Appendix IV

These are the full and final UML diagrams:

Student

firstName: String
middleName: String
lastName: String
address: String
dateOfBirth: String
guardianFirstName: String
guardianLastName: String

age: int

program: String postalCode: String language: String countryOfBirth: String

attendanceOfStudent: Attendance progressOfStudent: StudentProgress

date: ArrayList<String>
guardianOneFirstName: String
guardianOneLastName: String
guardianOnePhoneNumber: String
guardianOneEmail: String

guardianOneCallAtWork: Boolean guardianTwoFirstName: String guardianTwoLastName: String

guardianTwoPhoneNumber: String
guardianTwoPhoneNumber: String
guardianTwoCallAtWork: Boolean
emergencyContactOneFirstName: String
emergencyContactOneRelationship: String
emergencyContactOneRelationship: String
emergencyContactOneCellNumber: String
emergencyContactTwoFirstName: String
emergencyContactTwoLastName: String
emergencyContactTwoRelationship: String
emergencyContactTwoRelationship: String
emergencyContactTwoHomeNumber: String
emergencyContactTwoOcellNumber: String

healthFactorOne: String

healthFactorOneLifeThreatening: Boolean healthFactorOnePlanOfCareRequired: Boolean healthFactorOneMedicationsRequired: Boolean

healthFactorTwo: String

healthFactorTwoLifeThreatening: Boolean healthFactorTwoPlanOfCareRequired: Boolean healthFactorTwoMedicationsRequired: Boolean

healthFactorThree: String

healthFactorThreeLifeThreatening: Boolean healthFactorThreePlanOfCareRequired: Boolean healthFactorThreeMedicationsRequired: Boolean

tempReason: String tempReason2: String aDone: boolean cDone: boolean

getFirstName(): String

setFirstName(firstName: String): void

getMiddleName(): String

setMiddleName(middleName: String): void

getLastName(): String

setLastName(lastName: String): void

getAddress(): String

setAddress(homeAddress: String): void

getDateOfBirth(): String

```
setDateOfBirth(dateOfBirth: String): void
getAge(): int
setAge(age: int): void
getPostalCode(): String
setPostalCode(postalCode: String): void
getLanguage(): String
setLanguage(language; String): void
getAttendance(): ArrayList <Boolean>
addAttendance(pOrA: Boolean): void
getReasonAbsent(): ArrayList <String>
addReasonAbsent(reason: String): void
getCovidScreening(): ArrayList <Boolean>
addCovidScreening(screening: Boolean): void
getReasonCovidScreening (): ArrayList <String>
addReasonCovidScreening(reason2: String): void
getProgramChosen(): String
setProgramChosen(programChosen: String): void
getSabaqDoneOrNot(): Boolean [ ]
setSabaqDoneOrNot(sabaqDoneOrNot: Boolean[]): void
getTodaySabaqDoneOrNot(): Boolean
getSaparaNextFill(): int
getDourNextFill(): int
setTodaySabaqDoneOrNot(todaySabaqDoneOrNot: Boolean): void
getLinesMemorized(): int []
setLinesMemorized(linesMemorized; int []): void
getTodayLinesMemorized(): int
setTodayLinesMemorized(todayLinesMemorized: int): void
getMistakesMade(): int []
setMistakesMade(mistakesMade: int []): void
getNumOfSaparasDoneMonth(): Boolean []
setNumOfSaparasDoneMonth(numOfSaparasDoneMonth: Boolean[]): void
isTodaySaparaFinished(): Boolean
setTodaySaparaFinished(todaySaparaFinished: Boolean): void
getNameOfSaparasDoneMonth(): int []
setTotalSaparasDone(totalSaparasDone: int): void
getTodaySaparaDone(): int
setTodaySaparaDone(todaySaparaDone: int): void
getSaparasDone(): String
addSaparasDone(saparasDone: int): void
setSaparasDone(saparasDone: String): void
getCurrentSaparaMemorizing(): int
setCurrentSaparaMemorizing(currentSaparaMemorizing: int): void
getDourDoneOrNot(): Boolean[]
setDourDoneOrNot(dourDoneOrNot: Boolean[]): void
isTodayDourDoneOrNot(): Boolean
setTodayDourDoneOrNot(todayDourDoneOrNot; Boolean): void
getQuarterNumDoneMonth(): int []
setQuarterNumDoneMonth(quarterNumDoneMonth: int[]): void
getTodayQuartersDone(); int
setTodayQuartersDone(todayQuartersDone: int): void
getCurrentQuarter(): int
setCurrentQuarter(currentQuarter: int): void
getNumOfDourSaparasDoneMonth(): Boolean []
NumOfDourSaparasDoneMonth(numOfDourSaparasDoneMonth: Boolean[]): void
isTodayDourSaparaDoneOrNot(): Boolean
setTodayDourSaparaDoneOrNot(todayDourSaparaDoneOrNot: Boolean): void
getTodayDourSaparaDone(): int
setTodayDourSaparaDone(todayDourSaparaDone: int): void
getDourCurrentSapara(): int
setDourCurrentSapara(dourCurrentSapara: int): void
getLastRecord(): String
setLastRecord(lastRecord: String): void
getDate(): ArrayList<String>
addDate(dates: String): void
setDate(date1: ArrayList <String>): void
getGuardianOneFirstName(): String
setGuardianOneFirstName(quardianOneFirstName; String): void
getGuardianOneLastName(): String
setGuardianOneLastName(guardianOneLastName: String): void
```

```
getGuardianOnePhoneNumber(): String
setGuardianOnePhoneNumber(guardianOnePhoneNumber: String): void
getGuardianOneEmail(): String
setGuardianOneEmail(guardianOneEmail: String): void
isGuardianOneCallAtWork(): Boolean
setGuardianOneCallAtWork(guardianOneCallAtWork: Boolean): void
getGuardianTwoFirstName(): String
setGuardianTwoFirstName(guardianTwoFirstName: String): void
getGuardianTwoPhoneNumber(): String
setGuardianTwoEmail(guardianTwoEmail: String): void
isGuardianTwoCallAtWork(): Boolean
setGuardianTwoCallAtWork(guardianTwoCallAtWork: Boolean): void
getEmergencyContactOneFirstName(): String
getEmergencyContactOneHomeNumber(): String
setEmergencyContactOneHomeNumber(emergencyContactOneHomeNumber: String): void
getEmergencyContactTwoFirstName(): String
setEmergencyContactTwoFirstName(emergencyContactTwoFirstName: String): void
getEmergencyContactTwoHomeNumber(): String
setEmergencyContactTwoHomeNumber (emergencyContactTwoHomeNumber: String): void
getHealthFactorOne(): String
setHealthFactorOne(healthFactorOne: String): void
isHealthFactorOneLifeThreatening(): Boolean
setHealthFactorOneLifeThreatening(healthFactorOneLifeThreatening: Boolean): void
getHealthFactorTwo(): String
setHealthFactorTwo(healthFactorTwo: String): void
isHealthFactorTwoLifeThreatening(): Boolean
setHealthFactorTwoLifeThreatening(healthFactorTwoLifeThreatening: Boolean): void
getHealthFactorThree(): String
setHealthFactorThree(healthFactorThree: String): void
isHealthFactorThreeLifeThreatening(): Boolean
setHealthFactorThreeLifeThreatening(healthFactorThreeLifeThreatening: Boolean ): void
getApplicable(): String
                            //required for GUI
getTempAttendance(): boolean
setTempAttendance(temp: boolean): void
getTempScreening(): boolean
setTempScreening(temp1: boolean)
setTempReason(temp: String): void
getTempReason(): String
setTempReason2(temp: String): void
getTempReason2(): String
```

Student Progress

```
programChosen: String; progressOfStudentDaily: String;
progressOfStudentMonthly: String;
lastRecord: String;
sabaqDoneOrNot: Boolean[];
todaySabaqDoneOrNot: Boolean;
linesMemorized: int[];
todayLinesMemorized: int;
mistakesMade: int[];
todayMistakesMade: int;
numOfSaparasDoneMonth: Boolean[];
todaySaparaFinished: Boolean;
nameOfSaparasDoneMonth: int[];
totalSaparasDone: int;
todaySaparaDone: int;
saparasDone: String;
currentSaparaMemorizing: int;
saparaNextFill: int;
getProgramChosen(): String
setProgramChosen(programChosen: String): void
getSabaqDoneOrNot(): Boolean[]
setSabaqDoneOrNot(sabaqDoneOrNot: Boolean[]): void
getTodaySabaqDoneOrNot(): Boolean
setTodaySabaqDoneOrNot(todaySabaqDoneOrNot: Boolean): void
```

```
getLinesMemorized(): int[]
setLinesMemorized(linesMemorized: int[]): void
getTodayLinesMemorized(): int
setTodayLinesMemorized(todayLinesMemorized: int): void
getMistakesMade(): int []
setMistakesMade(mistakesMade: int []): void
getTodayMistakesMade(): int
setTodayMistakesMade(todayMistakesMade: int): void
getNumOfSaparasDoneMonth(): Boolean[]
setNumOfSaparasDoneMonth( numOfSaparasDoneMonth: Boolean[]): isTodaySaparaFinished(): Boolean
setTodaySaparaFinished(todaySaparaFinished: Boolean): void
getNameOfSaparasDoneMonth(): int []
setNameOfSaparasDoneMonth(nameOfSaparasDoneMonth; int []): void
getTotalSaparasDone(): int
setTotalSaparasDone(totalSaparasDone: int): void
getTodaySaparaDone(): int
setTodaySaparaDone(todaySaparaDone: int): void
getSaparasDone(): String
addSaparasDone(saparasDoneNow: int): void
getCurrentSaparaMemorizing(): int
setCurrentSaparaMemorizing(currentSaparaMemorizing: int): void
getTodaySaparaDone(): int
setTodaySaparaDone(todaySaparaDone: int): void
getSaparasDone(): String
addSaparasDone(saparasDoneNow: int): void
getCurrentSaparaMemorizing(): int
setCurrentSaparaMemorizing(int currentSaparaMemorizing): void
getDourDoneOrNot(): Boolean[]
setDourDoneOrNot(dourDoneOrNot: Boolean[]): void
isTodayDourDoneOrNot(): Boolean
setTodayDourDoneOrNot(todayDourDoneOrNot: Boolean ): void
getQuarterNumDoneMonth(): int []
setQuarterNumDoneMonth(quarterNumDoneMonth: int []): void
getTodayQuartersDone(): int
setTodayQuartersDone(todayQuartersDone: int): void
getCurrentQuarter():int
setCurrentQuarter(currentQuarter: int): void
getNumOfDourSaparasDoneMonth(): Boolean[]
setNumOfDourSaparasDoneMonth(numOfDourSaparasDoneMonth: Boolean[]): void
isTodayDourSaparaDoneOrNot(): Boolean
setTodayDourSaparaDoneOrNot(todayDourSaparaDoneOrNot: Boolean): void
                                                                                     getTodayDourSaparaDone(): int
setTodayDourSaparaDone(todayDourSaparaDone: int): void
getDourCurrentSapara(): int
setDourCurrentSapara(dourCurrentSapara: int): void
                                                         setOpenProgramChosen(programChosen: String): void
setOpenProgressOfStudentDaily(progressOfStudentDaily: String): void
setOpenProgressOfStudentMonthly(progressOfStudentMonthly: String): void
setOpenSabaqDoneOrNot(sabaqDoneOrNot: Boolean[]): void
setOpenTodaySabaqDoneOrNot(todaySabaqDoneOrNot: Boolean): void
setOpenLinesMemorized(linesMemorized: int[]): void
setOpenTodayLinesMemorized(todayLinesMemorized: int): void
setOpenMistakesMade(mistakesMade: int[]): void
setOpenTodayMistakesMade(todayMistakesMade: int): void
set Open Num Of Saparas Done Month (num Of Saparas Done Month: Boolean \cite{Month of Saparas Done Month}): void
setOpenTodaySaparaFinished(todaySaparaFinished: Boolean): void
setOpenNameOfSaparasDoneMonth(nameOfSaparasDoneMonth: int[]): void
setOpenTotalSaparasDone(totalSaparasDone: int): void
set Open Today Sapara Done (today Sapara Done: int): void\\
setOpenSaparasDone(saparasDone: int[]) void
setOpenTodayDourDoneOrNot(todayDourDoneOrNot: Boolean): void
setOpenQuarterNumDoneMonth(quarterNumDoneMonth; nt[]): void
setOpenTodayDourSaparaDoneOrNot(todayDourSaparaDoneOrNot; Boolean): void
setOpenDourNextFill(dourNextFill: int): void
timesNotDone(array: Boolean []): int
timesDone(array: Boolean []): int
findAverage(array: int []): int
findTotal(array: int []): int
findName(array: int []): String
getLastRecord(): String
setLastRecord(lastRecord: String): void
```

getSaparaNextFill(): int getDourNextFill(): int