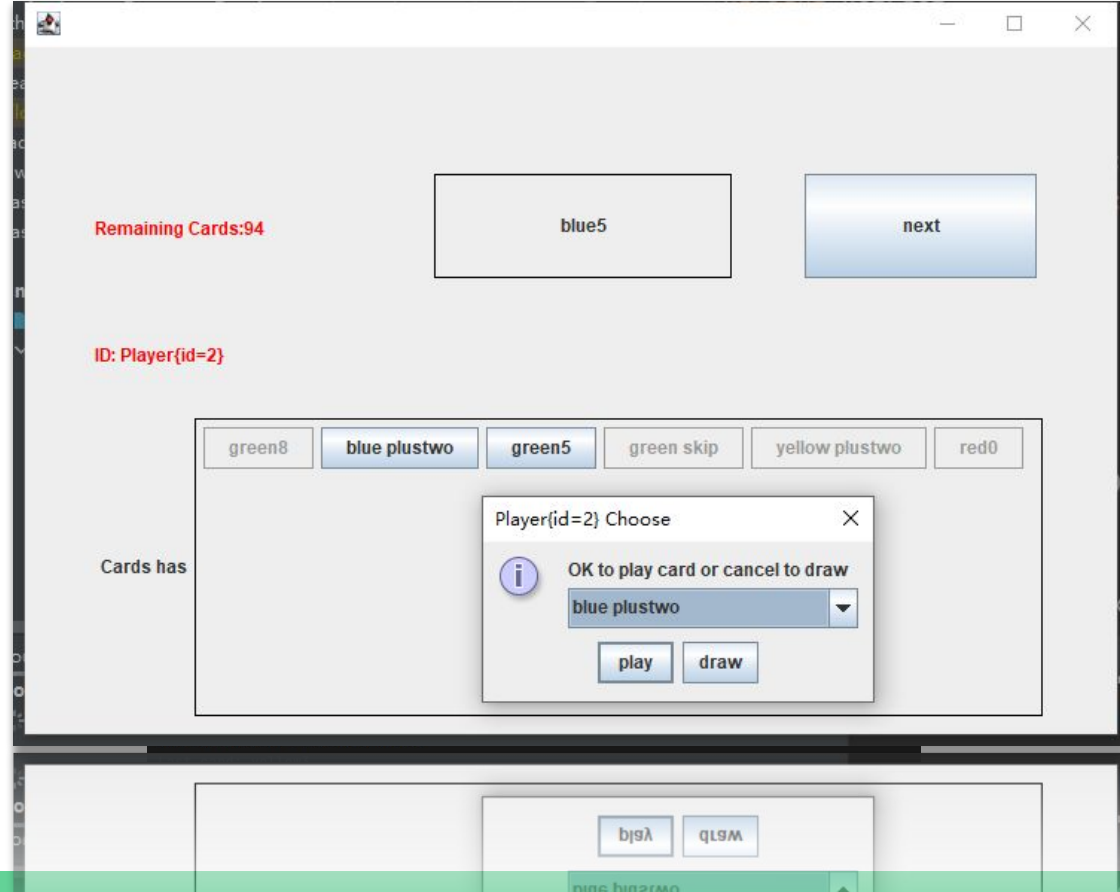
York Chen - Logom System interact with file & Test for Entity & refactoring & code style

Yuezhexuan Zhu - resturcutre the controller & write test for PlayerManager and Player & debugging works

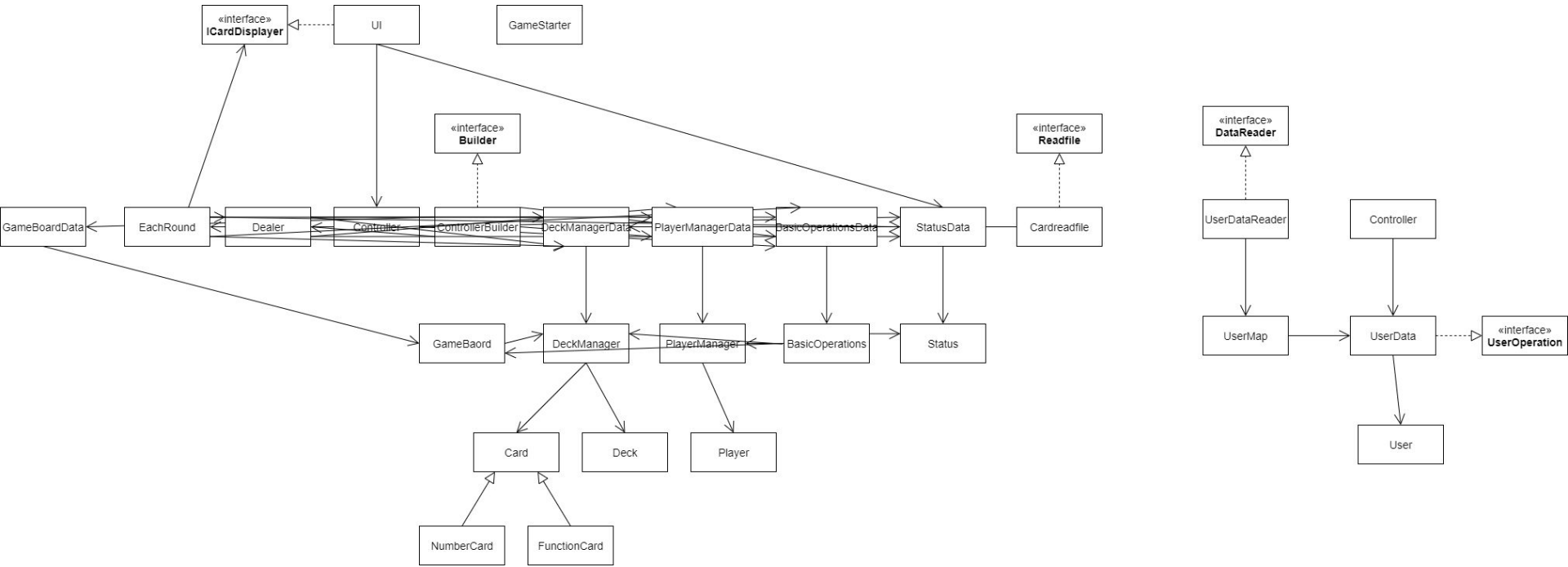
Ziqian Gao - write card test classes, modifies the PVE block, GUI design

Project Specification

- Aspect of Basic Setting
- Aspect of design pattern
- Aspect of GUI



UML



Major Design Decisions:

- Reduce the size of controller
- Choice of Log in System
- Add function card
- The UI
- Design Pattern

how your project adheres to Clean Architecture

- clearly separate classes into four layers
- follow layer-by-layer rule
- dependency injection pattern

how your project is consistent with the SOLID

- Login
- UI
- main

which packaging strategies you considered

Login --Layers strategy

Uno--Layers strategy

Design Patterns

Implemented:

- Player Class - Iterator
- Controller Class - Builder
- Dependency Injection - UI

Thinking to implement:

- Strategy Pattern for Additional Computer Game Mode
- Facade for our code to ensure SOLID principle

Other Methods:

- Serialization for our login user information

progress report

- open questions your group is struggling with (questions to TA)
- what has worked well so far with your design (reflection)
- **a summary of what each group member has been working on and plans to work on next**
- **Future TODO**