**Test Scripts**

**Place Building Use Case**

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| **Case Number** | **Test Case** | **Expected Result** | **Actual Results** | **Pass/Fail** |
| 1 | User selects a building to place | A ‘ghost’ of building appears and moves with player’s mouse position | A ‘ghost’ of building appears and moves with player’s mouse position | Pass |
| 2 | The user has a building selected | A ‘ghost’ of building appears and moves with player’s mouse position | A ‘ghost’ of building appears and moves with player’s mouse position | Pass |
| 3 | Comparison between cost of building and minerals of the player | When player clicks, the game should branch down one of two paths; sufficient or insufficient funds | Branches down the correct path of sufficient funds | Pass |
| 4 | Player has sufficient funds | If player has sufficient funds, no error message is shown and game progresses to check surrounding area | No error message and surrounding area is checked next | Pass |
| 5 | Game checks surrounding area to ensure it is clear of other structures | If surrounding area is clear, ’ghost’ of building is shaded green | The ‘ghost’ of the building appears green. | Pass |
| 6 | Building is not overlapping edge of the grid | If the building is not overlapping, it should again appear green | Building ghost appears green | Pass |
| 7 | Game creates building at chosen location | Building no longer tracks the mouse, and the ghost appears white. Can no longer build in that location until building is deleted. | Building is fixed in place with a white ghost appearance. | Pass |
| 8 | Game deducts cost of the building from the player | The player should have less minerals relevant to the price of the building | The player has less minerals then before placing the building | Pass |
| 2A1 | Insufficient minerals with error message | An alert should display stating that the player does not have enough minerals | No error message is displayed however it does stop the player from purchasing the building | False |
| 4A1 | Surrounding area used with error message | An error message should display stating that the area is in use | No error message is displayed, but the ghost of building appears red | False |
| 5A1 | Building overlaps the edge with error message | An error message should display that the building is not in a valid location | Again the ghost turns red and the user cannot place it in that location, but no error message is displayed | False |