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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X\_\_ System \_\_** | **Test Date: 4/2/2020** |
| **Test Case ID#: stv\_candidate\_UT006** | **Name(s) of Testers: Bryan Baker** |
| **Test Description:**  **The test verifies that stv candidate objects can have ballots assigned to them.** |  |
| **Automated: yes\_X\_\_ no \_\_\_** | **Test File: candidate\_UT.cc**  **Method: TEST\_F(STVCandidateTests, AddBallot)** |
| **Results: Pass \_\_X\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  **Create two stv candidate objects candidate1 and candidate2 and two ballot objects ballot1 and ballot2.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Check initial ballot counts candidate1. | candidate1 | 0 | 0 |  |
| 2 | Check initial ballot counts candidate2. | candidate2 | 0 | 0 |  |
|  | Check initial first ballot num for candidate1 | candidate1 | 0 | 0 |  |
|  | Check initial firstt ballot num for candidate2 | candidate2 | 0 | 0 |  |
| 3 | Add a ballot to candidate1 | candidate1, ballot1 |  |  |  |
| 4 | Check ballot counts for candidate1 | candidate1 | 1 | 1 |  |
| 5 | Check ballot counts for candidate2 | candidate2 | 0 | 0 | checking that candidate2 was not affected. |
|  | Check first ballot num for candidate1 | cnadidate1 | 1 | 1 |  |
|  | Check first ballot num for candidate2 | candidate2 | 0 | 0 |  |
| 6 | Add a ballot to candidate2 | candidate2, ballot2 |  |  |  |
| 7 | Check ballot counts for candidate1 | candidate1 | 1 | 1 | make sure that candidate1 did not change. |
| 8 | Check ballot counts for candidate2 | candidate2 | 1 | 1 |  |
|  | Check first ballot number for candidate1 | candidate1 | 1 | 1 |  |
|  | Check first ballot numbedr for candidate2 | cndidate2 | 2 | 2 |  |
| 9 | Add ballot1 to candidate2 | candidate2, ballot1 |  |  | Thinking that this test would be nice to ensure that we can not assign the same ballot to two different candidates. |
| 10 | check ballot counts for candidate1 | candidate1 | 1 | 1 | Checking that candidate1 was not affected. |
| 11 | Check ballot counts for candidate2 | candidate2 | 1 | 2 | Failed this test. |
|  | Check first ballot number for candidate1 | candidate1 | 1 | 1 |  |
|  | Check first ballot numbedr for candidate2 | cndidate2 | 2 | 2 |  |

**Post condition(s) for Test:**

Two candidate objects can have ballot objects added to them.