Test Coverage Plan

***The following project modules will be tested as shown:***

* **Activities**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/models/Activity**

**edu/baylor/csi3471/netime\_planner/models/TimeInterval**

**Tests:**

* + **Test the conflictsWith method, which returns true if the activity conflicts with the inputted activity.**
  + **Test the occursOnDay method, which returns true if the activity occurs on the inputted day.**
* **Math Utilities**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/util/MathUtils**

**Tests:**

* + **Test the LCM method.**
  + **Test the GCD method.**
  + **Creating an array of prime values for Test the LCM and GCD methods.**
  + **Test whether the prime array has correct values.**
* **String Utilities**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/util/StringUtils**

**Tests:**

* + **Test the usernameToDataFile method.**
* **Date Utilities**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/util/DateUtils**

**Tests:**

* + **Test the getNextWeekDay method.**
  + **Test the getLastSunday method.**
  + **Test the weekDaySet method.**
* **Schedule**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/models/DateTimeInterval**

**edu/baylor/csi3471/netime\_planner/models/Schedule**

**Tests:**

* + **Test the makeToDoList method.**
  + **Test the addEvent method.**
  + **Test the removeEvent method.**
  + **Test the setWorkTimes method.**
* **Password Hashing and Login Functionality**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/models/LoginVerification**

**Tests:**

* + **Test the verifyUsernameAndPassword method.**
  + **Test the storeUsernameAndPassword method.**
* **Loading and Saving XML Files**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/models/Controller**

**Tests:**

* + **Test the saveLocally method.**
  + **Test the loadLocally method.**
* **ViewScheduleTableModel**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/gui/ViewScheduleTableModel**

**Tests:**

* + **Test the add method.**
  + **Test the remove method.**
  + **Test the change method.**
  + **Test the getValueAt method.**
  + **Test the getRowCount method.**
* **ViewScheduleScreen**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/gui/ViewScheduleScreen**

**Tests:**

* + **Test the showTodoList method.**
  + **Test the share method.**
  + **Test the calculateFreeTime method.**
  + **Test the setWorkTimes method.**
  + **Test the addActivity method.**
  + **Test the addDeadline method.**
  + **Test the save method.**
* **CreateActivityForm**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/gui/CreateActivityForm**

**Tests:**

* + **Test the createValue method.**
* **CreateDeadlineForm**

**Module(s):**

**edu/baylor/csi3471/netime\_planner/gui/CreateDeadlineForm**

**Tests:**

* + **Test the createValue method.**