# Project 0: System Test Plan

There are 13 system tests. All tests are worth 3 points for a total of 39 points. For each test, 2 points are for passing the test and 1 point is for reporting the actual results of running the test on YOUR program - even if the test if failing! You earn the last point (to get to 40) for submitting your system test plan in the appropriate format.

To run the tests:

1. Right click on PolarSchedulerUI class in the Package Explorer.
2. Select Run As > Java Application

Note that while all tests end with the statement to Close GUI, you do not need to re-launch the GUI each time as long as there are no failures.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Invalid File | Preconditions: None   1. Run PolarSchedulerUI. 2. *Check results* 3. Close GUI | * PolarSchedulerUI loads * Course Catalog is empty * My Schedule is empty * Course Details only shows labels | **The UI loads perfectly. Course catalogue and schedule are empty, and course details only shows labels.** |
| Test 2: Add Valid Course | Preconditions: None   1. Run PolarSchedulerUI. 2. Click Add New Course 3. For course details, enter in:    1. Name: CSCI 2335    2. Section: a    3. Title: Software Engineering    4. Instructor: k.preslermarshall    5. Start Time: 1005    6. End Time: 1130    7. Meeting Days: TH 4. Click **Add Course** 5. *Check results* 6. Click **Return to Course Catalogue** 7. *Check results* 8. Close GUI | After Step 1: PolarSchedulerUI loads  My Schedule is empty  Was told Course added successfully. Panel was loaded. CSCI 2335 was the only course added.  Course Details only shows labels  After Step 2: New Course Details panel loads  After Step 4: The message “Course added successfully” is displayed, and the text fields reset  After Step 5: The Course Catalogue shows, displaying “CSCI 2335 – a – Software Engineering” as the only course. | **New Course Details Window appears.** |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed   1. Make sure that no row in the Course Catalog table is selected (if there is a row selected, restart the GUI) 2. Click **Add Course** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No course selected in the catalog.” is displayed. | **No course selected in the catalogue was shown.** |
| Test 4: Add | Preconditions: Test 2 has passed   1. Select the 1st row of the Course Catalog table (CSCI 2335, a, Software Engineering) 2. *Check results* 3. Click **Add Course** 4. *Check results* 5. Close GUI | Course Details are displayed   * Name: CSCI 2335 * Section: a   Allowed me to select the row and the course information appeared at the bottom. After clicking add course, the information appeared at my schedule.   * Title: Software Engineering * Instructor: k.preslermarshall * Meeting: TH 10:05AM-11:30AM   Course CSCI 2335, a, Software Engineering is listed in the My Schedule table, and the details below the table |  |
| Test 5: Remove - No Sel. | Preconditions: Test 2 and Test 4 have passed   1. Make sure that no row in the My Schedule table is selected (if there is a row selected, restart the test) 2. Click **Remove Course** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No item selected in the schedule.” is displayed. | **Pop up message saying no course was selected appeared.** |
| Test 6: Add Second Course to Catalogue | Preconditions: Test 2 has passed  1. Click **Add New Course**  2. For course details, enter in:  a. Name: CSCI 1101  b. Section: a  c. Title: Intro to Computer Science  d. Instructor: d.byrd  e. Start Time: 1130  f. End Time: 1255  g. Meeting Days: MW  3. Click **Add Course**  4. Check results  5. Click **Return to Course Catalogue**  6. Check results | After Step 1: New Course Details panel loads  After Step 3: The message “Course added successfully” is displayed, and the text fields reset  After Step 5: The Course Catalogue shows.  The first row displays: “CSCI 2335 – a – Software Engineering”  The second row displays: “CSCI 1101 – a – Intro to Computer Science” | **Was told course added successfully. And it appears in the catalogue.** |
| Test 7: Add Second Course to Schedule | Preconditions: Test 4 and Test 6 have passed   1. Select the second row of the catalogue, “CSCI 1101 – a – Intro to Computer Science” 2. Click **Add Course** 3. Check Results | My Schedule shows two courses:  The first row displays: “CSCI 2335 – a – Software Engineering”  The second row displays: “CSCI 1101 – a – Intro to Computer Science” | **First and second rows shows the appropriate courses.** |
| Test 8: Add Second Section | Preconditions: Test 6 has passed  1. Click “Add New Course” button  2. For course details, enter in:  a. Name: CSCI 1101  b. Section: b  c. Title: Intro to Computer Science  d. Instructor: cfreire  e. Start Time: 1005  f. End Time: 1130  g. Meeting Days: TH  3. Click **Add Course**  4. Check results  5. Click **Return to Course Catalogue**  6. Check results | After Step 1: New Course Details panel loads  After Step 3: The message “Course added successfully” is displayed, and the text fields reset  After Step 5: The Course Catalogue shows.  The first row displays: “CSCI 2335 – a – Software Engineering”  The second row displays: “CSCI 1101 – a – Intro to Computer Science”  The second row displays: “CSCI 1101 – b – Intro to Computer Science” | **Course added successfully appeared and the course can be seen in the catalogue. Courses are also displayed in the right rows.** |
| Test 9: Add Same Course | Preconditions: Test 7 and Test 8 have passed   1. Select the 3rd row of the Course Catalog table (CSCI 1101, b, Intro to Computer Science) 2. Click **Add Course** 3. *Check results* 4. Click **OK** 5. *Check results* 6. Close GUI | After Step 2: A pop-up dialog stating “You are already enrolled in CSCI 1101” is displayed.  After Step 4: My Schedule shows two courses:  The first row displays: “CSCI 2335 – a – Software Engineering”  The second row displays: “CSCI 1101 – a – Intro to Computer Science” | **Did not receive the pop up dialogue that I am already enrolled in CSCI 1101. It was added to schedule.** |
| Test 10: Set Title | Preconditions: Test 7 has passed   1. Enter “My New Schedule” into the Schedule Title text field 2. Click **Set Title** 3. *Check results* 4. Close GUI | The label on the third section of the GUI now contains the text “My New Schedule” instead of “My Schedule”. The list of courses is unchanged. | **Courses were unchanged while schedule title was properly renamed.** |
| Test 11: View Final Schedule | Preconditions: Test 7 has passed:   1. Click **Display Final Schedule** 2. *Check results* 3. Close GUI | Schedule Title: “My Schedule”  Schedule Table   * CSCI 2335 – a – Software Engineering – k.preslermarshall – TH 10:05AM-11:30 AM * CSCI 1101 – a – Intro to Computer Science – d.byrd – MW 11:30-12:55PM | **Everything looks right except for section b CSCI 1101 being added as a third row.** |
| Test 12: Reset Schedule | Preconditions: Test 7 has passed   1. Click **Reset Schedule** 2. *Check results* 3. Close GUI | The list of scheduled courses is emptied. | **The list of scheduled courses is now empty.** |
| Test 13: Add Invalid Course | Preconditions: PolarSchedulerUI is running   1. Click “Add New Course” 2. Enter in:    1. Name: CSCI 2101    2. Section: <leave blank>    3. Title: Data Structures    4. Instructor: ltoma    5. Start Time: 0930    6. End Time: 1055    7. Meeting Days: S 3. Click “Add Course” 4. Check results 5. For Section, enter b 6. Click “Add Course” 7. Check results 8. Change Meeting Days from S to WF 9. Click “Add Course” 10. Check results 11. Click “Return to Course Catalogue” | After step 3: An error message, “Invalid section.” is displayed.  All values remain in their respective boxes  After step 6: An error message, “Invalid meeting days and times.” is displayed. All values remain in their respective boxes.  After step 9: A success message, “Course added successfully” is displayed  After step 11: the last row in the course catalogue is “CSCI 2101 – b – Data Structures”. Any existing courses, depending on what test(s) you ran previously, remain. | **Invalid section occurred at step 3. Invalid meeting days and times occurred at step 6. Course was added successfully at step 9. Everythign went well.** |