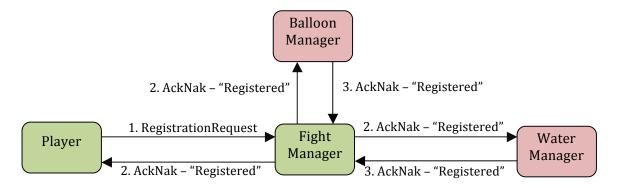
HW5 - Reliable Communication

Communication Protocols

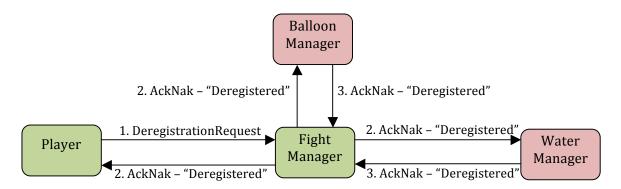
This documents contains some diagrams of implemented protocols. Following figures illustrate how defined protocols work.

- ✓ Each box indicates each objects exists in the game (i.e. Player, Fight Manager).
- ✓ Each row shows a message sent and its label indicates the type of that message.
- ✓ Numbers in labels show orders of messages sent.
- ✓ Reliable communication used in objects colored in green.
- ✓ Red objects are newly added to each protocol.

1. Registration



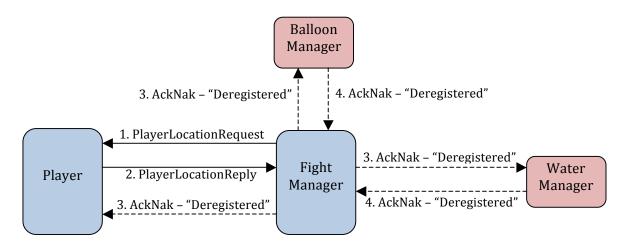
2. Deregistration



3. Player's Location

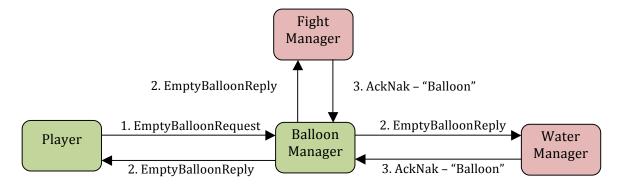
Player will be deregistered:

- ✓ If the movement speed of player is greater than 15 per second
- ✓ If the player replies later than 10 s



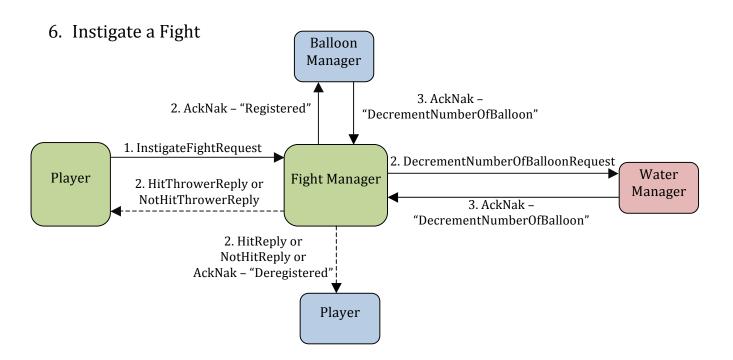
4. An Empty Balloon Request

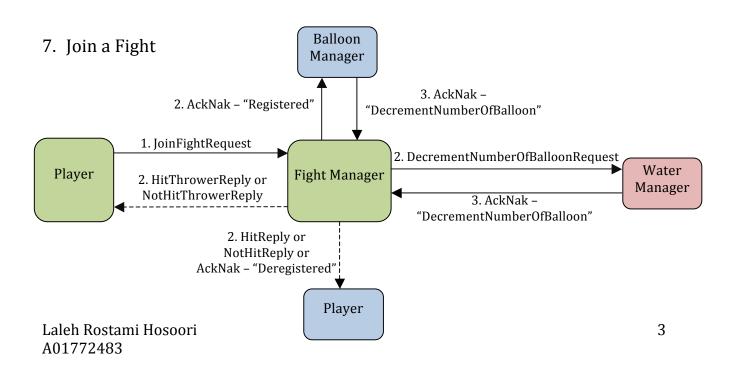
- ✓ Each player is allowed to have at most 4 balloons at the same time.
- ü NumberOfFightRequest Message has been deleted.



- 5. Amount Of Water Request
 - ✓ WaterReply Message has been added.
 - ü NumberOfBalloon Message has been deleted.



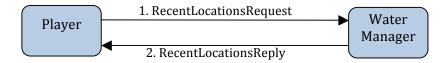




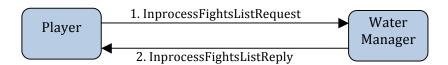
8. Current Player List



9. Player's Most Recent Location



10. In-process Fight List



11. Players of a Specific Fight

