**Examination candidate number: Y1041916**

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| Test Name | Test Goal | Expected Outcome |
| StudyPlannerBasicTest.  testLevelOneException()  (Level 1) | Test addTopic and deleteTopic methods. Make sure topic’s list is not null before calling method generateStudyPlan(). | Client code creates two different topics and deletes them successful. But after deleting, client tries to generate a study plan, StudyPlannerException should be thrown. |
| StudyPlannerBasicTest.  testStudyAndBreakLength ()  (Level 1) | Verify that the default study length is 60 min and break length is 0. In addition, set study and break length, test them as well. | The study-block using a fixed block length and break length. When break length is 0, there no gap between study blocks. If break length is more than 0, there should be exactly that much gap between study blocks. |
| StudyPlannerBasicTest.  testGeneratePlan()  (Level 1) | Check that every topic has been added to the planner and all topics have been fully studied. | With default block and break length, topics are fully studied. When set block and break length, topics are fully studied and maybe larger than initial studying length. |
| StudyPlannerBasicTest.  testShortStudyBlock()  (Level 2) | Make sure a short study block will be set when there is no time left in the day or in a topic. | No enough time left in the day, a short study block will be set, but not less than minimum block length. The left duration of a topic below the minimum length, the block set the minimum length anyway. |
| StudyPlannerBasicTest.  testOtherTypeEventTarget()  (Level 2) | Check addCalendarEvent(), getCalendarEvent() and setTargetEvent() methods. Make sure target is only valid for exam and essay calendar evnets. | When client code tries to supply another type of event rather than exam or essay, StudyPlannerException will be thrown. |
| StudyPlannerBasicTest.  testEventAndBreak()  (Level 2) | Verify that no break scheduled after events and if there is no enough time for whole break length at the end of the day, schedule a short break. | When add events, set non-zero break length and then generate a study plan, no breaks will be scheduled after events. In addition, at the end of the day, if no enough time for whole breaks length, a short break will be set. |
| StudyPlannerGUITest.  testActionOfCreateTopic ()  (Level 3) | Simulate the user’s action for creating a new topic. | Input “APRC” and 720 in the JTextFields as the new topic’s name and duration respectively. Then click JButton for adding the new topic.  A new topic (“APRC”, 720) has been added in the topics’ list. |
| StudyPlannerGUITest.  testActionOfDeleteTopic()  (Level 3) | Simulate the user’s action for deleting a selected topic. | The first item of the topics’ JList has been selected. Then click JButton for deleting the selected one.  The selected topic has been deleted from the topics’ list. |
| StudyPlannerGUITest.  testActionOfCreatePlan()  (Level 3) | Simulate the user’s action for generating the study plan | Click the button of “plan” to generate a study plan. Every study block in the plan list will be added to the plan JList. |