**Test cases #1**

**JUnit tests for TimelineModel / EventModel / AppModel**

**TimelineModel**

Test Case 1.1: Add an event

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TA1.1 | A2 | - Add an event to the ArrayList. | The event is in the Timeline. |

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TA1.2 | A2 | - Add many events to the ArrayList. | The events are in the Timeline. |

Test Case 1.2: Add many events

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD1.1 | D2 | - Delete an event from the ArrayList. | The event is removed from the Timeline. |

Test Case 1.3: Delete an event

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD1.2 | D2 | - Delete many events from the ArrayList. | The events are removed from the Timeline. |

Test Case 1.4: Delete many events

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD1.3 | D2 | - Delete non-existent. | Ignore it. Timeline stays the same. |

Test Case 1.5: Delete non-existent

Test Case 1.6: Modify timeline in a way that works

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TM1.1 | M1 | - Way that works. | Timeline is successfully modified. |

Test Case 1.7: Modify timeline in a way that doesn`t work

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TM1.2 | M1 | - way that doesn`t work  (end date before start date) | Throws Error |

**EventModel**

Test Case 2.1: Modify event in a way that works

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TM2.1 | M2 | - Way that works. | Event is successfully modified. |

Test Case 2.2: Modify event in a way that doesn`t work

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TM2.2 | M2 | - way that doesn`t work  (end date before start date) | Throws Error |

**AppModel**

Test Case 3.1: Add a timeline

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TA3.1 | A1 | - Add a timeline to the ArrayList. | The timeline is in the ArrayList. |

Test Case 3.2: Add many timelines

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TA3.2 | A1 | - Add many timelines to the ArrayList. | The timelines are in the ArrayList. |

Test Case 3.3: Delete a timeline

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD3.1 | D1 | - Delete a timeline from the ArrayList. | The timeline is removed from the ArrayList. |

Test Case 3.4: Delete many timelines

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD3.2 | D1 | - Delete many timelines from the ArrayList. | The timelines are removed from the ArrayList. |

Test Case 3.5: Delete non-existent

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Req. | How to test | Expected result |
| TD3.3 | D1 | - Delete non-existent. | Ignore it. App stays the same. |

**Test results – JUnit tests**

**TimelineModel - Tianyi**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Req.** | **Test Result** | **Comment** |
| **TA1** | A1 | passed  passed | An event or events are in the TimeLine. |
| **TD1.1** | D1 | passed  passed | No longer that Event or events in the TimeLine. |
| **TD1.2** | D1 | passed | TimeLine stays the same. |
| **TM1.1** | M1 | Not implemented |  |
| **TM1.2** | M1 | Not implemented |  |

**EventModel - Idris**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Req.** | **Test Result** | **Comment** |
| **TM2.1** | M2 | Not implemented |  |
| **TM2.2** | M2 | Not implemented |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Req.** | **Test Result** | **Comment** |
| **TA3.1**  **TA3.2** | A3 | Passed  Passed | One timeline and many timelines are successfully added. |
| **TD3.1**  **TD3.2** | D3 | Passed  Passed | One or many timelines are successfully deleted. |
| **TD3.2** | D3 | Not implemented |  |

**AppModel - Ruth**