

BLACK BOX TESTING

Name: _____

Date: __/__/__

Position: _____

Timetable form – The timetable form includes combo boxes to select the grade level and section, along with buttons for submitting, editing, deleting, and accessing the "grade level schedule."

| Test Case | Test Purposes | Test Condition | Expected Output | Actual Result | Remarks |
|--------------------------------|---|--|--|---------------|---------|
| Grade level combo box | To test if the grade level combo box is functional | If a user selects a grade level | The section combo box should be populated by sections assigned to the selected grade level. | | |
| Timetable submit button | To test if the timetable submit button is functional. | <p>If a user clicked the submit button.</p> <p>If a user did not select a grade level and section.</p> <p>If a selected grade level is greater than 10</p> | <p>The schedule of the selected section should appear.</p> <p>The action should not proceed.</p> <p>A separate schedule for 1st semester and 2nd semester should appear.</p> | | |

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| Adviser combo box | To test if the adviser combo box is functional. | If an adviser has not yet been appointed to the section. | The names of the teachers assigned to teach a subject for the chosen section and who have the role of "ADVISER TEACHER" should appear in the advisor combo box. | | |
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| | | If the section already has an assigned adviser. | The combo box should disappear and a label with the name of the assigned adviser of the section should appear. | | |
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| Add button | To test if the add button is functional | <p>If the user clicked the add button.</p> <p>If the user clicked the add button and the assigned grade level for the section is less than 11</p> <p>If the user clicked the add button and the assigned grade level for the section is greater than 10</p> | <p>A form for adding a schedule should appear.</p> <p>Only the selection for the subject, department, day, start time, end time, and teacher name should be visible on the form.</p> <p>There should be a display of the additional selection for the semester along with details about the track and strand of the section.</p> | | |
| Edit button | To test if the edit button is functional | If the user clicked the edit button | An edit form should appear | | |
| Delete button | To test if the delete button is functional | If the user clicked the delete button | A confirmation dialog should appear. | | |
| Grade level schedule button | To test if the grade level schedule | If the user clicked the grade level schedule | It should open a form to access the assigned | | |

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| | button is functional. | | schedule per grade level. | | |
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Grade level schedule form –

| Test Case | Test Purposes | Test Condition | Expected Output | Actual Result | Remarks |
|------------------------------|--|--|---|----------------------|----------------|
| Grade level combo box | To test if the grade level combo box is functional | If the user selected a grade level | The information about its schedule should be displayed. | | |
| Start time input | To test if the start time is functional | If the user completed the start time input. | The end time input should be populated. | | |
| Break time end input | To test if the break time input is functional | <p>If the user completed the break time input</p> <p>If the user enters a break time that is equal to or less than the class's start time</p> <p>If the provided end of break time exceeds or does not</p> | <p>The end of break time schedule should be populated.</p> <p>The process should be halted, and an error message relevant to the issue should be displayed.</p> <p>The process should be halted, and an error message relevant to</p> | | |

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| | | leave at least a 2-hour gap between the | the issue should be displayed. | | |
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| | | end of the class | | | |
| Submit button | To test if the submit button is functional | If the user clicked the submit button | The schedule of the selected grade level should be updated. | | |

Add schedule form – The schedule addition form incorporates options for selecting a subject, teacher, start and end time schedule, and day. If the chosen section pertains to senior high, an extra option for the semester is available, and it provides information about the track and strand of the section.

| Test Case | Test Purposes | Test Condition | Expected Output | Actual Result | Remarks |
|--------------------------|---|-------------------------------|--|---------------|---------|
| Subject combo box | To test if the subject combo box is functional. | If the user selects a subject | The teacher combo box should be filled with the names of the teachers assigned to the chosen department once the assigned department to subject appears. | | |

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| Day combo box | To test if the day combo box is functional. | If the user selects a day | Start time combo box should be populated with the available time. | | |
| Start time combo box | To test if the start time combo box is functional. | If the user selects a start time | One hour following the start time should be the time that appears in the end time combo box. | | |

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| Add schedule submit button | To test if the submit button for adding a schedule is functional | <p>If the user clicked the submit button</p> <p>In the event that the user submitted and an overlapping schedule — whether it be a teacher's schedule or a subject schedule—</p> | <p>The form should be close and the timetable should show the updated schedule.</p> <p>The action needs to stop and display an error message indicating that there is a scheduling overlap.</p> | | |
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Edit schedule form – The edit schedule form includes textboxes showing the instructor's name and the subject assigned to them for the chosen section. Additionally, there are three combo boxes available to modify the schedule of the selected teacher or instructor.

| Test Case | Test Purposes | Test Condition | Expected Output | Actual Result | Remarks |
|----------------------|--|---|--|---------------|---------|
| Day combo box | To test if the day combo box is functional | <p>If the user selected a day that is different from what is originally set</p> <p>Should the user have chosen the same day as the initial designated day</p> | <p>Start time should be populated by the available time on the selected day.</p> <p>Start time should be filled in with the time that is available on the selected day, and it should show the</p> | | |

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| | | | actual time that was initially assigned. | | |
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| Start time combo box | To test if the start time combo box is functional | If the user selected a start time | The exact one hour added to the start time should be displayed at the end time combo box. | | |
| Edit schedule submit button | To test if the submit button for editing a schedule is functional | <p>If the user clicked the submit button</p> <p>In the event that the user submitted and an overlapping schedule — whether it be a teacher's schedule or a subject schedule— occurs</p> | <p>The form should be close and the timetable should show the updated schedule.</p> <p>The action needs to stop and display an error message indicating that there is a scheduling overlap.</p> | | |