

# Testing Plan

## Team 21

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1. **App; Open executable**
  - a. Severity 1
  - b. Open executable
  - c. App opens to calendar view
2. **Calendar View; See month view**
  - a. Severity 1
  - b. Click the month view button
  - c. Should “zoom out” to large context of all events in the month
3. **Calendar View; See month view 2**
  - a. Severity 1
  - b. Click the month view button while already in month view
  - c. Should not do anything
4. **Calendar View; See multiple months**
  - a. Severity 1
  - b. Click the forward and back month navigation buttons, click on the current month button
  - c. You should be able to see all the months in the semester, and then the button should bring you to the current month
5. **Calendar View; See semester settings**
  - a. Severity 2
  - b. Click the forward and back month navigation buttons, click on the current month button
  - c. You should be able to see all the start and end date for the semester as set by the settings
6. **Calendar View; See week view**
  - a. Severity 1
  - b. Click the week view button
  - c. Should “zoom-in” to the week view UI for the current date selected; unless already in this view
7. **Calendar View; See week view 2**
  - a. Severity 1
  - b. Click the week view button while already in week view
  - c. Should not do anything
8. **Calendar View; See day details**
  - a. Severity 1
  - b. Click the day view button
  - c. Should “zoom-in” to the day view UI for the current date selected; unless already in this view
9. **Calendar View; Scroll week view**
  - a. Severity 1
  - b. While in week view mode click forward and back on the navigation buttons.

- c. You should be able to see all the weeks in the semester; and then the button should bring you to the current week.

#### **10. Calendar View; Change Color**

- a. Severity 2
- b. In the Preferences page for the Calendar, change the specified color
- c. Color change should be logged, and the calendar should use the selected user theme

#### **11. Events; Add an event, view details**

- a. Severity 1
- b. Click the 'Add Event' button. Fill in name="Test event", date="9/24/18", time="4:00p", duration="3 hours". Press Confirm. Click on the event.
- c. Pop-up appears with input fields. Calendar shows event "Test event" on the calendar under Monday, September 24th. When clicked, pop-up that shows all the event details correctly. The database is also updated with the appropriate event.

#### **12. Events; Add an event, cancel**

- a. Severity 1
- b. Click the 'Add Event' button. Press the 'cancel' button on the popup screen.
- c. Should return to the calendar view and not add anything.

#### **13. Events; Add an event, failure 1**

- a. Severity 1
- b. Click the 'Add Event' button, fill in name to be greater than 100 characters
- c. Should not allow you to put more than 100 characters in the field

#### **14. Events; Add an event, failure 2**

- a. Severity 1
- b. Click the 'Add Event' button. Enter a duration less than 0.
- c. Should display a pop up saying an event duration cannot be less than 0

#### **15. Events; Add an event, failure 3**

- a. Severity 1
- b. Click the 'Add Event' button. Enter a duration of 0.
- c. Should display a popup saying the event duration cannot be 0.

#### **16. Events; Add an event, failure 4**

- a. Severity 1
- b. Click the 'Add Event' button. Input an invalid time.
- c. Should display a popup saying the event duration cannot be invalid.

#### **17. Events; Add an event, failure 4**

- a. Severity 1
- b. Click the 'Add Event' button. Input a time of 25 hours. Past the upper limit
- c. Should display a popup saying the event duration cannot be invalid.

#### **18. Events; Add an event, failure 5**

- a. Severity 1
- b. Click the 'Add Event' button. Input a time of above 25 hours.
- c. Should display a popup saying the event duration cannot be invalid.

**19. Events; Edit an Event**

- a. Severity 1
- b. Click 'Edit Event' and change some fields
- c. The event is saved with the modified information in the database, and appears on the calendar

**20. Events; Delete an event**

- a. Severity 1
- b. Click on the event in the calendar, and click 'Delete Event'
- c. The event is deleted from the database and no longer shows up on the calendar.

**21. Events; Repeating Events**

- a. Severity 1
- b. When creating an event, click the repeating option, and select an interval for the event repetition
- c. The selection should be logged in the database entry for that event, and the event should consistently repeat at the specified interval until the event is deleted or repetition is turned off

**22. Events; Repeating Events; Failure 1**

- a. Severity 2
- b. When creating an event, click the repeating option, and select an interval for the event repetition
- c. The event is not repeated in the calendar.

**23. Events; Repeating Events; Failure 2**

- a. Severity 2
- b. When creating an event, click the repeating option, and select an interval for the event repetition
- c. The event is not repeated for the entire time specified.

**24. Homework Planner; Add Homework, view details**

- a. Severity 1
- b. Click 'Add Homework' button. Fill in name="Test homework", due date="9/26/18", time="11:59pm", priority="3", completion time="1 hour". Press Confirm. Click on the homework in calendar view.
- c. Pop-up appears with input fields. Confirmed. Calendar shows homework "Test homework" on the calendar under Wednesday, September 26th. When clicked, pop-up that shows all the event details correctly, as well as option to complete it

**25. Homework Planner; Add homework with incorrect properties**

- a. Severity 2
- b. Click 'Add Homework' button. Fill in name="Test homework", due date="9/26/18", time="11:59pm", priority="3", completion time="0 hour". Press Confirm.
- c. Should display a pop up saying that homework completion time cannot be 0

**26. Homework Planner; Plan out best times to complete**

- a. Severity 2

- b. Start with empty schedule Click 'Add Homework' button. Fill in name="Test homework", due date=(Tomorrow), time="11:59p", priority="3". completion time="1 hour" Press Confirm.  
Select "Plan homework schedule" from menu.
- c. App allocates time to do homework, starting from the current time and ending in 1 hour. A new event is created starting from the current time and lasting for 1 hour.

#### **27. Homework Planner; Plan out time for multiple assignments**

- a. Severity 2
- b. Create schedule that has no free time until tomorrow at noon. Add 3 homework assignments (names: HW1, HW2, HW3), all due tomorrow at midnight. Set them to different priorities, HW1=1, HW2=2, HW3=3, and have each be length of 2, 5, and 1 hours to complete respectively.  
Select "Plan homework schedule" from menu.
- c. App should add 3 events for doing homework. They should start at 12:00pm tomorrow.  
HW3 comes first, with duration 1 hour  
HW2 comes next, duration 5 hours  
HW1 is last, with duration 2 hours

#### **28. Homework Planner; Homework time split into available slots**

- a. Severity 2
- b. Create schedule that has only 3 hours of free time each day. Add homework assignments HW1 and HW2 that both require 10 hours to complete. Set priority for both to 3. Set HW1 to be due in 5 days, HW2 due in 6 days. Select "Plan homework schedule" from menu.
- c. Events for working on homework should be created in the 3 hour free time slot of each day, Starting with HW1 taking up the entire slot. This will continue until the 4th day, where 1 hour is allocated to HW1. The rest of the time will be allocated for HW2. The 3 hour free time slots will have HW2 as an event for 2 more days, then the next day has a final 2 hour event of working on HW2.

#### **29. Homework Planner; Complete Homework, check removal**

- a. Severity 2
- b. Click 'Complete Homework' button on the "Test Homework". Press Confirm.
- c. Pop-up disappears. Calendar should not be able to show homework assignment "Test Homework" anymore.

#### **30. Weekly Report; View current week's commitments**

- a. Severity 2
- b. Click on "Week Report".
- c. Shows screen that displays number of homework assignments, days where homework is due on, free time remaining, wake-up time required for each day, whether workload is greater/lesser than previous week etc.

#### **31. Weekly Report; Test overflow boundary**

- a. Severity 2
- b. Click on "Week Report".

- c. Shows screen that displays number of free time remaining
- d. Add event that spans entire week
- e. Display updated free time should be 0

**32. Weekly Progress; View current week's progress**

- a. Severity 2
- b. Click on "Weekly Progress".
- c. Shows screen that displays percentage of weekly commitments completed.

**33. Notification Editing, Add Notification**

- a. Severity 2
- b. Click on event. Click the edit button to view its details. Click 'Add Notification'. Select time to be notified before event.
- c. Before the given time a popup and noise occurs alerting about the event

**34. Notification Editing, Add Ending Notification**

- a. Severity 2
- b. Click on event. Click the edit button to view its details. Click 'Add Ending Notification'
- c. Pop up disappears and at the end of the event a popup and sound alerts you the allotted time is up.

**35. Notification Editing, Ending Notification Boundary case**

- a. Severity 2
- b. Click on event. Click the edit button to view its details. Click 'Add Ending Notification'
- c. Set ending time before start time
- d. Should respond with error and failure to create ending notification

**36. Notification Editing, Add Notification Repetition**

- a. Severity 2
- b. Click on event. Click the edit button to view its details. Click 'Add Repeat Notification' button.
- c. Reminds every 45 minutes to stay on task

**37. Important Connection Reminder**

- a. Severity 2
- b. Click 'Connections' button. A popup appears to add a string containing a name. Submit the info.
- c. During times specified by the program, events are created to stay in contact with people.

**38. Important Connection Reminder, Failure**

- a. Severity 2
- b. Click 'Connections' button. A popup appears to add a string containing a name. The name exceeds 100 characters.
- c. The field does not add anymore characters

**39. Time sorting**

- a. Severity 2
- b. Click 'Add Homework' button. Give the event a priority. Press recommendation.

- c. Recommends time for event/task to be completed.
- d. Accepts the recommendation and an event is added

**40. Time sorting; Failure 1**

- a. Severity 2
- b. Click 'Add Homework' button. Give the event a priority less than 0. Press recommendation.
- c. Tells the user that is an invalid operation

**41. Time sorting; Failure 2**

- a. Severity 2
- b. Click 'Add Homework' button. Give the event a priority of 0. Press recommendation.
- c. Tells the user that is an invalid operation

**42. Time sorting; Failure 3**

- a. Severity 2
- b. Click 'Add Homework' button. Give the event a priority greater than 10. Press recommendation.
- c. Tells the user that is an invalid operation

**43. Time Sorting; Failure 4**

- a. Severity 2
- b. Click 'Edit Event' button on a Homework event. Give the event a priority  $\leq 0$ . Submit.
- c. Tells the user it is an invalid operation, display correct bounds (0-10)

**44. Time Sorting; Failure 5**

- a. Severity 2
- b. Click 'Edit Event' button on a Homework event. Give the event a priority  $\geq 10$ . Submit.
- c. Tells the user it is an invalid operation.