Test Coverage Plan

The following project modules will be tested as shown:

- ## <u>Activities</u>

  Module(s):

  edu/baylor/csi3471/netime_planner/models/Activity

  edu/baylor/csi3471/netime_planner/models/TimeInterval

  Tests:

  - o Test the conflictsWith method, which returns true if the activity conflicts with the inputted activity.

  - o Test the occursOnDay method, which returns true if the activity occurs on the inputted day.

- ## <u>Math Utilities</u>

  Module(s):

  edu/baylor/csi3471/netime_planner/util/MathUtils

  Tests:

  - o Test the LCM method.

  - o Test the GCD method.

  - o Creating an array of prime values for Test the LCM and GCD methods.

  - o Test whether the prime array has correct values.

- ## <u>String Utilities</u>

  Module(s):

  edu/baylor/csi3471/netime_planner/util/StringUtils

  Tests:

  - o Test the usernameToDataFile method.

- ## <u>Date Utilities</u>

  Module(s):

  edu/baylor/csi3471/netime_planner/util/DateUtils

  Tests:

  - o Test the getNextWeekDay method.

  - o Test the getLastSunday method.

  - o Test the weekDaySet method.

- ## <u>Schedule</u>

  Module(s):

  edu/baylor/csi3471/netime_planner/models/DateTimeInterval

  edu/baylor/csi3471/netime_planner/models/Schedule

  Tests:

  - o Test the makeToDoList method.

  - o Test the addEvent method.

  - o Test the removeEvent method.

o   Test the setWorkTimes method.

- **<u>Password Hashing and Login Functionality</u>**

  Module(s):

  edu/baylor/csi3471/netime_planner/models/LoginVerification

  Tests:

    o   Test the verifyUsernameAndPassword method.

    o   Test the storeUsernameAndPassword method.

- **<u>Loading and Saving XML Files</u>**

  Module(s):

  edu/baylor/csi3471/netime_planner/models/Controller

  Tests:

    o   Test the saveLocally method.

    o   Test the loadLocally method.

- **<u>ViewScheduleTableModel</u>**

  Module(s):

  edu/baylor/csi3471/netime_planner/gui/ViewScheduleTableModel

  Tests:

    o   Test the add method.

    o   Test the remove method.

    o   Test the change method.

- o   Test the getValueAt method.

- o   Test the getRowCount method.

• __ViewScheduleScreen__

Module(s):

edu/baylor/csi3471/netime_planner/gui/ViewScheduleScreen

Tests:

- o   Test the showTodoList method.

- o   Test the share method.

- o   Test the calculateFreeTime method.

- o   Test the setWorkTimes method.

- o   Test the addActivity method.

- o   Test the addDeadline method.

- o   Test the save method.

• __CreateActivityForm__

Module(s):

edu/baylor/csi3471/netime_planner/gui/CreateActivityForm

Tests:

- o   Test the createValue method.

• __CreateDeadlineForm__

Module(s):

edu/baylor/csi3471/netime_planner/gui/CreateDeadlineForm

Tests:

- o Test the createValue method.