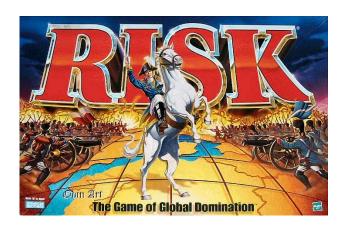
# WORLD CONQUEST SPRINT II DESIGN DOCUMET

A Design Document for the Game 'World Conquest' for Raffle Games



FEBRUARY 8, 2024
TEAM ONE
University of Sussex

# Contents

Sprint II	2
Design Objectives	
UI Design	
Class table	
UML Diagrams	
Skeleton Code	
Conclusion	4
References	4

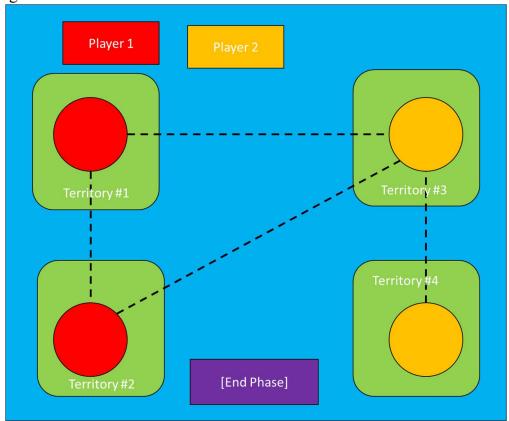
# Sprint II

#### Design Objectives

For this sprint, our implementation aims are:

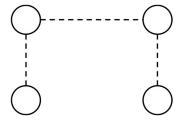
- Be able to deploy troops on a players turn
- Attack implementation with dice
- A total of 4 territories
- 2 players
- 40 troops on the board at start of game
- Territories can be conquered by another player (colour of node will change to opponent player)
- Player 1 is no longer the default winner (extension from sprint I
- Territoesi display their name
- Mouse selection of

## UI Design

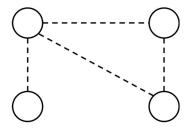


There are a variety of node connections that can be chosen when creating the map – this was one of a variety that I thought would be good for this sprint, but there is also:

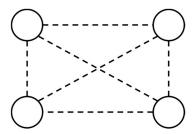
Map #1: Nodes have a connection 1 or 2 – it is a simpler implementation and it allows



Map #2: Nodes have a connection of 1, 2 or 3 – This graph layout has a lobsided design where it is not symmetrical - which gives an advantage or disadvantage to players depending on what territories they hold



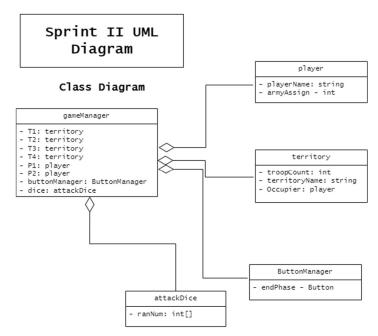
Map #3 – All nodes have a connection of 3 – this is the most even graph layout – each node has the name number of connections so the difference between one territory or another is virtually negligible.



#### Class table

Class	Class Name	Attributes	Comments
No.	player	playerName: string	Player class, contains
	pray or	armyAssign - int	the player information as in Sprint I
2	territory	<ul><li>troopCount: int</li><li>terrirotyName: string</li><li>Occupier: player</li></ul>	Terrorizes are able to occupied by different players depending on the outcome of player attacks
3	ButtonManager	End_phase: Button	The Button should only end the phases that the player is in (such as in the event a player wants to end their attack phase prematurely)
4	GameManager	<ul> <li>T1: territory</li> <li>T2: territory</li> <li>T3: territory</li> <li>T4: territory</li> <li>P1: player</li> <li>P2 player</li> <li>buttonManager: ButtonManager</li> <li>dice: attackDice</li> </ul>	The gameManager holds all the game object information as it is an implementation of the classes above
5	attackDice	• ranNum: int[]	The Dice class should determine if the player has won or lose a battle by return the outcome of random numbers generated

## **UML** Diagrams



### Skeleton Code

# Conclusion

The conclusion of this sprint to come out with a prototype with something akin

## References

Parker Brothers, 1993. RISK - The World Conquest Game, Beverly: Tonka Corporation.