GROUP 10: MILESTONE 3

Sequence Diagrams

CampusCentral

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SD: Add a planned course

«Subsystem»
TextUI

«Subsystem»
Course Schedule

:Student

planCourse(:CourseAttempt) : boolean

alt

[courseAttempt is NULL]

false

[courseAttempt is not NULL]

planCourse(:CourseAttempt) : boolean

alreadyHasCourseAttempt(:CourseAttempt)

alt

[courseAttempt

exists already]

false

[courseAttempt

doesn't already exist]

planCourse(:CourseAttempt) : boolean

addPlannedCourse(:CourseAttempt)

true

SD: Remove a planned course

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:Student

removePlannedCourse(fullCourseCode : String, :CourseCatalog) :
boolean

alt

[No matching course found]

false

removePlannedCourse(fullCourseCode : String, :CourseCatalog) :
boolean

[Matching course code found]

alt

[Matching course not planned]

false

[Matching course planned]

removePlannedCourse(fullCourseCode : String, :CourseCatalog) :
boolean

removeCourse(fullCourseCode: String)

true

SD: Register for a planned course

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:Student

registerCourse(String fullCourseCode, CourseCatalog courseCatalog)
: boolean

alt

[No matching course found]

false

registerCourse(String fullCourseCode, CourseCatalog courseCatalog)
: boolean

[Matching course code found]

alt

[Matching course not planned]

false

registerCourse(String fullCourseCode, CourseCatalog courseCatalog)
: boolean

[Matching course is planned]

changeCourseToRegistered()

true

SD: Drop a registered course

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:Student

dropCourse(String fullCourseCode, CourseCatalog courseCatalog) :
boolean

alt

[No matching course found]

false

dropCourse(String fullCourseCode, CourseCatalog courseCatalog) :
boolean

[Matching course code found]

alt

[Matching course not registered]

false

dropCourse(String fullCourseCode, CourseCatalog courseCatalog) :
boolean

[Matching course is registered]

removeCourse(fullCourseCode: String)

true

SD: View future courses

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:AcademicAssociate

getFutureCourses(currentSemester : String) : Arraylist<CourseAttempt>

alt

[No future courses]

NULL

[Future courses found]

getFutureCourses(currentSemester : String) : Arraylist<CourseAttempt>

futureCourses : Arraylist<CourseAttempt>

printFutureCourses(futureCourses : Arraylist<CourseAttempt>)

SD: View current courses

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:AcademicAssociate

getCurrentCourses(currentSemester : String) : Arraylist<CourseAttempt>

alt

[No current courses]

NULL

[Current courses found]

getCurrentCourses(currentSemester : String) : Arraylist<CourseAttempt>

currentCourses : Arraylist<CourseAttempt>

printCurrentCourses(currentCourses : Arraylist<CourseAttempt>)

SD: View past courses

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:AcademicAssociate

getPastCourses(currentSemester : String) : Arraylist<CourseAttempt>

alt

[No past courses]

NULL

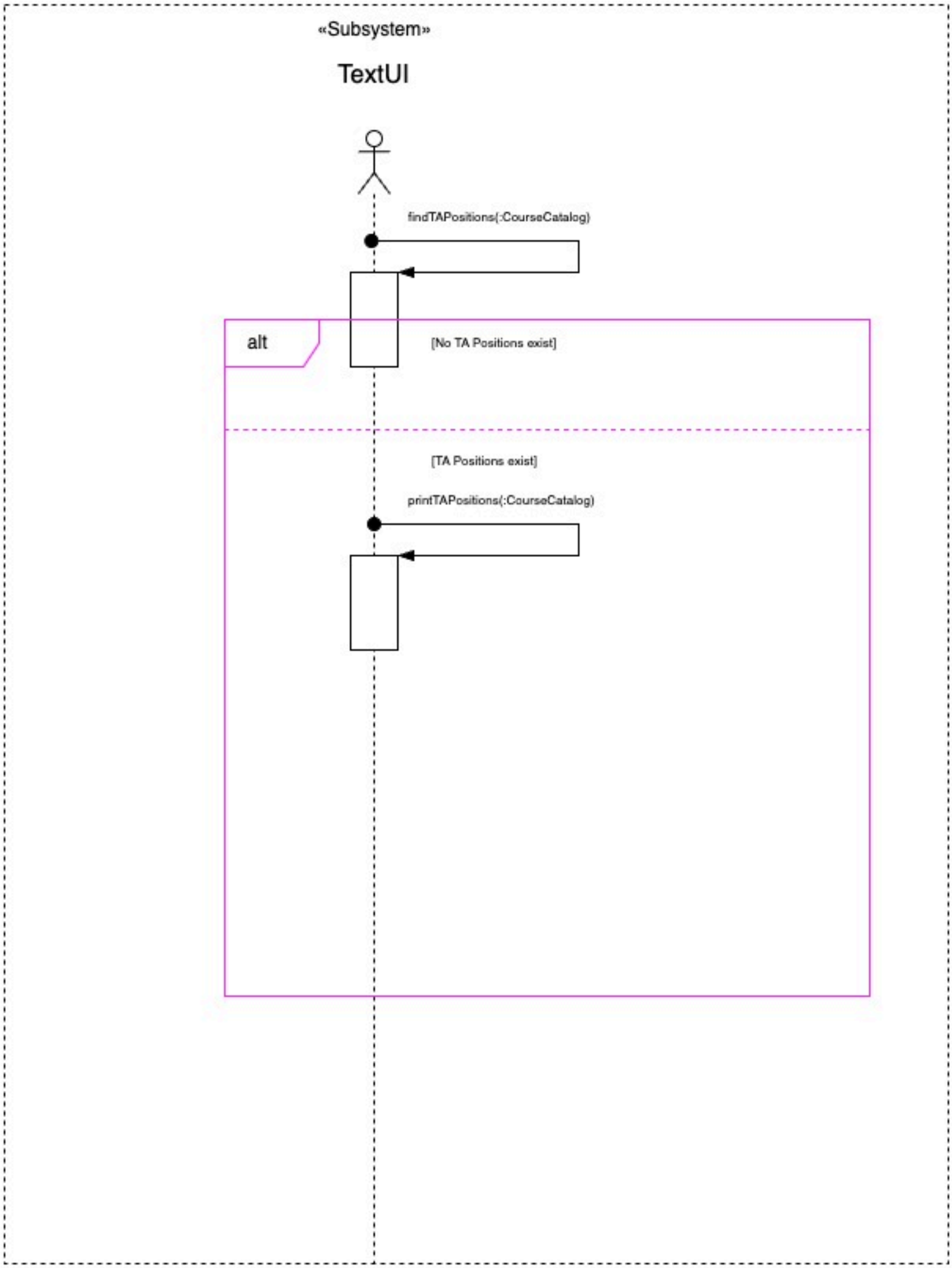
[Past courses found]

getPastCourses(currentSemester : String) : Arraylist<CourseAttempt>

pastCourses : Arraylist<CourseAttempt>

printPastCourses(pastCourses : Arraylist<CourseAttempt>)

SD: View TA positions



SD: Review TA applications

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:Professor

:CourseOffering

retrieveCoursesWithTAApplicants() : Arraylist<CourseAttempt>

alt

[No course attempts with TAs]

NULL

[Course attempts with TAs]

retrieveCoursesWithTAApplicants() : Arraylist<CourseAttempt>

coursesWithTAApplicants : Arraylist<CourseAttempt>

appoveTAApplicant(studentID : int) : boolean

alt

[Invalid studentID]

false

[Valid studentID]

appoveTAApplicant(studentID : int) : boolean

true

SD: View classlist for course

«Subsystem»
Course Schedule

«Subsystem»
TextUI

:CourseCatalog

:CourseOffering

:Student

getClasslist(fullCourseCode : String) : String

alt

[Invalid course code]

NULL

[Valid course code]

getClasslist(fullCourseCode : String) : String

getClasslistStrings() : String

loop

[1, numStudents]

toString() : String

classListString : String

classList : String

print(classList : String)