

# Design Document(version2)

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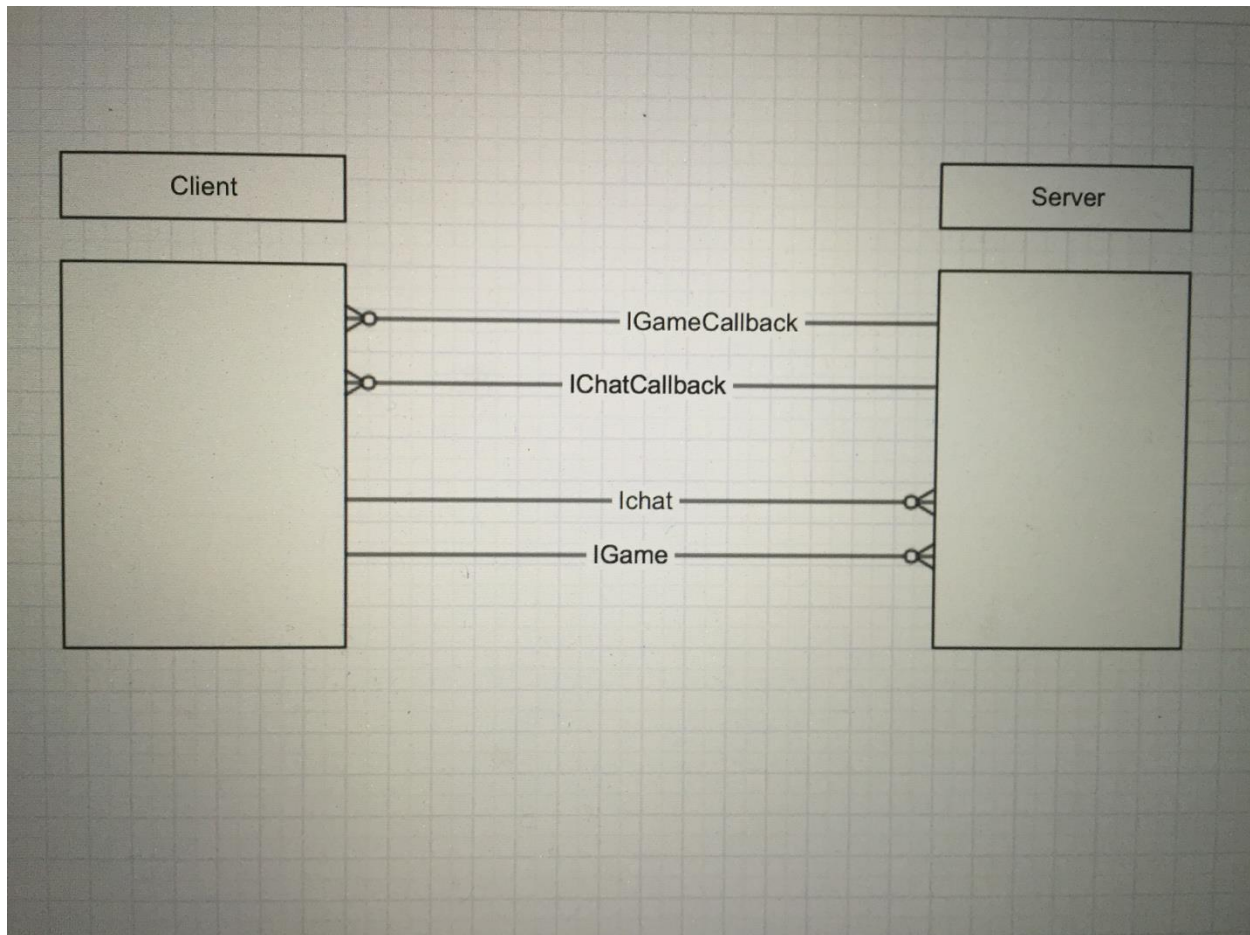
TRIVIA

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# 1. Architecture diagram



## 2. Interface and methods descriptions

### IGame

This interface implements the various functions for the game.

```

/// <summary>
    /// It starts the game after the check is complete. The check of players is done
    here.
    /// </summary>
    [OperationContract]
    void startGame();

    /// <summary>
    /// It sends a question to a player.
    /// </summary>
    /// <returns>The next question to be asked.</returns>
    [OperationContract]
  
```

```
Question getQuestion();
```

```
/// <summary>
/// It sets that a player is ready to start a game.
/// </summary>
/// <param name="playerId">The id of the player.</param>
[OperationContract]
void setReady(int playerId);
```

```
/// <summary>
/// It sends the answer of a player to the server. The check of the answer is
done here.
/// </summary>
/// <param name="playerId">The id of the player that sent the answer.</param>
/// <param name="answer">The id of the answer.</param>
[OperationContract]
void setAnswer(int playerId, int answer);
```

```
/// <summary>
/// It indicates that a player wants to leave the game.
/// </summary>
/// <param name="playerId">The id of the player.</param>
[OperationContract]
void leave(int playerId);
```

```
/// <summary>
/// It indicates that a player wants to leave the game.
/// </summary>
/// <param name="playerId">The id of the player.</param>
[OperationContract]
void restart(int playerId);
```

## IChat

This interface implements the chat.

```
/// <summary>
/// It sends a player's message to the server.
/// </summary>
/// <param name="player_id">The player that send the message.</param>
/// <param name="message">The message that was sent.</param>
void sendMessage(int player_id, string message);
```

## IGameCallback and IChatcallback

These interfaces are implemented in the client and have basic functionality.

```
interface IGameCallback
{
    /// <summary>
    /// It sets the unique id on the client.
    /// </summary>
    [OperationContract(IsOneWay = true)]
    void setId();

    /// <summary>
    /// It notifies the client that the game starts.
    /// </summary>
```

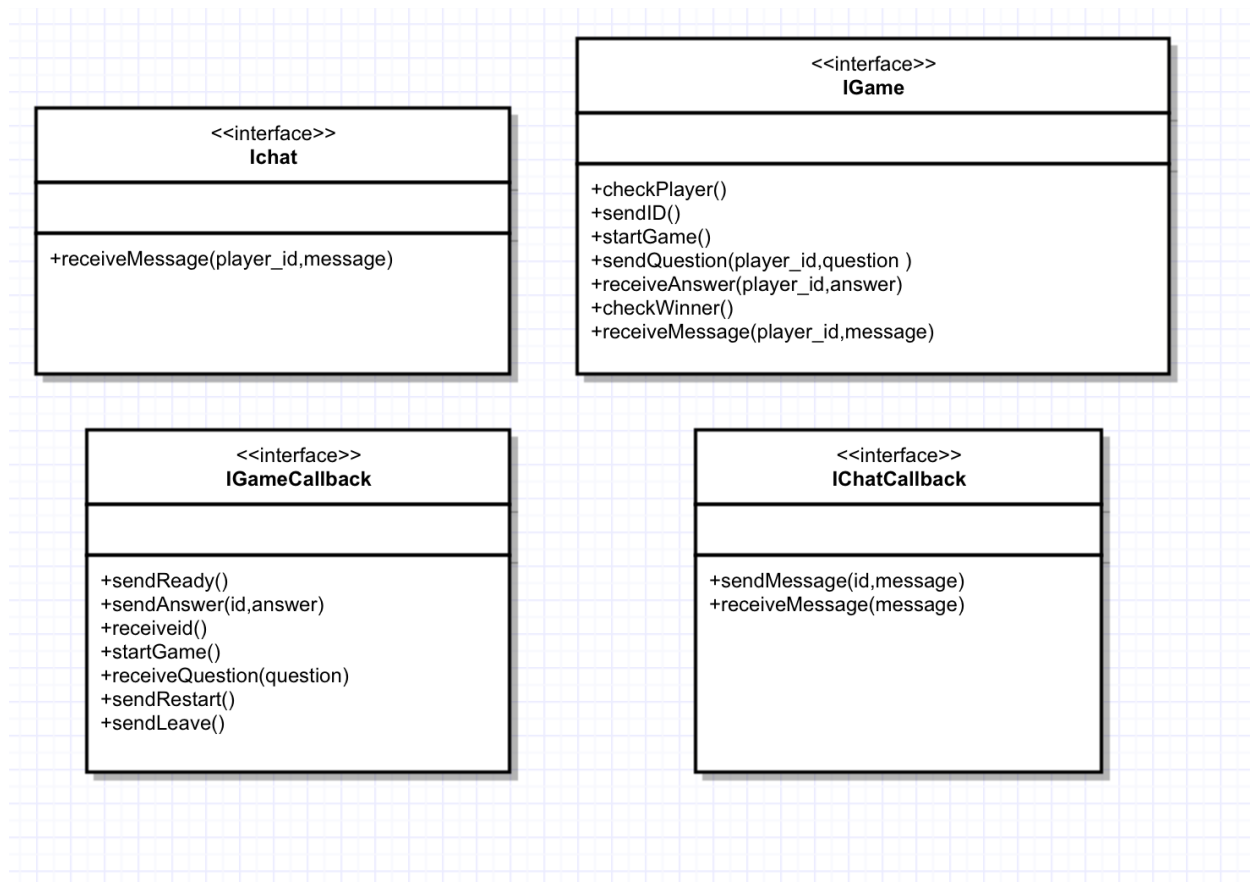
```

[OperationContract(IsOneWay = true)]
void startGameInClient();
}

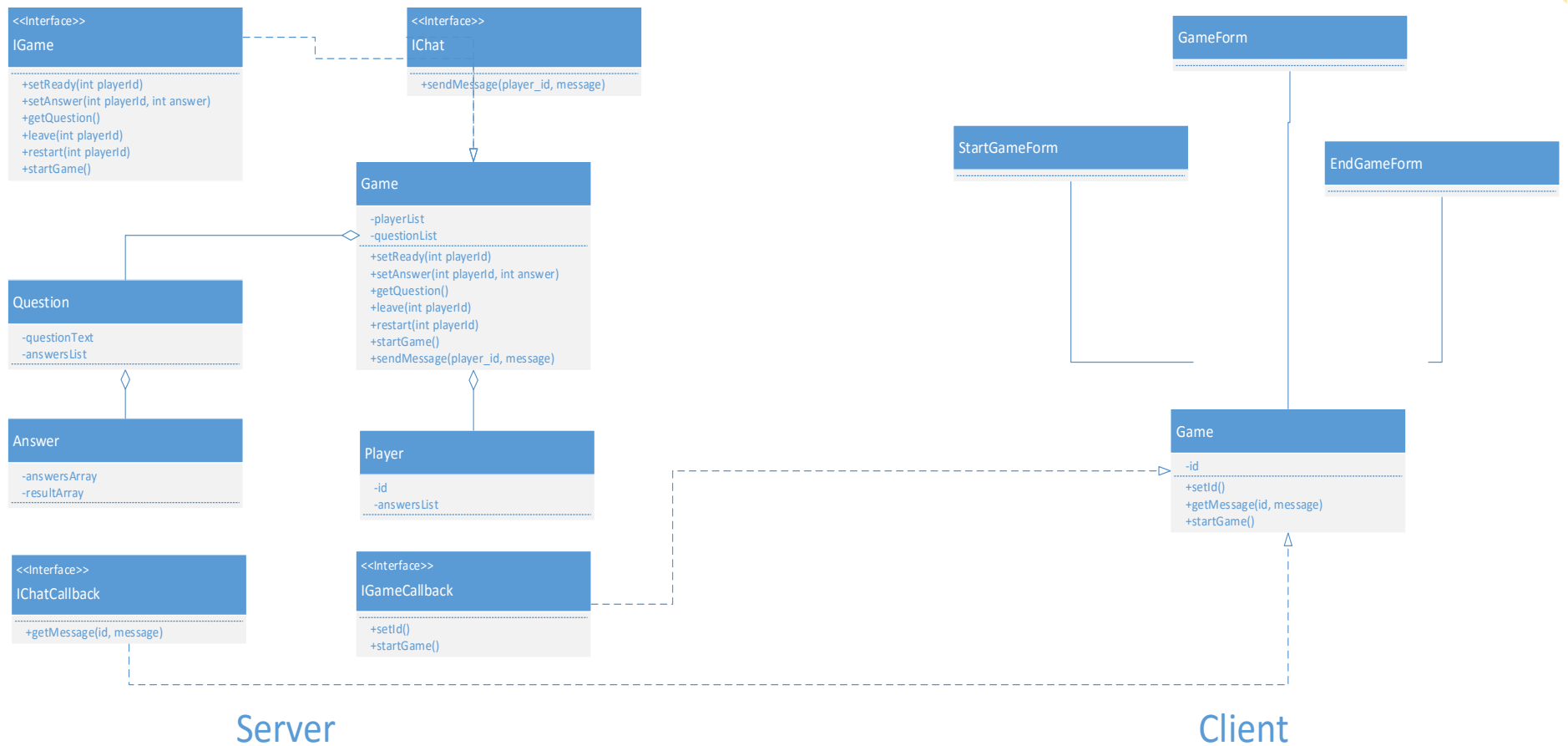
interface IChatCallback
{
    /// <summary>
    /// It receives a message from the chat.
    /// </summary>
    /// <param name="id">The id of the player that sent the message.</param>
    /// <param name="message">The body of the message.</param>
    void getMessage(int id, string message);
}

```

## 2.1 Callbacks/Events

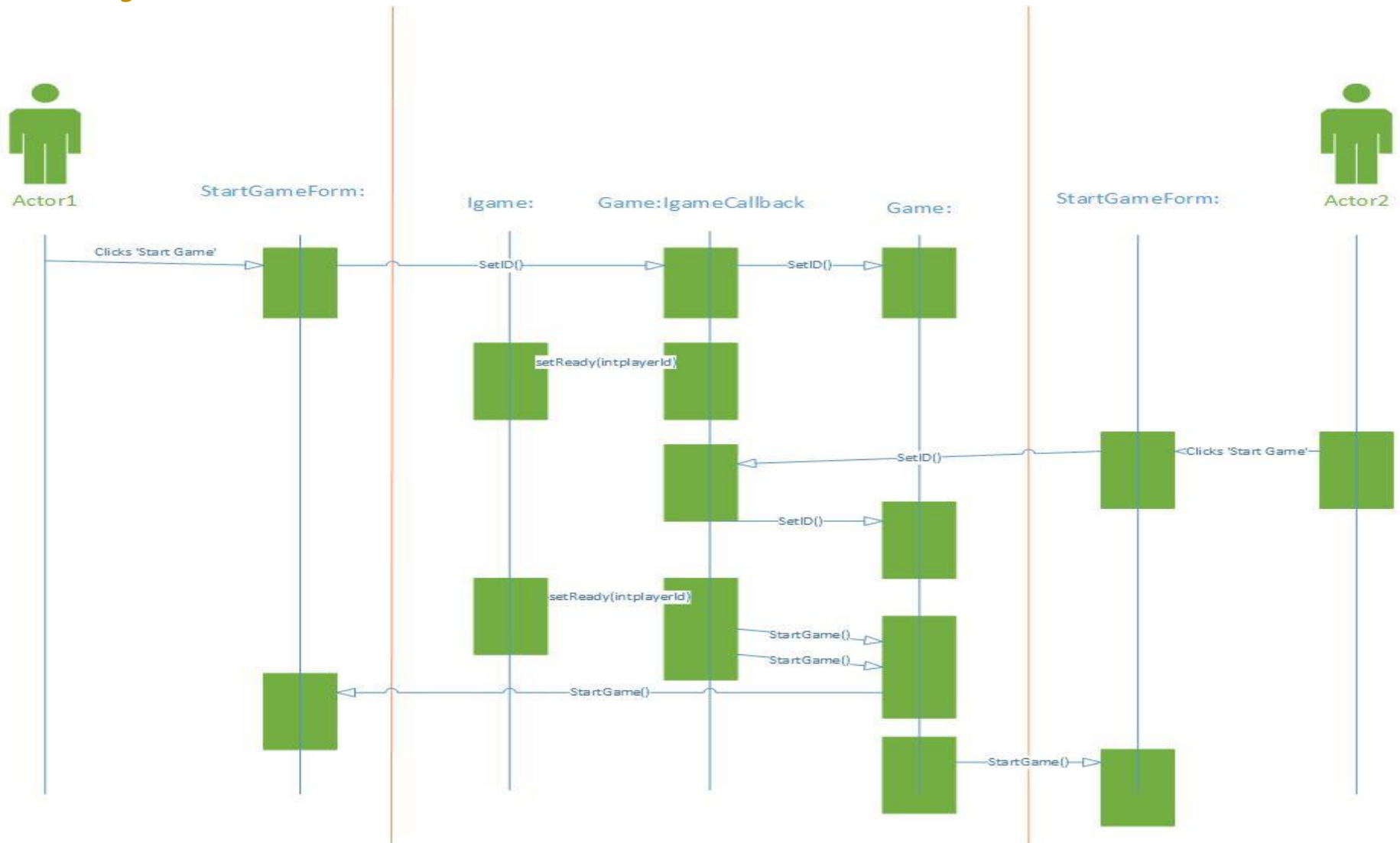


## 3. Class diagram

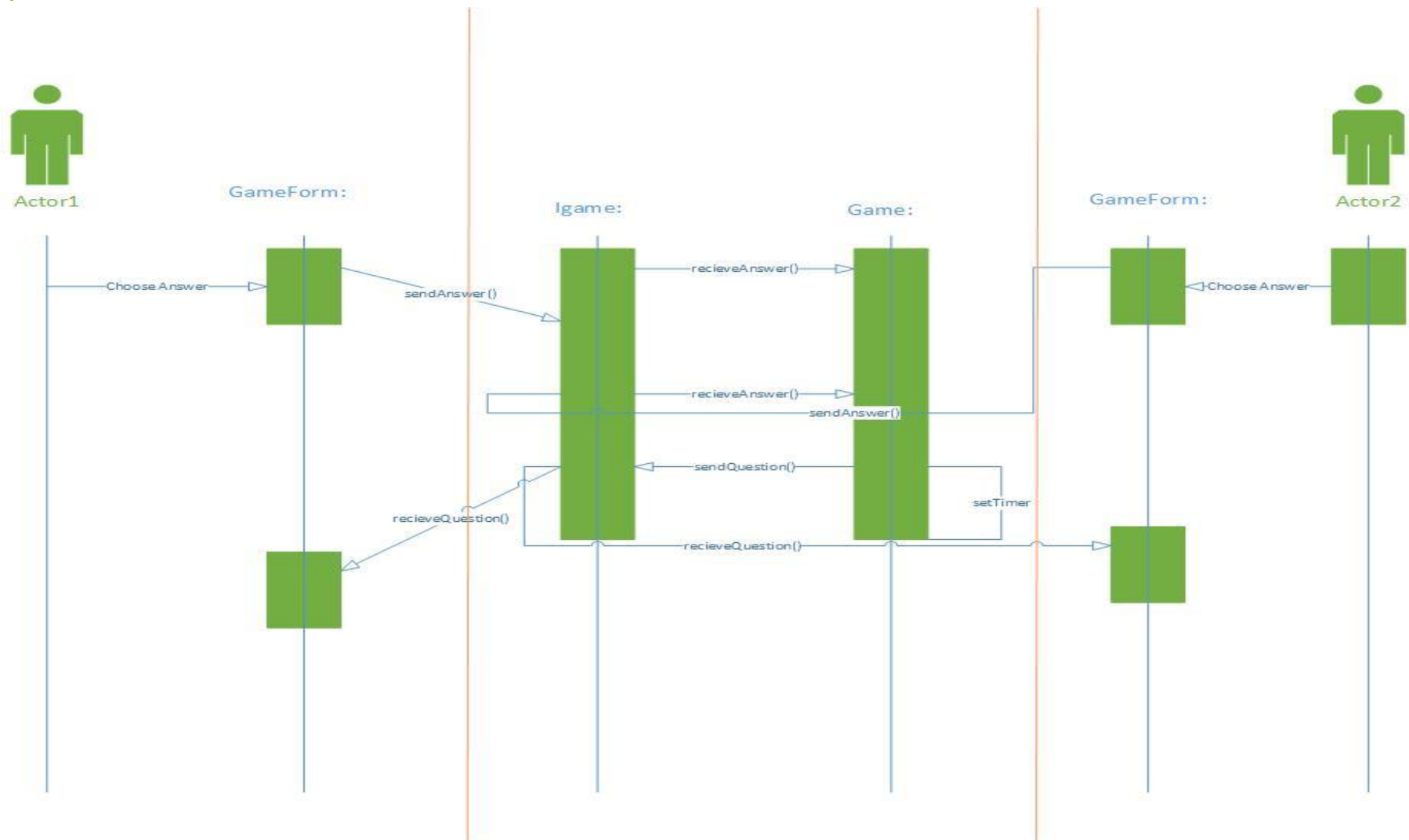


## 4. Sequence diagrams

### 4.1 Start game



## 4.2 Answer Question





### 4.3 Win/Lose/Draw

