

FrameData

```
-mCurrentFrameIndex:size_t  
-mFirstTryPinScore:size_t  
-mSecondTryPinScore:size_t  
-mThirdTryPinScore:size_t  
-mIsSpare:bool  
-mIsStrike:bool  
-mCurrentFrameScore:size_t  
-mSpareBonus:size_t  
-mStrikeBonus:size_t
```

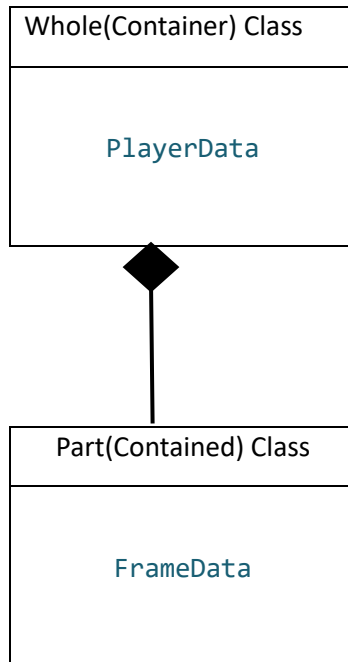
```
+FrameData(_currentFrameIndex:size_t,_firstTryPinScore:size_t,_secondTryPinScore :  
size_t,_thirdTryPinScore:size_t,_isSpare:bool,_isStrike:bool,_currentFrameScore:size_t,  
_spareBonus:size_t,_strikeBonus:size_t)  
setFrameID(_frameID:const size_t&):void  
<<const>>  
+getFrameID():const size_t&  
+setFirstTryPinScore(_firstTryPinScore:size_t):void  
<<const>>  
+getFirstTryPinScore():const size_t&  
+setSecondTryPinScore(_secondTryPinScore:size_t):void  
<<const>>  
+getSecondTryPinScore():const size_t&  
+setThirdTryPinScore(_ThirdTryPinScore:size_t):void  
+getThirdTryPinScore():const size_t&  
+setSpareFlag(_isSpareFlag:bool):void  
<<const>>  
+getSpareFlag():const bool&  
+setStrikeFlag(_isStrikeFlag:bool):void  
<<const>>  
+getStrikeFlag():const bool&  
+setCurrentFrameScore(_currentFrameScore:size_t):void  
<<const>>  
+getCurrentFrameScore():const bool&  
+setSpareBonus(_spareBonus:size_t):void  
<<const>>  
+getSpareBonus():const size_t&  
+setStrikeBonus(_strikeBonus:size_t ):void  
<<const>>  
+getStrikeBonus():const size_t&  
<<const>>  
+getPrevFrameIndex():const size_t  
+inputDataValidation(currentFrameDataIndex:const size_t&):void  
+~FrameData()  
-inputValidation(_pinScore:size_t&):void  
-validateInputPinScore():void
```

PlayerData
- mName:string - mCurrPlayerFrameData:vector<FrameData>
+PlayerData(_playerName:string) +addFrameData(_frameData:const FrameData&):void +calculatePerFramePlayerScore():void <<const>> +getPlayerName():string <<const> +getPrevFrameScore(prevFrameID:const size_t&):const size_t& +getCurrentPlayerFrameData():const vector<FrameData>& +~PlayerData() -inputValidation():void -calculateSpareBonusScore(frameIndex:const size_t&):size_t -calculateStrikeBonusScore(frameIndex:const size_t&):size_t

BowlingGame
- mPlayerFrameData:static vector<PlayerData>
+BowlingGame() + addPlayerData(_playerData:const PlayerData&):void + playerFrameScoreDataPrinter():void + calculateScore():void +~BowlingGame() -inputUTDataValidation(playerIndex:const size_t&):void -executeUnitTestCase():void

GameException
-mExceptionMessage: string
+ GameException(_exceptionMessage:const std::string&) + what():const char*

Relationships between classes [PlayerData & FrameData Association]



Relationships between classes [BowlingGame & PlayerData Association]

