Test plan

Unit tests will be done for each component of the MVC architecture. A series of unit tests will be produced to test the components.

Unit test: Model

Who will do them: Brian, Oscar, Kelvin.

What will be done: The tests below will be written as a main method in separate Java wrapper classes (one for each test) and stored as .java files in the SVN folder /src/unitTests/Model.

1. Instantiate an airport (“Heathrow”) with a runway (TODA = ; TORA = ; ASDA = ; LDA = ).

Expected result: The variable’s values are printed using system.out.println() to show that they are assigned to the correct values.

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1. Instantiate an obstacle (Height = ). Expected result: An instance of Obstacle is created with the variable height set to .
2. Instantiate an obstacle (Height = ). Expected result: An instance of Obstacle is created with the variable height set to .
3. Instantiate an obstacle (Height = ). Expected result: An instance of Obstacle is created with the variable height set to .
4. Calculate new values for runway in 1 with obstacle in 4. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
5. Calculate new values for runway in 1 with obstacle in 5. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
6. Calculate new values for runway in 1 with obstacle in 6. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
7. Calculate new values for runway in 2 with obstacle in 4. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
8. Calculate new values for runway in 2 with obstacle in 5. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
9. Calculate new values for runway in 2 with obstacle in 6. Expected result: TODA = ; TORA = ; ASDA = ; LDA =
10. Save airport in 1 and 2 to XML file. Expected result:
11. Save obstacle in 4, 5, 6 to XML files. Expected result:
12. Load an airport (saved in 12) from XML file. Expected result:
13. Load an obstacle (obstacle 5 saved in 13) from XML file. Expected result: