# **StudyBuddyApp Test Plan**

## **Student(int id, string name) – [Test\_Constructor]**

| Input: 1, "Alice"  State: N/A | Output: N/A  State:  app.students == {s1}  s1.id == 1 s1.name == "Alice"  s1.availability == {} s1.courses == {} |
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## **addAvailability(TimeSlot slot) – [Test\_addAvailability\_MonMorning]**

| Input: "Mon", "10:00", "12:00"  State:  s1.availability.size == 0  s1.availability[0] == {} | Output: N/A  State:  app.students == {s1}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 1 s1.availability[0] == {day="Mon", start="10:00", end="12:00"} |
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## **removeAvailability(int index) – [Test\_removeAvailability\_index0]**

| Input: 0  State:  s1.availability.size == 1  s1.availability == [{"Mon", "10:00", "12:00"}] | Output: N/A  State:  app.students == {s1}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 0 s1.availability[0] == {} |
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## **StudyBuddyApp::addStudent(int id, string name) – [Test\_addStudent\_Bob]**

| Input: 2, "Bob"  State: app.students = {s1} | Output: N/A  State: app.students == {s1, s2}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 0 s1.availability[0] == {}  s2.id == 2  s2.name == “Bob”  s2.courses == {}  s2.availability.size == 0  s2.availability[0] == {} |
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## **Student::addCourse(string courseName) – [Test\_addCourse\_CPSC1010]**

| Input: "CPSC1010"  State: s2.courses == {} | Output: N/A  State: app.students == {s1, s2}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 0 s1.availability[0] == {}  s2.id == 2  s2.name == “Bob”  s2.courses == {CPSC1010}  s2.availability.size == 0  s2.availability[0] == {} |
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## **TimeSlot::overlaps(TimeSlot other) – [Test\_overlap\_sameDay]**

| Input: t1 = TimeSlot("Mon", "09:00", "11:00")  t2 = TimeSlot("Mon", "10:00", "12:00")  State: N/A | Output: t1.overlaps(t2) == true  State:  app.students == {s1, s2}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 0 s1.availability[0] == {}  s2.id == 2  s2.name == “Bob”  s2.courses == {CPSC1010}  s2.availability.size == 0  s2.availability[0] == {} |
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## **TimeSlot::overlaps(TimeSlot other) – [Test\_overlap\_differentDay]**

| Input: t1 = TimeSlot("Mon", "09:00", "11:00")  t3 = TimeSlot("Tue", "09:00", "11:00")  State: N/A | Output: t1.overlaps(t3) == false  State:  app.students == {s1, s2}  s1.id == 1  s1.name == "Alice"  s1.courses == {}  s1.availability.size == 0 s1.availability[0] == {}  s2.id == 2  s2.name == “Bob”  s2.courses == {CPSC1010}  s2.availability.size == 0  s2.availability[0] == {} |
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