# Scenario – Bug Reports

## Scenario Description

* This set of tests aims to replicate the reported bugs for the ‘Crown and Anchor’ game
* A single test will reliably replicate a single reported bug
* For each script a set of pre-conditions, post conditions, required data, required actions and expected results will be included, as well as any necessary tear-down steps.
* As much as possible acceptance criteria will be clear, unambiguous and quantifiable.

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 0.1 | 20/09/2014 | Sam Stow | Initial Draft |

## Test Scripts

The following scripts will cover this scenario:

1. Bug – Game does not pay out at correct level
2. Bug – Player cannot reach betting limit
3. Bug - Odds in the game do not appear to be correct.
4. Bug – Dice seem to always roll the same after first roll.

## Use Case

* Gameplay

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* User wishes to play the Crown and Anchor game

## User Groups

* Players of the game

## Script 1: Bug – Game does not pay out at correct level

### Script Description

* This script covers the bug which occurs when a player wins on 1 match, the balance does not increase.

### Testing Requirements

This test concerns the following rules of game pay:

* A wager on a particular symbol shall win if the symbol appears on one or more of the uppermost face of the three dice and shall lose if the symbol does not appear.

|  |  |
| --- | --- |
| if the symbol appears on the uppermost face of 3 dice | 3 to 1 |
| if the symbol appears on the uppermost face of 2 dice | 2 to 1 |
| if the symbol appears on the uppermost face of 1 dice | 1 to 1 |

* Winning wagers shall be paid at odds not less than:-
* If a user therefore bets $5 on a particular symbol and it appears on only 1 matching dice, the balance of the user should increase by $5.

### Pre-conditions

* A user must have registered for gameplay and have a positive balance greater than the minimum bet. .
* A game must be initialized with 3 dice.

### Required Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| A valid user | Name “Sam” | Starting balance 100 | Minimum balance limit  0 |  |  |
| Three new dice | No initialization values | Variable names d1, d2, d3 |  |  |  |
| Game | Initialised with dice d1, d2 & d3 |  |  |  |  |
| A bet | Pick “Crown” | Bet $5 |  |  |  |
|  |  |  |  |  |  |

### Post-conditions

* Post conditions are dependant on dice values returned. Require multiple runs to verify different post conditions.
* Cases
  + 0 matches (No ‘crown’ rolled) – result = -5, player balance decreases by bet amount ($5) – final balance $95
  + 1 match (1 ‘crown’ rolled) – result = 5, player balance increases by 1 x bet amount ($5) – final balance $105
  + 2 matches (2 ‘crowns’ rolled) – result = 10, player balance increases by 2 x bet amount ($10) – final balance $110
  + 3 matches (3 ‘crowns’ rolled) – result = 15, player balance increases by 3 x bet amount ($15) – final balance $120

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | Create player | Player exists with name “Sam”, balance 100, and limit 0 |  |
| 2 | Create dice | 3 new dice exist – d1, d2, d3 |  |
| 3 | Create game with dice | A new valid game exists |  |
| 4 | Play round (Pick ‘crown’, bet 5) | A result (winnings amount) and 3 new dice values |  |
| 5 | Check result | Confirm winnings amount is correct based on dice values as follows:   * 0 crowns – Winnings = -5 * 1 crown – Winnings = 5 * 2 crowns – Winnings = 10 * 3 crowns – Winnings = 15 |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
|  |  |  |  |  |