Schedule Management System

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# **Chapter 1**

# **Class Index**

## 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

lesson	
	Class used to represent a lesson from a course
lessontin	ne
	Class used to represent time
Student	
	Class used to represent a student

2 Class Index

# Chapter 2

# File Index

## 2.1 File List

Here is a list of all documented files with brief descriptions:

src/AddRequest.h .						 			 											 		15
src/ControlUnit.h .						 			 													15
src/lesson.h						 			 													17
src/lessontime.h						 			 													18
src/Menu.h						 			 													19
src/RemoveRequest.h	า					 			 											 		20
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src/student.h																						
src/studentGroup.h						 			 											 		22
src/SwitchRequest.h						 			 													23

File Index

## **Chapter 3**

## **Class Documentation**

#### 3.1 lesson Class Reference

Class used to represent a lesson from a course.

#include <lesson.h>

#### **Public Member Functions**

• lesson (const std::string &ucCode, const std::string &studentGroup, const std::string &weekday, double startTime, double duration, const std::string &type)

Parameterized Constructor.

• const std::string & getWeekday () const

Gets the lesson's weekday.

· const lessontime & getStartTime () const

Gets the time the lesson starts.

• const lessontime & getDuration () const

Gets the duration of the lesson.

const lessontime & getEndTime () const

Gets the time the lesson ends.

• const string & getUccode () const

Gets the course code of the lesson.

const std::string & getType () const

Gets the type of the lesson.

#### 3.1.1 Detailed Description

Class used to represent a lesson from a course.

#### 3.1.2 Constructor & Destructor Documentation

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#### 3.1.2.1 lesson()

Parameterized Constructor.

#### **Parameters**

ucCode	String representing the course.					
studentGroup	String representing the class.					
weekday	String representing the weekday.					
startTime	The time the lesson starts.					
duration	The duration of the lesson.					
type	The type of the lesson.					

#### 3.1.3 Member Function Documentation

#### 3.1.3.1 getDuration()

```
const lessontime & lesson::getDuration ( ) const
```

Gets the duration of the lesson.

#### Returns

The duration of the lesson.

## 3.1.3.2 getEndTime()

```
const lessontime & lesson::getEndTime ( ) const
```

Gets the time the lesson ends.

#### Returns

The time the lesson ends.

3.1 lesson Class Reference 7

#### 3.1.3.3 getStartTime()

```
const lessontime & lesson::getStartTime ( ) const
```

Gets the time the lesson starts.

Returns

The time the lesson starts.

## 3.1.3.4 getType()

```
const std::string & lesson::getType ( ) const
```

Gets the type of the lesson.

Returns

A string representing the type of the lesson.

#### 3.1.3.5 getUccode()

```
const std::string & lesson::getUccode ( ) const
```

Gets the course code of the lesson.

Returns

A string representing the course code.

### 3.1.3.6 getWeekday()

```
const std::string & lesson::getWeekday ( ) const
```

Gets the lesson's weekday.

Returns

A string representing the weekday.

The documentation for this class was generated from the following files:

- src/lesson.h
- src/lesson.cpp

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## 3.2 lessontime Class Reference

Class used to represent time.

```
#include <lessontime.h>
```

#### **Public Member Functions**

• lessontime (double time)

Copy constructor.

• lessontime ()

Default constructor (00:00)

• lessontime (int hour, int minutes)

Parameterized constructor.

• string displayHourFormat () const

Converts the time to a string.

• int getHour () const

Hour getter.

• int getMinute () const

Minutes getter.

## 3.2.1 Detailed Description

Class used to represent time.

#### 3.2.2 Constructor & Destructor Documentation

## 3.2.2.1 lessontime() [1/2]

Copy constructor.

**Parameters** 

time

#### 3.2.2.2 lessontime() [2/2]

```
{\tt lessontime::} {\tt lessontime} \ (
```

```
int hour,
int minutes )
```

Parameterized constructor.

#### **Parameters**

hour	
minutes	

#### 3.2.3 Member Function Documentation

#### 3.2.3.1 displayHourFormat()

```
std::string lessontime::displayHourFormat ( ) const
```

Converts the time to a string.

#### Returns

A string representing the time.

#### 3.2.3.2 getHour()

```
int lessontime::getHour ( ) const
```

Hour getter.

#### Returns

An integer representing the hour.

#### 3.2.3.3 getMinute()

```
int lessontime::getMinute ( ) const
```

Minutes getter.

#### Returns

An integer representing the minutes.

The documentation for this class was generated from the following files:

- src/lessontime.h
- src/lessontime.cpp

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#### 3.3 Student Class Reference

Class used to represent a student.

```
#include <student.h>
```

#### **Public Member Functions**

• Student ()=default

Default constructor.

Student (string studentId, string name, set< studentGroup > group)

Parameterized constructor.

• std::string getStudentID () const

Gets the student ID.

set< studentGroup > getStudentGroups () const

Gets all the classes the student belongs to.

• std::string getName () const

Gets the name of the student.

void setName (const std::string &newName)

Sets the newName of the student.

void setStudentID (const std::string &studentId)

Sets the student ID.

void addStudentGroup (const studentGroup &GroupToAdd)

Adds a new class to the student.

void removeGroup (const studentGroup &GroupToRemove)

Removes a class from the student.

bool isInUC (const string &uc) const

Detects if the student is enrolled in a certain course.

bool isInClass (const string &ucCode, const string &studentGroup) const

Detects if the student is enrolled in a certain class from a couse.

#### 3.3.1 Detailed Description

Class used to represent a student.

#### 3.3.2 Constructor & Destructor Documentation

#### 3.3.2.1 Student()

Parameterized constructor.

#### **Parameters**

student← Id	String representing the student ID.
name	String representing the name of the student.
group	A set with the classes the student has.

#### 3.3.3 Member Function Documentation

#### 3.3.3.1 addStudentGroup()

```
void Student::addStudentGroup ( {\tt const\ studentGroup\ \&\ \textit{GroupToAdd}\ )}
```

Adds a new class to the student.

#### **Parameters**

GroupToAdd

#### 3.3.3.2 getName()

```
string Student::getName ( ) const
```

Gets the name of the student.

#### Returns

A string representing the name of the student.

#### 3.3.3.3 getStudentGroups()

```
set< studentGroup > Student::getStudentGroups ( ) const
```

Gets all the classes the student belongs to.

#### Returns

A set of classes that the student belongs to.

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## 3.3.3.4 getStudentID()

```
string Student::getStudentID ( ) const
```

Gets the student ID.

Returns

A string representing the student ID.

#### 3.3.3.5 isInClass()

Detects if the student is enrolled in a certain class from a couse.

#### **Parameters**

ucCode	String representing a couse.						
studentGroup	String representing a class.						

#### Returns

Returns true if the student is enrolled in a certain class form a course.

#### 3.3.3.6 isInUC()

```
bool Student::isInUC ( {\tt const\ string\ \&\ \it uc\ )\ const}
```

Detects if the student is enrolled in a certain course.

#### **Parameters**

```
uc String representing a course.
```

#### Returns

Returns true if the student is enrolled in a certain course.

#### 3.3.3.7 removeGroup()

Removes a class from the student.

**Parameters** 

GroupToRemove

#### 3.3.3.8 setName()

Sets the newName of the student.

**Parameters** 

newName | A string representing the newName of the student

#### 3.3.3.9 setStudentID()

Sets the student ID.

**Parameters** 

student⇔	A string representing the new student ID.
ld	

The documentation for this class was generated from the following files:

- src/student.h
- src/student.cpp

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## Chapter 4

## **File Documentation**

## 4.1 AddRequest.h

```
1 #ifndef PROJAED_ADDREQUEST_H
2 #define PROJAED_ADDREQUEST_H
4 #include <string>
5 #include "Request.h"
7 class AddRequest : public Request {
    std::string upCodeStudent;
1.0
      std::string uCCode;
11
      std::string classCode;
12
13
14 public:
    // Constructor
1.5
       AddRequest(const std::string &upCodeStudent, const std::string &uCCode, const std::string
16
      &classCode);
17
      // Getters
std::string getUpCodeStudent() const;
18
19
20
      std::string getUCCode() const;
21
22
23
      std::string getClassCode() const;
26
       void setUpCodeStudent(const std::string &upCodeStudent);
2.7
2.8
       void setUCCode(const std::string &uCCode);
       void setClassCode(const std::string &classCode);
31 };
33 #endif //PROJAED_ADDREQUEST_H
```

#### 4.2 ControlUnit.h

```
1 #ifndef PROJAED_CONTROLUNIT_H
2 #define PROJAED_CONTROLUNIT_H
3
4
5 #include <vector>
6 #include <string>
7 #include "studentGroup.h"
8 #include <map>
9 #include "student.h"
10 #include <set>
11 #include <list>
12 #include <queue>
13 #include <functional>
15 #include "lesson.h"
16 #include "Request.h"
17 #include "AddRequest.h"
```

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```
18 #include "RemoveRequest.h"
19 #include "SwitchRequest.h"
20
21 class ControlUnit {
2.2
23
24 private:
25
       struct MainKey {
26
          string UcCode;
2.7
           string ClassCode;
28
           bool operator<(const MainKey &other)const {</pre>
29
               if (UcCode != other.UcCode) {
30
31
                   return UcCode < other.UcCode;
32
33
               return ClassCode < other.ClassCode;</pre>
34
           }
35
       };
36
       string filename;
38
       set<Student> StudentSet;
39
       vector<lesson> LessonVector;
       list <studentGroup> StudentGroupList;
40
       map<MainKey, studentGroup *> KeyToStudentGroup;
41
       map<MainKey, set<lesson *» LessonMap;
map<MainKey, int> SizeMap;
42
43
44
       queue<Request *> RequestsToProcess;
45
       stack<Request *> ProcessedRequests;
46
       int cap = 30;
47
48 public :
49
50
       void Start(string filename);
51
52
       void LoadClassesCSV();
53
       void LoadClassesPerUcCSV();
54
55
       void LoadStudentsClassesCSV();
57
58
       void saveChanges();
59
60
       void DisplayStudentSchedule();
61
       void DisplayClassSchedule();
62
63
64
       int StudentsInAtLeastNUcs(int n);
6.5
       int StudentsInAtMostNUcs(int n);
66
67
68
       int StudentsInUcs(int n);
69
70
       void courseStudents(string courseCode, function<bool(Student, Student)> func);
71
72
       void yearStudents(char year, function<bool(Student, Student)> func);
73
       void classStudents(string classCode, function<bool(Student, Student)> func);
75
76
       void UCWithMostStudents();
77
78
       //Helper Function
       int NumBalanced(vector<studentGroup>, map<MainKey, int>);
79
80
       bool IsThereConflict(vector<lesson>);
81
82
       //REOUEST FUNCTIONS
83
       bool processRequest(Request *request, bool bypassStack = false);
84
85
       void processAddRequest (AddRequest *addRequest);
86
       void processRemoveRequest(RemoveRequest *removeRequest);
88
89
       void processSwitchRequest(SwitchRequest *switchRequest);
90
91
       void processAllRequests(); //this method process all requests in the queue;
92
93
       void removeLastPendingRequest(); //this method removes the most recent request that hasn't been
94
       void undoRequest(int n); //this method removes last n applied request
95
96
97
       void CheckIfThereAreConflicts();
98
99
       void createAdd();
100
101
        void createRemove();
103
        void createSwitch();
```

```
104
105
        bool CheckAdd(AddRequest *addrq);
106
107
       bool CheckRemove(RemoveRequest *remrq);
108
109
        bool CheckSwitch(SwitchRequest *swrq);
110
111
        string getClassinUc(string upcode, string uccode);
112
113
        void clearMemory(); //this method clears the dynamic memory
114 };
115
116
117 #endif //PROJAED_CONTROLUNIT_H
```

#### 4.3 src/lesson.h File Reference

```
#include <string>
#include <ctime>
#include "lessontime.h"
#include <iostream>
#include <map>
```

#### **Classes**

· class lesson

Class used to represent a lesson from a course.

#### 4.4 lesson.h

#### Go to the documentation of this file.

```
2 #ifndef PROJAED_LESSON_H
3 #define PROJAED_LESSON_H
6 #include <string>
7 #include <ctime>
8 #include "lessontime.h"
9 #include <iostream>
10 #include <map>
15 class lesson {
16 public:
26
      lesson(const std::string &ucCode, const std::string &studentGroup, const std::string &weekday, double
      startTime,
             double duration, const std::string &type);
28
33
       const std::string &getWeekday() const;
34
39
       const lessontime &getStartTime() const;
40
       const lessontime &getDuration() const;
45
46
       const lessontime &getEndTime() const;
52
       const string &getUccode() const;
57
58
       const std::string &getType() const;
63
       friend std::ostream &operator (std::ostream &os, const lesson &lesson);
       67
                                                                  1},
                                                    {"Wednesday", 2}, {"Thursday", 3},
68
69
                                                                  3},
70
                                                    {"Friday",
                                                                  4},
                                                    {"Saturday",
```

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```
{"Sunday",
                                                                                     6}};
         bool operator<(const lesson &other)const {</pre>
74
              if(dayMap[this->getWeekday()]<dayMap[other.getWeekday()]) {</pre>
75
                   return true;
             }else if(dayMap[this->getWeekday()]==dayMap[other.getWeekday()]){
    if(this->getStartTime()<other.getStartTime()){</pre>
76
                        return true;
79
80
                   return false;
81
82
              return false;
83
84
85
86
87 private:
88
        std::string studentGroup;
std::string UcCode;
89
90
        std::string weekday;
        lessontime startTime;
lessontime duration;
93
94
         lessontime endTime;
95
         std::string type;
96 };
98
99 #endif //PROJAED_LESSON_H
```

## 4.5 src/lessontime.h File Reference

```
#include <string>
#include <iostream>
#include <iomanip>
```

#### **Classes**

· class lessontime

Class used to represent time.

### 4.6 lessontime.h

#### Go to the documentation of this file.

```
2 #ifndef PROJAED_LESSONTIME_H
3 #define PROJAED_LESSONTIME_H
6 #include <string>
7 #include <iostream>
8 #include <iomanip>
9 #include <string>
10
11 using namespace std;
15 class lessontime {
       explicit lessontime(double time);
22
26
       lessontime();
27
33
       lessontime(int hour, int minutes);
34
39
       string displayHourFormat() const;
40
       int getHour() const;
4.5
46
51
       int getMinute() const;
```

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```
53
                                     friend std::ostream &operator (std::ostream &os, const lessontime &t);
55
                                     bool operator<(const lessontime &other)const {</pre>
56
                                                            \ensuremath{//} Compare two lessontime objects based on their hours and minutes
57
                                                          if (hour < other.hour) {</pre>
58
                                                                                  return true:
                                                          } else if (hour == other.hour && minute < other.minute) {</pre>
59
60
61
62
                                                          return false;
63
64
                                   }
65
                                     bool operator==(const lessontime &other)const {
66
67
                                                            // Compare two lessontime objects based on their hours and minutes
68
                                                            if (hour == other.getHour() && minute == other.getMinute()) {
69
                                                                                  return true;
                                                         }
70
71
72
                                                          return false;
73
74
7.5
                                     bool operator<=(const lessontime &other)const {</pre>
                                                            // Compare two lessontime objects based on their hours and minutes % \left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) =\frac{1}{2}\left
76
                                                           return (hour < other.hour) || (hour == other.hour && minute <= other.minute);</pre>
78
79
80 private:
81
                                     int hour;
82
                                     int minute;
83 };
84
85
86 #endif //PROJAED_LESSONTIME_H
```

## 4.7 Menu.h

```
1 #ifndef PROJAED_MENU_H
2 #define PROJAED_MENU_H
4 #include "ControlUnit.h"
6 class Menu {
7 public:
      void createMenu();
9
10
      void SeeStudentSchedule();
11
12
      void SeeClassSchedule();
13
14
       void SeeNumStudentsAtLeastNUCs();
15
16
       void SeeNumStudentsAtMostNUCs();
17
18
       void SeeNumStudentsInNUCs();
19
20
       void listingMenu();
21
22
       void requestMenu();
23
24
       void scheduleMenu();
25
26
       void studentMenu();
28
       void SeeStudentsInUc(function<bool(Student, Student)> comp);
29
30
       void SeeStudentsInYear(function<bool(Student, Student)> comp);
31
       void SeeStudentsInClass(function<bool(Student, Student)> comp);
32
33
34
       void createRequest();
35
36
       function<bool(Student, Student)> optionStudentMenu();
37
38 private:
39
       ControlUnit Control;
40
41
       void SeeUcFromMostStudents();
42
43
       void SeeNumStudentsInExactNUCs();
44
45 };
```

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```
47
48 #endif //PROJAED_MENU_H
```

## 4.8 RemoveRequest.h

```
1 #ifndef PROJAED_REMOVEREQUEST_H
2 #define PROJAED_REMOVEREQUEST_H
4 #include <string>
5 #include "Request.h"
7 class RemoveRequest : public Request {
8 private:
     std::string upCodeStudent;
10
       std::string uCCode;
11
      std::string classCode;
12
13
14 public:
15
        // Constructor
16
       RemoveRequest(const std::string &upCodeStudent, const std::string &uCCode,
17
                       const std::string &classCode);
18
19
       std::string getUpCodeStudent() const;
2.0
21
       std::string getUCCode() const;
24
       std::string getClassCode() const;
2.5
26
       // Setters
27
       void setUpCodeStudent(const std::string &upCodeStudent);
29
       void setUCCode(const std::string &uCCode);
30
31
       void setClassCode(const std::string &classCode);
32 };
33
34 #endif //PROJAED_REMOVEREQUEST_H
```

## 4.9 Request.h

```
1 #ifndef PROJAED_REQUEST_H
2 #define PROJAED REQUEST H
4 #include "student.h"
5 #include "studentGroup.h"
7 class Request {
8 private:
      static int count; // Declare a static member variable for request ID. int requestId; //The ID that identifies each Request
10
       bool processed;
12
       std::string type;
13
14 public:
       void static setCount() {
15
            count = 0;
16
17
18
19
        Request(std::string type) {
2.0
            count++;
            requestId = count;
21
            count "request id is " " requestId " and count is " " count " endl; processed = false;
22
24
            this->type = type;
25
26
2.7
        void setProcessed(bool processed) {
            this->processed = processed;
28
29
31
        std::string getType()const { return type; }
32
        \ensuremath{//} Add a virtual function (it can be a pure virtual function).
33
34
        virtual void dummv() {
            //ALLOWS DOWNCASTING
35
36
37
```

4.10 Schedule.h

```
38    virtual ~Request() {};
39 };
40
41 #endif // PROJAED_REQUEST_H
```

## 4.10 Schedule.h

```
1 #ifndef PROJAED_SCHEDULE_H
2 #define PROJAED_SCHEDULE_H
4 #include <vector>
5 #include "lesson.h"
6 #include <map>
8 using namespace std;
10 class Schedule {
11 private:
      vector<lesson> lessons; //the lessons that go into the schedule
13
       map<pair<int, int>, string> ScheduleMap; // a schedule is made up of 30 by 6 blocks
14 public:
1.5
      Schedule(vector<lesson>);
16
17
      void display();
18
19
20 };
21
22
23 #endif //PROJAED_SCHEDULE_H
```

## 4.11 src/student.h File Reference

```
#include <set>
#include <tuple>
#include <string>
#include "studentGroup.h"
```

#### Classes

· class Student

Class used to represent a student.

## 4.12 student.h

#### Go to the documentation of this file.

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```
34
       std::string getStudentID() const;
40
       set<studentGroup> getStudentGroups() const;
41
46
       std::string getName() const;
52
       void setName(const std::string &newName);
58
       void setStudentID(const std::string &studentId);
59
       void addStudentGroup(const studentGroup& GroupToAdd);
64
65
70
       void removeGroup(const studentGroup& GroupToRemove);
71
77
       bool isInUC(const string& uc) const;
78
       bool isInClass(const string& ucCode, const string& studentGroup) const;
86
87
88
       bool operator<(const Student &other)const {
          return studentID < other.studentID;</pre>
90
91
      bool operator==(const Student &other)const {
92
           return (this->studentID == other.studentID) && (this->name == other.name);
9.3
94
96
       friend std::ostream &operator«(std::ostream &os, const Student &student);
97
98 private:
99
       std::string studentID;
100
       std::string name;
101
        std::set<studentGroup> StudentGroups;
102 };
103
104
105 #endif //PROJAED STUDENT H
```

## 4.13 studentGroup.h

```
1 #ifndef STUDENTGROUP_H
2 #define STUDENTGROUP_H
4 #include <iostream>
5 #include <string>
7 class studentGroup {
       // Constructors
        studentGroup() = default;
10
11
12
        studentGroup(const std::string &uccode, const std::string &classCode);
13
         const std::string &getClassCode()const {
15
            return classCode;
16
17
        const std::string &getUcCode()const {
18
19
             return UcCode;
20
22
        bool operator<(const studentGroup &other)const {
              \ensuremath{//} Define a comparison logic here based on your criteria.
23
             // For example, you can compare based on class code or other fields.
return this->classCode + this->UcCode < other.classCode + other.UcCode;
24
25
        friend std::ostream &operator«(std::ostream &os, const studentGroup &group) {
   os « "UcCode: " « group.UcCode « ", Class Code: " « group.classCode;
28
29
30
              return os:
31
32
33
34 private:
35
        std::string classCode;
std::string UcCode;
36
37
38
39
40 };
42 #endif
```

4.14 SwitchRequest.h

## 4.14 SwitchRequest.h

```
1 #ifndef PROJAED_SWITCHREQUEST_H
2 #define PROJAED_SWITCHREQUEST_H
4 #include "Request.h"
5 #include <string>
7 class SwitchRequest : public Request {
8 private:
9 std::string upCodeStudent;
10 std::string uCCode_1;
11 std::string uCCode_2;
       std::string classCode_1;
std::string classCode_2;
13
14
15 public:
16 // Constructor
        SwitchRequest(const std::string &upCodeStudent, const std::string &uCCode1, const std::string
18
                         const std::string &classCode1, const std::string &classCode2);
19
        // Getters
20
        std::string getUpCodeStudent() const;
21
22
23
        std::string getUCCode1() const;
24
        std::string getUCCode2() const;
25
26
27
        std::string getClassCode1() const;
28
        std::string getClassCode2() const;
30
31
32 };
33
34 #endif // PROJAED_SWITCHREQUEST_H
```

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