

Test ID	Related Requirement	Test Description	Test Steps	Expected Result
Events				
Note that the valid events created in this example will all have the name "test", description "test", start time of 3/20/2019 at 1pm and end time of 3/29/2019 at 2pm				
Note that the valid deadline events created have the same name "test", description "test", start time of 3/20/2019 at 1pm and deadline of 3/29/2019 at 2pm				
T_CR_1	Event.Create	Create a standard event	1. Click create a standard event 2. Enter a name, description and valid start/end time 3. Click submit	A new standard event should be created with the correct parameters
T_CR_2	Event.Create	Create a location event	1. Click create a location event 2. Enter a name, description and valid start/end time 3. Click submit	A new location event should be created with the correct parameters
T_CR_3	Event.Create	Create a deadline event	1. Click create a deadline event 2. Enter a name, description and valid deadline and worktime	Time blocks scheduled for the deadline event which comply with the autoscheduling requirements
T_CR_4	Event.Create	Create a standard event with a frequency	1. Click create a standard event 2. Enter a name, description and valid start/end time 3. Enter a frequency of daily	A new standard event should be created with the correct parameters which recurs according to frequency
T_CR_5	Event.Create	Create a standard event that is unlocked	1. Click create a standard event 2. Enter a name, description and valid start/end time 3. Click submit	A new standard event should be created with the correct parameters and unlocked
T_CR_6	Event.Create	Create a standard event with a location	1. Click create a standard event 2. Enter a name, description and valid start/end time 3. Enter a valid location 4. Click submit	A new standard event should be created with the correct parameters including location
T_CR_7	Event.Create	Create a standard event with a notification	1. Click create a standard event 2. Enter a name, description and valid start/end time 3. Add a text notification to it 4. Click submit	A new standard event should be created with the correct parameters including the notification
T_ED_1	Event.Edit Event.Name	Edit a standard event's name	1. Create a valid standard event 2. Click edit event 3. Change the event name to "newname"	The event's name should update
T_ED_2	Event.Edit Event.Description	Edit a standard event's description	1. Create a valid standard event 2. Click edit event 3. Change the event description to "new description"	The event's description should update
T_ED_3	Event.Lock	Lock an event	1. Create a valid standard event 2. Click edit event 3. Lock the event	The event should be locked
T_ED_4	Event.Unlock	Unlock an event	1. Create a valid standard event 2. Click edit event 3. Unlock the event	The event should be unlocked
T_ED_5	Event.Edit Event.TimePeriod Event.Standard.StartTime	Change the start time of an event	1. Create a valid standard event 2. Click edit event 3. Change the start time of the event to 3/28/2019 at 4pm	The event's start time should update
T_ED_6	Event.Edit Event.TimePeriod Event.Standard.EndTime	Change the end time of an event	1. Create a valid standard event 2. Click edit event 3. Change the end time of the event to 3/30/2019 at 10pm	The event's end time should update
T_ED_7	Event.Edit Event.Frequency	Change the frequency of an event	1. Create a valid standard event 2. Click edit event 3. Change the frequency of the event to monthly	The event's frequency should update
T_ED_8	Event.Edit Event.Location	Change the location of an event	1. Create a valid standard event 2. Click edit event 3. Change the location of the event to "somewhere"	The event's location should update
T_ED_9	Event.Edit Event.Notifications	Change notifications for an event	1. Create a valid standard event 2. Click edit event 3. Change the notifications for the event to banner	The event's notifications should update
			1. Create a valid deadline event	

T_ED_10	Event.Edit Event.Deadline.Deadline	Change the deadline of a deadline event	2. Click edit event 3. Change the deadline of the event to 3/30/2019 at 10pm	The deadline event should update to reflect the new deadline and should be valid
T_ED_11	Event.Edit Event.Deadline.StartTime	Change the start time of a deadline event	1. Create a valid deadline event 2. Click edit event 3. Change the start time of the event 3/28/2019 at 4pm	The deadline event should update to reflect the new start time and should be valid
T_ED_11	Event.Edit Event.Deadline.WorkTime	Change the work time of a deadline event	1. Create a valid deadline event 2. Click edit event 3. Change the work time of the event to 30 minutes	The deadline event should update to reflect the new work time and should be valid
T_DEL_1	Event.Delete	Delete a standard event	1. Create a valid standard event 2. Delete the event	The event should be deleted
T_DEL_2	Event.Delete	Delete a location event	1. Create a valid standard event 2. Delete the event	The event should be deleted
T_DEL_1	Event.Delete	Delete a standard event	1. Create a valid location event 2. Delete the event	The event should be deleted
T_DEL_1	Event.Delete	Delete a deadline event	1. Create a valid deadline event 2. Delete the event	The event should be deleted
Auto-Scheduler				
Note that the valid deadlines created in this exmaple will all have the name "test" and start time of 3/20/2019 at 1pm and end time of 3/29/2019 at 2pm				
Note that the valid schedule will consist of 3 events: "evt1" at 3/21/2019 from 1pm-2pm, "evt2" at 3/25/2019 from 4pm-6pm, "evt3" at 3/28/2019 from 11am-3pm				
T_AS_D_1	Auto.Deadline.Deadline	Verifies AS schedules events before deadline	1. Create a VD 2. Create an empty schedule 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events are not scheduled after deadline.
T_AS_D_2	Auto.Deadline.TotalTime	Verifies AS schedules events with total duration equal to deadline's total time	1. Create a VD 2. Create an empty schedule 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events' duration totals to deadline's total work time.
T_AS_D_3	Auto.Deadline.MinTime	Verifies AS schedules events with durations at least as long as deadline's min time	1. Create a VD 2. Create an empty schedule 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events' durations are greater than or equal to deadline's min time.
T_AS_D_4	Auto.Deadline.MaxTime	Verifies AS schedules events with durations at most as long as deadline's min time	1. Create a VD 2. Create an empty schedule 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events' durations are less than or equal to deadline's min time.
T_AS_D_5	Auto.Deadline.TimeBetween	Verifies the events the AS schedules are spaced by time period given by deadline's time between each other	1. Create a VD 2. Create an empty schedule 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events are spaced out by a period are greater than or equal to deadline's time between.
T_AS_D_6	Auto.Deadline.Breaks	Verifies the events the AS schedules are spaced by time period given by deadline's time between them and all other events	1. Create a VD 2. Create an VS 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events have a period of time greater than or equal to deadline's time between before and after them.
T_AS_S_1	Auto.Schedule.Conflicts	Verifies AS does not schedule events that overlap with other non-location events	1. Create a VD 2. Create a VS 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Events' start times and end times are not in between another event's start and end times.
T_AS_S_2	Auto.Schedule.Lock	Verifies AS does not move locked events	1. Create a VD 2. Create a VS with locked events 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Start and end times of locked events are unchanged
T_AS_S_3	Auto.Schedule.Location	Verifies AS schedules events within correct location events	1. Create a VD with a location 2. Create a VS with location events for the same location as specified in the VD 3. Call AutoSchedule function and pass the VD and schedule as parameters	Events with a specified location are contained within their a location event for the correct location.

			4. Save new schedule and run checks on it	
T_AS_S_4	Auto.Schedule.MoveEvent	Verifies AS can move non-locked, non-location events previously scheduled by the user.	1. Create a VD 2. Create a VS with non-locked and locked events. Events within the VD's valid times must leave only just enough free time for deadline's total work time but not enough with the addition of breaks and max time constraints. 3. Call AutoSchedule function and pass the VD and schedule as parameters 4. Save new schedule and run checks on it	Non-locked Events are moved to create space for AS's events so that they don't conflict with other events.
T_AS_1	Auto.Deadline	Verifies AS can move non-locked, non-location events previously scheduled by the user.	1. Create a VD	AS schedules events that don't conflict with currently in the VS and within the valid work times of the deadline.
	Auto.Schedule		2. Create a VS	
	Auto.Schedule.Deadline		3. Call AutoSchedule function and pass the VD and schedule as parameters	
			4. Save new schedule and run checks on it	
T_Diff_1	Auto.Diff	Verify user is presented with graphical comparison of schedules after creating a deadline event	1. Open Event creation form	User presented with graphical user interface to compare versions of schedules
			2. Select Deadline Event	
			3. Input valid deadline event parameters and submit	
			4. Graphical user interface comparing previous version of the schedule and schedule offered by AS given to user	
T_Diff_2	Auto.Diff.Accept	Verify user can accept changes made by AS	1. Open Event creation form	User can accept calendar generated by AS. Their main schedule is now the version generated by the AS.
			2. Select Deadline Event	
			3. Input valid deadline event parameters and submit	
			4. Graphical user interface comparing previous version of the schedule and schedule offered by AS given to user	
			5. Click Accept	
			6. Main Calendar screen displays new calendar	
T_Diff_3	Auto.Diff.Reject	Verify user can reject changes made by AS and keep their previous calendar	1. Open Event creation form	User can reject calendar generated by AS. Their main schedule remains unchanged.
			2. Select Deadline Event	
			3. Input valid deadline event parameters and submit	
			4. Graphical user interface comparing previous version of the schedule and schedule offered by AS given to user	
			5. Click Reject	
			6. Main Calendar screen displays previous calendar	
T_Diff_3	Auto.Diff.Edit	Verify user can input changes to schedule generated by AS.	1. Open Event creation form	User can input changes to the calendar generated by AS.
			2. Select Deadline Event	
			3. Input valid deadline event parameters and submit	
			4. Graphical user interface comparing previous version of the schedule and schedule offered by AS given to user	
			5. Click on event and change parameters	
			6. Event appears on the calendar with new parameters	
T_Dead_1	Event.Deadline.Deadline	Verify user can create a deadline event with a deadline member.	1. Open Event creation form 2. Select Deadline Event 3. Input valid deadline event parameters and submit 4. Verify the that the Deadline event object was created with the correct deadline member	Deadline object is created with user given deadline member.
T_Dead_2	Event.Deadline.WorkTime	Verify user can create a deadline event with a work time member.	1. Open Event creation form 2. Select Deadline Event 3. Input valid deadline event parameters and submit 4. Verify the that the Deadline event object was created with the correct work time member	Deadline object is created with user given work time member.
Toolbar				
T_DDS_1	Toolbar.Select.DragDrop	Drag and Drop can be selected and deselected successfully on the weekly view	1. Go to Home Screen (open the application) 2. Switch to weekly view 3. Click the Drag and Drop button on the tool bar 4. Click the Drag and Drop button on the tool bar again to deselect	The Drag and Drop feature should be enabled after step 3 and disabled after step 4
T_DDS_2	Toolbar.Select.DragDrop	Drag and Drop can be selected and deselected successfully on the day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Drag and Drop button on the tool bar 4. Click the Drag and Drop button on the tool bar again to deselect	The Drag and Drop feature should be enabled after step 3 and disabled after step 4
T_DDS_3	Toolbar.Select.DragDrop.NoMonthly	Drag and Drop cannot be selected on the monthly view	1. Go to Homescreen (open the application) 2. Switch to monthly view 3. Check the toolbar for the Drag and Drop option	Drag and Drop should not be selectable from the toolbar
T_DD_1	Toolbar.DragDrop.*	Successful selection of Drag and Drop allows the user to move events without having to open the events (in weekly view)	1. Go to Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to the week of 3/29/2019 on the weekly view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the held event to 3/28/2019 at 3pm - 4pm	The event with name "test" should be on 3/28/2019 at 3pm 4pm
			1. Go to Home Screen (open the application)	

T_DD_2	Toolbar.DragDrop.*	Successful selection of Drag and Drop allows the user to move events without having to open the events (in day view)	2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the held event to 3/29/2019 at 3pm - 4pm	The event with name "test" should be on 3/29/2019 at 3pm 4pm
T_DD_SCR_1	Toolbar.DragDrop.Drag	DragDrop will scroll the page down when the user attempts to drag past the end of the screen being shown until the end of the current day in day view	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the event down past the end of the bottom of the screen	The page should scroll until it reaches the end of the day or the user stops
T_DD_SCR_2	Toolbar.DragDrop.Drag	DragDrop will scroll the page up when the user attempts to drag past the top of the screen being shown until the beginning of the day in day view	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the event up past the top of the screen	The page should scroll until it reaches the beginning of the day or the user stops
T_DD_SCR_3	Toolbar.DragDrop.Drag	DragDrop will scroll the page down when the user attempts to drag past the end of the screen being shown until the end of the current day in weekly view	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the event down past the end of the bottom of the screen	The page should scroll until it reaches the end of the day or the user stops
T_DD_SCR_3	Toolbar.DragDrop.Drag	DragDrop will scroll the page up when the user attempts to drag past the top of the screen being shown until the beginning of the day in weekly view	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Drag and Drop button on the toolbar 6. Click and hold the event 7. Move the event up past the top of the screen	The page should scroll until it reaches the beginning of the day or the user stops
T_RSS_1	Toolbar.Select.Re-size	Resize can be selected and deselected successfully on the weekly view	1. Go to Home Screen (open the application) 2. Switch to weekly view 3. Click the Resize button on the tool bar 4. Click the Resize button on the tool bar again to deselect	The Resize feature should be enabled after step 3 and disabled after step 4
T_RSS_2	Toolbar.Select.Re-size	Resize can be selected and deselected successfully on the day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Resize button on the tool bar 4. Click the Resize button on the tool bar again to deselect	The Resize feature should be enabled after step 3 and disabled after step 4
T_RSS_3	Toolbar.Select.Re-size.NoMonthly	Resize cannot be selected on the monthly view	1. Go to Homescreen (open the application) 2. Switch to monthly view 3. Check the toolbar for the Resize option	Resize should not be selectable from the toolbar
T_RS_ST_1	Toolbar.Re-size.*	Resize can change the start time to earlier when the top edge is dragged up	1. Go to Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to the week of 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold top edge of the event 7. Move the top edge to 11am	The event with name "test" should be on 3/29/2019 at 11am -2pm
T_RS_ST_2	Toolbar.Re-size.*	Resize can change the start time to later when the top edge is dragged down	1. Go to Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to the week of 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold top edge of the event 7. Move the top edge to 1:30pm	The event with name "test" should be on 3/29/2019 at 1:30pm -2pm
			1. Go to the Home Screen (open the application)	

T_RS_ST_3	Toolbar.Re-size.*	Resize will not change the start time to be moved past the end time of the event	2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold the top edge of the event 7. Attempt to move the edge down past the end time	The bottom edge should not move past the end time of the event, stopping the event from being resized to an illegal state
T_RS_ET_1	Toolbar.Re-size.*	Resize can change the end time to later when the bottom edge is dragged down	1. Go to Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold bottom edge of the event 7. Move the bottom edge to 3pm	The event with name "test" should be on 3/29/2019 at 1pm 3pm
T_RS_ET_2	Toolbar.Re-size.*	Resize can change the end time to earlier when the bottom edge is dragged up	1. Go to Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold bottom edge of the event 7. Move the bottom edge to 1:30pm	The event with name "test" should be on 3/29/2019 at 1pm 1:30pm
T_RS_ET_3	Toolbar.Re-size.*	Resize will not change the end time to be moved past the start time of the event	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold the bottom edge of the event 7. Attempt to move the edge up past the start time	The bottom edge should not move past the start time of the event, stopping the event from being resized to an illegal state
T_RS_SCR_1	Toolbar.Re-size.DragEdge	Resize will scroll the page down when the user selects the bottom edge and attempts to drag past the end of the screen being shown until the end of the current day	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold the bottom edge of the event 7. Move the edge down past the end of the bottom of the	The page should scroll until it reaches the end of the day or the user stops
T_RS_SCR_2	Toolbar.Re-size.DragEdge	Resize will scroll the page up when the user selects the top edge and attempts to drag past the top of the screen begin shown until the beginning of the day	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Re-size button on the toolbar 6. Click and hold the top edge of the event 7. Move the edge up past the top of the screen	The page should scroll until it reaches the beginning of the day or the user stops
T_CTS_1	Toolbar.Select.Cut	Cut can be selected and deselected successfully on the weekly view	1. Go to Home Screen (open the application) 2. Switch to weekly view 3. Click the Cut button on the tool bar 4. Click the Cut button on the tool bar again to deselect	The Cut feature should be enabled after step 3 and disabled after step 4
T_CTS_2	Toolbar.Select.Cut	Cut can be selected and deselected successfully on the day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Cut button on the tool bar 4. Click the Cut button on the tool bar again to deselect	The Cut feature should be enabled after step 3 and disabled after step 4
T_CTS_3	Toolbar.Select.Cut	Cut can be selected and deselected successfully on the monthly view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Cut button on the tool bar 4. Click the Cut button on the tool bar again to deselect	The Cut feature should be enabled after step 3 and disabled after step 4
T_CT_1	Toolbar.Cut	Clicking on an event in monthly view with cut selected removes it from the calendar and saves it on the application's "clipboard"	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to March 2019 on the Monthly view 5. Click the Cut button on the toolbar 6. Click the created event	The created event should be removed from the calendar and in the clipboard
			1. Go to the Home Screen (open the application)	

T_CT_2	Toolbar.Cut	Clicking on an event in weekly view with cut selected removes it from the calendar and saves it on the application's "clipboard"	2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Cut button on the toolbar 6. Click the created event	The created event should be removed from the calendar and in the clipboard
T_CT_3	Toolbar.Cut	Clicking on an event in day view with cut selected removes it from the calendar and saves it on the application's "clipboard"	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Cut button on the toolbar 6. Click the created event	The created event should be removed from the calendar and in the clipboard
T_CT_4	Toolbar.Cut	Clicking on an area in the calendar without an event does nothing with cut selected in monthly view	1. Go to the Home Screen (open the application) 2. Switch to monthly view 3. Click the Cut button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
T_CT_5	Toolbar.Cut	Clicking on an area in the calendar without an event does nothing with cut selected in weekly view	1. Go to the Home Screen (open the application) 2. Switch to weekly view 3. Click the Cut button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
T_CT_6	Toolbar.Cut	Clicking on an area in the calendar without an event does nothing with cut selected in day view	1. Go to the Home Screen (open the application) 2. Switch to day view 3. Click the Cut button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
T_CPS_1	Toolbar.Select.Copy	Copy can be selected and deselected successfully on the weekly view	1. Go to Home Screen (open the application) 2. Switch to weekly view 3. Click the Copy button on the tool bar 4. Click the Copy button on the tool bar again to deselect	The Copy feature should be enabled after step 3 and disabled after step 4
T_CPS_2	Toolbar.Select.Copy	Copy can be selected and deselected successfully on the day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Copy button on the tool bar 4. Click the Copy button on the tool bar again to deselect	The Copy feature should be enabled after step 3 and disabled after step 4
T_CPS_3	Toolbar.Select.Copy	Copy can be selected and deselected successfully on the monthly view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Copy button on the tool bar 4. Click the Copy button on the tool bar again to deselect	The Copy feature should be enabled after step 3 and disabled after step 4
T_CP_1	Toolbar.Copy	Clicking on an event in monthly view with Copy selected saves it on the application's "clipboard"	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to March 2019 on the Monthly view 5. Click the Copy button on the toolbar 6. Click the created event	The created event should remain on the calendar and be in the clipboard
T_CP_2	Toolbar.Copy	Clicking on an event in weekly view with Copy selected saves it on the application's "clipboard"	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Copy button on the toolbar 6. Click the created event	The created event should remain on the calendar and be in the clipboard
T_CP_3	Toolbar.Copy	Clicking on an event in day view with Copy selected saves it on the application's "clipboard"	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Copy button on the toolbar 6. Click the created event	The created event should remain on the calendar and be in the clipboard
T_CP_4	Toolbar.Copy	Clicking on an area in the calendar without an event does nothing with Copy selected in monthly view	1. Go to the Home Screen (open the application) 2. Switch to monthly view 3. Click the Copy button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
T_CP_5	Toolbar.Copy	Clicking on an area in the calendar without an event does nothing with Copy selected in weekly view	1. Go to the Home Screen (open the application) 2. Switch to weekly view 3. Click the Copy button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
T_CP_6	Toolbar.Copy	Clicking on an area in the calendar without an event does nothing with Copy selected in day view	1. Go to the Home Screen (open the application) 2. Switch to day view 3. Click the Copy button on the toolbar 4. Click anywhere on the calendar	Nothing happens to the calendar. Clipboard is unchanged
		Pasta can be selected and	1. Go to Home Screen (open the application)	The Pasta feature should be

T_PSS_1	Toolbar.Select.Paste	Paste can be selected and deselected successfully on the weekly view	2. Switch to weekly view 3. Click the Paste button on the tool bar 4. Click the Paste button on the tool bar again to deselect	The Paste feature should be enabled after step 3 and disabled after step 4
T_PSS_2	Toolbar.Select.Paste	Paste can be selected and deselected successfully on the day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Paste button on the tool bar 4. Click the Paste button on the tool bar again to deselect	The Paste feature should be enabled after step 3 and disabled after step 4
T_PSS_3	Toolbar.Select.Paste	Paste can be selected and deselected successfully on the monthly view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Paste button on the tool bar 4. Click the Paste button on the tool bar again to deselect	The Paste feature should be enabled after step 3 and disabled after step 4
T_PSS_4	Toolbar.Select.Paste	Paste can be selected and deselected successfully on the monthly view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Paste button on the tool bar 4. Click the Paste button on the tool bar again to deselect	The Paste feature should be enabled after step 3 and disabled after step 4
T_PS_1	Toolbar.Paste	Clicking on a day in monthly view with Paste selected and an event in the application's "clipboard" will place a new event with the same information except that the day of the event is the selected day	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to March 2019 on the Monthly view 5. Click the Copy button on the toolbar 6. Click the created event 7. Click the Copy button to deselect it and then click Paste 8. Click on the 3/28/2019 cell	A new event that is identical to the 3/29/2019 event should appear on 3/28/2019 except that the date is different
T_PS_2	Toolbar.Paste	Clicking on an hour cell in weekly view with Paste selected and an event in the application's "clipboard" will place a new event with the same information except that the day of the event is the selected day and the start time is the hour of the chosen hour cell and the end time is changed so that it has the original duration of the event	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the weekly view 5. Click the Copy button on the toolbar 6. Click the created event 7. Click the Copy button to deselect it and then click Paste 8. Click on the 3/28/2019 3pm - 4pm cell	A new event that is identical to the 3/29/2019 event should appear on 3/28/2019 at 3pm-4pm except that the date and times are different
T_PS_3	Toolbar.Paste	Clicking on an hour cell in day view with Paste selected and an event in the application's "clipboard" will place a new event with the same information except that the day of the event is the selected day and the start time is the hour of the chosen hour cell and the end time is changed so that it has the original duration of the event	1. Go to the Home Screen (open the application) 2. Create a test event by choosing new event and choosing standard event, then entering "test" for the name and entering 1pm - 2pm 3/29/2019 as the date 3. Submit the event (returning to the home screen) 4. Navigate to 3/29/2019 on the day view 5. Click the Copy button on the toolbar 6. Click the created event 7. Click the Copy button to deselect it and then click Paste 8. Click on the 3pm - 4pm cell	A new event that is identical to the 3/29/2019 event should appear on 3/29/2019 at 3pm-4pm except that the times are different
T_PS_4	Toolbar.Paste	Clicking on an area in the calendar without anything on the "clipboard" does nothing with Paste selected in monthly view	1. Go to Home Screen (open the application) 2. Switch to monthly view 3. Click the Paste button on the tool bar 4. Click on a cell in the calendar	Nothing should happen as the clipboard is empty
T_PS_5	Toolbar.Paste	Clicking on an area in the calendar without anything on the "clipboard" does nothing with Paste selected in weekly view	1. Go to Home Screen (open the application) 2. Switch to weekly view 3. Click the Paste button on the tool bar 4. Click on a cell in the calendar	Nothing should happen as the clipboard is empty
T_PS_6	Toolbar.Paste	Clicking on an area in the calendar without anything on the "clipboard" does nothing with Paste selected in day view	1. Go to Home Screen (open the application) 2. Switch to day view 3. Click the Paste button on the tool bar 4. Click on an hour in the calendar	Nothing should happen as the clipboard is empty
Synchronization				
Note that the following tests should be run in the order specified so that the database gets set up correctly				
Note that the valid email will be "jad245@case.edu" and valid password will be "password".				
T_RE_1	Sync.Login.Register	Filling out the register form with a valid entry should add the user	1. Open the register form while not logged in 2. Enter valid registration information (the valid username and valid password twice)	A new entry in the database should be created with the registered user's information
T_RE_2	Sync.Login.Register	Registering with an invalid email returns an error	1. Open the register form while not logged in 2. Register with an invalid email ("hello") but correct credentials otherwise	No database entry should be created, and an error should be returned to the user
T_RE_3	Sync.Login.Register	Registering with blank password	1. Open the register form while not logged in	No database entry should be created, and an error should be returned to the user

T_LO_0	Sync.Login.register	gives an error	2. Register with valid email but blank password	created, and an error should be returned to the user
T_LO_1	Sync.Login	Filling out and submitting the login form with a valid email and password should log the user in	1. Open login form while not currently logged in 2. Enter a valid email and password	The user should be logged in to that account with the correct email
T_LO_2	Sync.Login	Entering an incorrect email and password gives the user an error	1. Open login form while not currently logged in 2. Enter an invalid email ("jad@cas.ed") and valid password ("password")	A login error should be received
T_LO_3	Sync.Login	Entering an incorrect email and password gives the user an error	1. Open login form while not currently logged in 2. Enter a valid email ("jad245@case.edu") and an invalid password ("passwrld")	A login error should be received
T_SE_2	Sync.Update.Send	Data should be saved even if no events or settings have changed	1. Start with a logged in user with no data 2. Click the upload data button	Local user data should be saved in the database but with no events and default settings
T_SE_1	Sync.Update.Send	Requesting for the user's data to be saved will save the user's data on the server	1. Log in as a valid user 2. Add entries to the calendar ("evt1" at 3/29/2019 1pm-3pm) and make changes to the settings (break time is 10 minutes, max time is 30 minutes, the rest are default) 3. Click the upload data button	All local user data (calendar and settings) should be saved in the database
General Settings				
Note that the new user account will have email "jad245@case.edu" and password "password"				
Note that the other user account will have email "jwc160@case.edu" and password "admin"				
Note that the test event created, it will have the following parameters changed from their defaults: name is "event", description is "fun", start time of 3/29/2019 at 1pm, end time of 3/29/2019 at 2pm				
T_GS_STG_D	Settings.Toolbar.SnapToGrid.Default	Verifies that the SnapToGrid is set to 5 minutes on account creation	1. Create a new user account 2. Create an event 3. Call the Toolbar SnapToGrid function on the Event and check that the event moves in increments of 5 minutes	Events move in increments of 5 minutes when SnapToGrid is enabled
T_GS_STG_1	Settings.Toolbar.SnapToGrid	Verifies that SnapToGrid can be edited in general settings and correctly changes the value	1. Create a new user account 2. Open General Settings and modify SnapToGrid value to 15 minutes 3. Create an event 4. Call the Toolbar SnapToGrid function on the Event and check that the event moves in increments of 15 minutes.	Events move in increments of 15 minutes when SnapToGrid is enabled
T_GS_A_B_D	Settings.Auto.Break.Default	Verifies that Autoscheduler Break is set to 15 minutes on account creation	1. Create a new user account 2. Open General Settings 3. Check that Break value is set to 15 minutes	Break value is set to 15
T_GS_A_B_1	Settings.Auto.Break	Verifies Autoscheduler Break can be edited in the general settings and correctly changes the value and behavior	1. Create a new user account 2. Open General Settings and modify Break value to 30 minutes 3. Create a new Deadline Form 4. Open deadline form and run checks on it	Deadline Form contains a break value of 30 minutes when opened.
T_GS_A_Min_D	Settings.Auto.MinTime.Default	Verifies that Autoscheduler MinTime is set to 30 minutes on account creation	1. Create a new user account 2. Open General Settings 3. Check that MinTime value is set to 30 minutes	MinTime value is set to 30
T_GS_A_Min_1	Settings.Auto.MinTime	Verifies Autoscheduler MinTime can be edited in the general settings and correctly changes the value and behavior	1. Create a new user account 2. Open General Settings and modify MinTime value to 60 minutes 3. Create a new Deadline Form 4. Open deadline form and run checks on it	Deadline Form contains a MinTime value of 60 minutes when opened.
T_GS_A_Max_D	Settings.Auto.MaxTime.Default	Verifies that Autoscheduler MaxTime is set to 120 minutes on account creation	1. Create a new user account 2. Open General Settings 3. Check that MaxTime value is set to 120 minutes	MaxTime value is set to 120
T_GS_A_Max_1	Settings.Auto.MaxTime	Verifies Autoscheduler MaxTime can be edited in the general settings and correctly changes the value and behavior	1. Create a new user account 2. Open General Settings and modify MaxTime value to 180 minutes 3. Create a new Deadline Form 4. Open deadline form and run checks on it	Deadline Form contains a MaxTime value of 180 when opened.
T_GS_A_Min_2	Settings.Auto.MinTime.Constraint	Verifies that Autoscheduler MinTime cannot be set to a higher value than MaxTime	1. Create a new user account 2. Open General Settings and modify MinTime value to 180 minutes 3. Confirm that an error is returned	An Error appears when MinTime is changed to a bad value, and MinTime is set to 30.
T_GS_A_Max_2	Settings.Auto.MaxTime.Constraint	Verifies that Autoscheduler MaxTime cannot be set to a lower value than MinTime	1. Create a new user account 2. Open General Settings and modify MaxTime value to 15 minutes 3. Confirm that an error is returned	An Error appears when MaxTime is changed to a bad value, and MaxTime is set to 120.



T_GS_L_D	Settings.Auto.Language.Default	Verifies that Language is set to English on account creation	1. Create a new user account 2. Open General Settings 3. Check that Language value is set to English	Language value is set to english
T_GS_L_1	Settings.Auto.Language	Verifies Language can be changed and that the language changes when the value is changed.	1. Create a new user account 2. Open General Settings and modify Language to French 3. Return to Calendar View 4. Run checks on the settings and calendar	Calendar view uses French for the months, and General Settings uses French for the setting names.
T_GS_N_D	Settings.Events.Notifications.Type.Default	Verifies that Notification Type is set to Banner on account creation	1. Create a new user account 2. Open General Settings 3. Check that Notification Type value is set to Banner	Notification Type value is set to Banner
T_GS_N_1	Settings.Events.Notifications.Type	Verifies that Notification Type can be changed in and correctly changes value and behavior	1. Create a new user account 2. Open General Settings and modify type to email 3. Create Standard Event Form 4. Open Standard Event Form and run checks on it.	Notification Type value is set to Email in Event Form
T_GS_N_2	Settings.Events.Notifications.Time.Default	Verifies that Notification Time is set to 15 minutes on account creation	1. Create a new user account 2. Open General Settings 3. Check that Notification Time value is set to 15 minutes	Notification Time value is set to 15 minutes
T_GS_N_3	Settings.Events.Notifications.Time	Verifies that Notification Time can be changed and correctly changes value and behavior	1. Create a new user account 2. Open General Settings and modify time to 30 minutes 3. Create Standard Event Form 4. Open Standard Event Form and run checks on it.	Notification Time value is set to 30 minutes in Event Form
T_GS_E_D_D	Settings.Events.Duration.Default	Verifies that duration is set to 60 minutes on account creation	1. Create a new user account 2. Open General Settings 3. Check that Duration value is set to 60 minutes	Duration value is set to 60 minutes
T_GS_E_D_1	Settings.Events.Duration	Verifies that Duration can be changed and correctly changes value and behavior	1. Create a new user account 2. Open General Settings and modify duration to 30 minutes 3. Create Standard Event Form 4. Open Standard Event Form and run checks on it.	Duration value is set to 30 minutes in Event Form
T_GS_E_L_D	Settings.Events.Location.Default	Verifies that location is set to none on account creation	1. Create a new user account 2. Open General Settings 3. Check that Location value is set to none	Location value is set to none
T_GS_E_L_1	Settings.Events.Location	Verifies that Location can be changed and correctly changes value and behavior	1. Create a new user account 2. Open General Settings and modify location to House 3. Create Standard Event Form 4. Open Standard Event Form and run checks on it.	Location value is set to House in Standard Event Form
T_GS_Acc_1	Settings.Account.Login	Verifies that the General Settings menu allows you to login	1. Create a new user account 2. Open General Settings 3. Login to new user account by entering the username and password of it.	User is logged in to new account.
T_GS_Acc_2	Settings.Account.Logout	Verifies that the General Settings menu allows you to logout	1. Create a new user account 2. Open General Settings and login 3. Logout via button. 4. Check that Schedule is now a new empty Schedule.	User is returned to login menu and loses access to Schedule of user that was logged in.
T_GS_Acc_3	Settings.Account.Register	Verifies that the General Settings menu allows you to register	1. Create a new user account 2. Open General Settings 3. Register by inputting a unique identifier and password	A new account is created with the given information and a new schedule is created for this
T_GS_Acc_4	Settings.Account.View.ChangeEmail	Verifies that the General Settings menu allows you to view your account information and change email.	1. Create a new user account 2. Open General Settings and login 3. View account information in general settings. 4. Change email by inputting new email and current password.	Email stored in the account data is changed to the new email.
T_GS_Acc_5	Settings.Account.View.ChangePassword	Verifies that the General Settings menu allows you to view your account information and change password	1. Create a new user account 2. Open General Settings and login 3. View account information in general settings. 4. Change password by inputting new password and current password.	Password tied to the account name is changed to the new password.
T_GS_Acc_6	Settings.Account.View	Verifies that the General Settings menu allows you to view your account information	1. Create a new user account 2. Open General Settings and login 3. View account information in general settings and confirm that email is the email for new account.	Email viewable in account data is the same as email when account is created.
T_GS_Acc_7	Settings.Account.View	Verifies that the General Settings menu allows you to view your account information and that the account information is tied to the correct account.	1. Create a two new user accounts with different emails and settings. 2. Open General Settings and login to account 1 3. Logout and login to account 2 4. Verify that settings and account information are different.	Settings for account 2 are viewable only when logged into account 2 and likewise for account 1.
T_GS_Nav_1	Settings.ReturnToCalendar	Verifies that the General Settings menu allows you to return to the Calendar view which you last left.	1. Create a new user account 2. Open General Settings 3. Return to Calendar View	The view changes to the calendar view, and the calendar view is monthly.