Quiz Game Test_me

Generated by Doxygen 1.9.3

1 Class Index	1
1.1 Class List	1
2 File Index	3
2.1 File List	3
3 Class Documentation	5
3.1 Player Class Reference	5
3.1.1 Detailed Description	5
3.1.2 Constructor & Destructor Documentation	5
3.1.2.1 Player()	6
3.1.3 Member Function Documentation	6
3.1.3.1 Player_inputdata()	6
3.1.3.2 Player_play()	6
3.2 Question Class Reference	6
3.2.1 Detailed Description	6
3.2.2 Constructor & Destructor Documentation	7
3.2.2.1 Question() [1/2]	7
3.2.2.2 Question() [2/2]	7
3.2.3 Member Function Documentation	8
3.2.3.1 Evaluate_ans()	8
3.2.3.2 Get_answer()	8
3.2.3.3 Question_set()	8
3.3 quiz_question Struct Reference	9
3.3.1 Detailed Description	9
3.3.2 Member Data Documentation	9
3.3.2.1 q1	0
3.3.2.2 q10	0
3.3.2.3 q2	0
3.3.2.4 q3	0
3.3.2.5 q4	0
3.3.2.6 q5	10
	11
3.3.2.8 q7	11
	11
3.3.2.10 q9	1
4 File Documentation 1	13
	13
	13
	13
	14
	14

4.3.1 Macro Definition Documentation	14
4.3.1.1 DIFFICULTYLEVL_H	14
4.3.2 Function Documentation	14
4.3.2.1 convert()	14
4.4 DifficultyLevel.h	15
4.5 Enum.cpp File Reference	15
4.5.1 Enumeration Type Documentation	15
4.5.1.1 Game_level	15
4.6 Enum.cpp	16
4.7 Enum.h File Reference	16
4.7.1 Macro Definition Documentation	16
4.7.1.1 ENUM_H	16
4.7.2 Enumeration Type Documentation	16
4.7.2.1 Game_level	16
4.8 Enum.h	17
4.9 Player.cpp File Reference	17
4.10 Player.cpp	17
4.11 Player.h File Reference	21
4.11.1 Macro Definition Documentation	22
4.11.1.1 PLAYER_H	22
4.12 Player.h	22
4.13 Question.cpp File Reference	22
4.13.1 Function Documentation	22
4.13.1.1 Evaluate_ans()	23
4.14 Question.cpp	23
4.15 Question.h File Reference	24
4.15.1 Macro Definition Documentation	24
4.15.1.1 QUESTION_H	24
4.16 Question.h	24
4.17 QuestionSet.cpp File Reference	25
4.18 QuestionSet.cpp	25
4.19 QuestionSet.h File Reference	25
4.19.1 Macro Definition Documentation	25
4.19.1.1 STRUCT_H	25
4.20 QuestionSet.h	26
4.21 Quiz.cpp File Reference	26
4.21.1 Function Documentation	26
4.21.1.1 main()	26
4.22 Quiz.cpp	27
4.23 ReadingFile.cpp File Reference	27
4.23.1 Function Documentation	27
4.23.1.1 create_questions()	28

39

4.23.1.2 debug_questions()	28
4.23.1.3 read_questions()	28
4.23.1.4 shuffle()	28
4.23.1.5 values()	29
4.24 ReadingFile.cpp	29
4.25 ReadingFile.h File Reference	31
4.25.1 Function Documentation	31
4.25.1.1 create_questions()	32
4.25.1.2 debug_questions()	32
4.25.1.3 read_questions()	32
4.25.1.4 shuffle()	32
4.25.1.5 values()	33
4.26 ReadingFile.h	33
4.27 StringManipulators.cpp File Reference	34
4.27.1 Function Documentation	34
4.27.1.1 Remove_question_no()	34
4.27.1.2 Replace()	34
4.27.1.3 trim()	35
4.28 StringManipulators.cpp	35
4.29 StringManipulators.h File Reference	36
4.29.1 Function Documentation	36
4.29.1.1 Remove_question_no()	36
4.29.1.2 Replace()	36
4.29.1.3 trim()	37
4.30 StringManipulators.h	37

Index

Chapter 1

Class Index

1.1 Class List

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

Player	5
Question	6
quiz question	c

2 Class Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

DifficultyLevel.cpp	13
DifficultyLevel.h	14
Enum.cpp	15
Enum.h	16
Player.cpp	17
Player.h	21
Question.cpp	
Question.h	
QuestionSet.cpp	25
QuestionSet.h	25
Quiz.cpp	26
ReadingFile.cpp	27
ReadingFile.h	
StringManipulators.cpp	
StringManipulators h	36

File Index

Chapter 3

Class Documentation

3.1 Player Class Reference

#include <Player.h>

Public Member Functions

- Player ()
- void Player_inputdata ()
- void Player_play ()

3.1.1 Detailed Description

A Player Class with several private variables and methods

Parameters

int	Total an integer tracting player score
char	username a character variable storing player username
Game_level	Select an enum type/ difficulty level selected by user
std::vector	<question> Tasks a vector of questions read from file based on difficulty level selcted by player in Game_levl</question>

Definition at line 17 of file Player.h.

3.1.2 Constructor & Destructor Documentation

6 Class Documentation

3.1.2.1 Player()

```
Player::Player ( )
```

A constructor for the Question Class without parameters

Definition at line 8 of file Player.cpp.

3.1.3 Member Function Documentation

3.1.3.1 Player_inputdata()

```
void Player::Player_inputdata ( )
```

A public method that takes the input from the player, switches to the difficulty level, reads questions from a specific file per difficulty level and initials game play

Definition at line 13 of file Player.cpp.

3.1.3.2 Player_play()

```
void Player::Player_play ( )
```

A public method that displays all of the questions from a choosen category selected by the player read from a vector of questions

Definition at line 284 of file Player.cpp.

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

- · Player.h
- · Player.cpp

3.2 Question Class Reference

```
#include <Question.h>
```

Public Member Functions

- bool Evaluate_ans (std::string response, std::string _answer)
- Question (std::string Question_text, std::string A, std::string B, std::string C, std::string D, std::string Answer, int Mark)
- Question ()
- void Question_set (std::string Rquestion_text, std::string Ra, std::string Rb, std::string Rc, std::string Rd, std::string Ranswer, int Rmark)
- int Get answer ()

3.2.1 Detailed Description

A Question Class with several private variables and methods

Parameters

std::string	question_text a string variable storing question text
std::string	a a string variable storing option a
std::string	b a string variable storing option b
std::string	c a string variable storing option c
std::string	d a string variable storing option d
std::string	answer a string variable storing the the correct option between a,b,c,d
int	mark an integer variable storing the mark

Definition at line 20 of file Question.h.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 Question() [1/2]

A constructor for the Question Class with given parameters

Parameters

std::string	Question_text a string variable storing question text
std::string	A a string variable storing option a
std::string	B a string variable storing option b
std::string	C a string variable storing option c
std::string	D a string variable storing option d
std::string	Answer a string variable storing the the correct option between a,b,c,d
int	Mark an integer variable storing the mark

Definition at line 11 of file Question.cpp.

3.2.2.2 Question() [2/2]

```
Question::Question ( )
```

A constructor for the Question Class without parameters

Definition at line 6 of file Question.cpp.

8 Class Documentation

3.2.3 Member Function Documentation

3.2.3.1 Evaluate_ans()

A public method of the Question Class that evaluates the response from the player with the answer and returns a pass(1) or fail(0)

Parameters

std::string	response a string variable with the response from player
std::string	answer a string variable storing the the correct option between a,b,c,d for the question class

Returns

bool 0 failed question bool 1 passed question

Definition at line 34 of file Question.h.

3.2.3.2 Get_answer()

```
int Question::Get_answer ( )
```

A public method that displays the question to player, receives the response, checks if the answer is correct and allocates score for the question

Returns

int score an integer variable storing the mark for the question based on evaluation from the bool Evaluate_ans() method.

Definition at line 30 of file Question.cpp.

3.2.3.3 Question_set()

```
void Question::Question_set (
    std::string Rquestion_text,
    std::string Ra,
    std::string Rb,
    std::string Rc,
    std::string Rd,
    std::string Ranswer,
    int Rmark )
```

A public method that intializes the variables and sets a question

Parameters

std::string	Rquestion_text a string variable storing question text
std::string	Ra a string variable storing option a
std::string	Rb a string variable storing option b
std::string	Rc a string variable storing option c
std::string	Rd a string variable storing option d
std::string	Ranswer a string variable storing the the correct option between a,b,c,d
int	Rmark an integer variable storing the mark

Definition at line 19 of file Question.cpp.

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

- Question.h
- · Question.cpp

3.3 quiz_question Struct Reference

#include <QuestionSet.h>

Public Attributes

- Question q1
- Question q2
- Question q3
- Question q4
- Question q5
- Question q6
- Question q7
- Question q8 Question q9
- Question q10

3.3.1 Detailed Description

A structure that stores a set of 10 questions for each player

Definition at line 3 of file QuestionSet.cpp.

3.3.2 Member Data Documentation

10 Class Documentation

3.3.2.1 q1

Question quiz_question::q1

Definition at line 5 of file QuestionSet.cpp.

3.3.2.2 q10

Question quiz_question::q10

Definition at line 14 of file QuestionSet.cpp.

3.3.2.3 q2

Question quiz_question::q2

Definition at line 6 of file QuestionSet.cpp.

3.3.2.4 q3

Question quiz_question::q3

Definition at line 7 of file QuestionSet.cpp.

3.3.2.5 q4

Question quiz_question::q4

Definition at line 8 of file QuestionSet.cpp.

3.3.2.6 q5

Question quiz_question::q5

Definition at line 9 of file QuestionSet.cpp.

3.3.2.7 q6

Question quiz_question::q6

Definition at line 10 of file QuestionSet.cpp.

3.3.2.8 q7

Question quiz_question::q7

Definition at line 11 of file QuestionSet.cpp.

3.3.2.9 q8

Question quiz_question::q8

Definition at line 12 of file QuestionSet.cpp.

3.3.2.10 q9

Question quiz_question::q9

Definition at line 13 of file QuestionSet.cpp.

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

- QuestionSet.cpp
- · QuestionSet.h

12 Class Documentation

Chapter 4

File Documentation

4.1 DifficultyLevel.cpp File Reference

```
#include "Enum.h"
```

Functions

• Game_level convert (char difficulty)

4.1.1 Function Documentation

4.1.1.1 convert()

The function reads the char input(difficulty) from player and allocates the correct enum difficulty type

Parameters

```
std,← char difficulty variable entered by player to select difficulty level :
```

Returns

operation r returns an enum type with a specific difficulty selected by player

Definition at line 3 of file DifficultyLevel.cpp.

4.2 DifficultyLevel.cpp

Go to the documentation of this file.

4.3 DifficultyLevel.h File Reference

```
#include "Enum.h"
```

Macros

• #define DIFFICULTYLEVL_H

Functions

• Game_level convert (char difficulty)

4.3.1 Macro Definition Documentation

4.3.1.1 DIFFICULTYLEVL H

```
#define DIFFICULTYLEVL_H
```

Definition at line 3 of file DifficultyLevel.h.

4.3.2 Function Documentation

4.3.2.1 convert()

The function reads the char input(difficulty) from player and allocates the correct enum difficulty type

Parameters

```
std,← char difficulty variable entered by player to select difficulty level :
```

Returns

operation r returns an enum type with a specific difficulty selected by player

Definition at line 3 of file DifficultyLevel.cpp.

4.4 DifficultyLevel.h

Go to the documentation of this file.

```
00001 #pragma
00002 #ifndef DIFFICULTYLEVEL_H
00003 #define DIFFICULTYLEVL_H
00004
00005 #include"Enum.h"
00006
00007
00013 Game_level convert(char difficulty);
00014
00015 #endif
00016
```

4.5 Enum.cpp File Reference

Enumerations

```
enum class Game_level {
  simple = 1 , medium , hard , other ,
  simple = 1 , medium , hard , other }
```

4.5.1 Enumeration Type Documentation

4.5.1.1 Game level

```
enum class Game_level [strong]
```

Enumerator

simple	
medium	
hard	
other	
simple	
medium	
hard	

Generated by Doxygen

Definition at line 2 of file Enum.cpp.

4.6 Enum.cpp

```
Go to the documentation of this file.
00001
00002 enum class Game_level { simple = 1, medium, hard, other };
```

4.7 Enum.h File Reference

Macros

• #define ENUM_H

Enumerations

```
enum class Game_level {
  simple = 1 , medium , hard , other ,
  simple = 1 , medium , hard , other }
```

4.7.1 Macro Definition Documentation

4.7.1.1 ENUM_H

```
#define ENUM_H
```

Definition at line 3 of file Enum.h.

4.7.2 Enumeration Type Documentation

4.7.2.1 Game_level

```
enum class Game_level [strong]
```

An enum of 4 difficulty levels for each player

Enumerator

simple	
medium	
hard	
other	
simple	
medium	
hard	

4.8 Enum.h 17

Definition at line 9 of file Enum.h.

4.8 Enum.h

Go to the documentation of this file.

```
00001 #pragma once

00002 #ifndef ENUM_H

00003 #define ENUM_H

00004

00009 enum class Game_level { simple = 1, medium, hard, other };

00010

00011 #endif // !ENUM.H
```

4.9 Player.cpp File Reference

```
#include <iostream>
#include "Player.h"
#include "QuestionSet.h"
#include "DifficultyLevel.h"
#include "ReadingFile.h"
```

4.10 Player.cpp

Go to the documentation of this file.

```
00001 #include <iostream>
00002 #include "Player.h"
00003 #include "QuestionSet.h"
00004 #include "DifficultyLevel.h"
00005 #include "ReadingFile.h"
00006
00007
00008 Player::Player()
00009 {
00010
          Player inputdata();
00011 }
00012
00013 void Player::Player_inputdata()
00014 {
00015
          char difficulty;
00016
          std::string file;
00017
          std::vector< std::vector<std::string> questionsfromfile;
00018
          quiz_question Set;
00019
00020
          std::cout « "Welcome to TEST-ME quiz game \n" « '\n';
00021
          std::cout « "Please select Quiz difficulty level : \n type 1 for simple \n 2 for average \n 3 for
00022
      hard \n 4 for expert" « '\n';
00023
         std::cin » difficulty;
00024
00025
          std::cout « "please Type in your user name" « '\n';
00026
00027
          std::cin » username;
00028
00029
00030
          Game_level Select = convert(difficulty);
00031
          switch (Select)
00032
00033
00034
          case Game_level::simple:
00035
00036
              std::cout « "\n Simple Quiz Game mode activated \n";
00037
              file = "question_simple.txt";
00038
00039
              questionsfromfile = read_questions(file);
00040
```

```
00042
                                                             for (int row = 0; row < questionsfromfile.size(); row++)</pre>
00043
00044
                                                                              for (int col = 0; col < questionsfromfile[0].size(); col++)</pre>
00045
00046
                                                                                               if (row == 0)
00047
00048
00049
                                                                                                                Set.ql.Question_set(questionsfromfile[0][0], questionsfromfile[0][1],
                               questions from file [0] [2], \ questions from file [0] [3], \ questions from file [0] [4], \ questions from file [0] [5], \ questions from file [0] [6], \ questions from file [6], \ questions fro
                               stoi(questionsfromfile[0][6]));
00050
00051
00052
                                                                                               if (row == 1)
00053
00054
00055
                                                                                                                {\tt Set.q2.Question\_set} \ ({\tt questionsfromfile[1][0]}, \ {\tt questionsfromfile[1][1]}, \\
                              questionsfromfile[1][2], questionsfromfile[1][3], questionsfromfile[1][4], questionsfromfile[1][5], stoi(questionsfromfile[1][6]));
00056
00057
00058
                                                                                                if (row == 2)
00059
00060
                                                                                                               Set.q3.Question_set(questionsfromfile[2][0], questionsfromfile[2][1],
00061
                              questionsfromfile[2][2], questionsfromfile[2][3], questionsfromfile[2][4], questionsfromfile[2][5], stoi(questionsfromfile[2][6]));
00062
00063
00064
00065
                                                                                                if (row == 3)
00066
00067
00068
                                                                                                                Set.q4.Question_set(questionsfromfile[3][0], questionsfromfile[3][1],
                               questions from file \cite{Months} [2], questions from file \cite{Months} [3], questions from file \cite{Months} [3], questions from file \cite{Months} [3], question from file \cite{M
                               stoi(questionsfromfile[3][6]));
00069
00070
00071
                                                                                               if (row == 4)
00072
00073
                                                                                                                Set.q5.Question_set(questionsfromfile[4][0], questionsfromfile[4][1],
                              \label{thm:questionsfromfile[4][3]} questions from file[4][3], \ questions from file[4][4], \ questions from file[4][5], \ stoi(questions from file[4][6]));
00074
00075
00076
00077
                                                                                                if (row == 5)
00078
00079
                                                                                                               Set.q6.Question_set(questionsfromfile[5][0], questionsfromfile[5][1],
00080
                               questionsfromfile[5][2], questionsfromfile[5][3], questionsfromfile[5][4], questionsfromfile[5][5],
                              stoi(questionsfromfile[5][6]));
00081
00082
00083
00084
                                                                                               if (row == 6)
00085
                                                                                                                 Set.q7.Question_set(questionsfromfile[6][0], questionsfromfile[6][1],
00086
                              questionsfromfile[6][2], questionsfromfile[6][3], questionsfromfile[6][4], questionsfromfile[6][5], stoi(questionsfromfile[6][6]);
00087
00088
                                                                                                if (row == 7)
00089
00090
                                                                                                                Set.q8.Question_set(questionsfromfile[7][0], questionsfromfile[7][1],
00091
                               questionsfromfile[7][2], questionsfromfile[7][3], questionsfromfile[7][4], questionsfromfile[7][5],
                               stoi(questionsfromfile[7][6]));
00092
00093
00094
                                                                                               if (row == 8)
00095
00096
00097
                                                                                                               Set.q9.Question_set(questionsfromfile[8][0], questionsfromfile[8][1],
                               questions from file [8] [2], \ questions from file [8] [3], \ questions from file [8] [4], \ questions from file [8] [5], \ questions from file [8] [6], \ questions from file [8] [6], \ questions from file [8] [6], \ questions from file [8], \ questions from fil
                              stoi(questionsfromfile[8][6]));
00098
00099
00100
                                                                                                if (row == 9)
00101
                              Set. \\ q10. \\ Question\_set \\ (questions from file [9][0], questions from file [9][1], \\ questions from file [9][2], questions from file [9][3], questions from file [9][4], questions from file [9][5], \\ questions from file [9][4], questions from file [9][5], \\ questions from file [9][6], questions from file 
00102
                              stoi(questionsfromfile[9][6]));
00103
00104
00105
00106
                                                                              }
                                                            }
00107
00108
```

4.10 Player.cpp

```
Tasks = { Set.q1, Set.q2, Set.q3, Set.q4, Set.q5, Set.q6, Set.q7, Set.q8, Set.q9, Set.q10 };
00110
00111
                          Player_play();
00112
00113
                         break;
00114
                   case Game level::medium:
00115
00116
                          std::cout « "\n Medium Quiz Game mode activated \n";
00117
00118
                          file = "question_medium.txt";
                          questionsfromfile = read_questions(file);
00119
00120
00121
                          for (int row = 0; row < questionsfromfile.size(); row++)</pre>
00122
00123
                                  for (int col = 0; col < questionsfromfile[0].size(); col++)</pre>
00124
                                         if (row == 0)
00125
00126
00127
00128
                                                Set.q1.Question_set(questionsfromfile[0][0], questionsfromfile[0][1],
             questionsfromfile[0][2], questionsfromfile[0][3], questionsfromfile[0][4], questionsfromfile[0][5],
             stoi(questionsfromfile[0][6]));
00129
00130
                                         if (row == 1)
00131
00132
00133
00134
                                                Set.q2.Question_set(questionsfromfile[1][0], questionsfromfile[1][1],
             questionsfromfile[1][2], questionsfromfile[1][3], questionsfromfile[1][4], questionsfromfile[1][5],
stoi(questionsfromfile[1][6]));
00135
00136
00137
                                         if (row == 2)
00138
00139
                                                Set.q3.Question_set(questionsfromfile[2][0], questionsfromfile[2][1],
00140
             questionsfromfile[2][2], questionsfromfile[2][3], questionsfromfile[2][4], questionsfromfile[2][5], stoi(questionsfromfile[2][6]));
00141
00142
00143
                                         if (row == 3)
00144
00145
00146
                                                Set.q4.Question_set(questionsfromfile[3][0], questionsfromfile[3][1],
00147
             questionsfromfile[3][2], questionsfromfile[3][3], questionsfromfile[3][4], questionsfromfile[3][5],
             stoi(questionsfromfile[3][6]));
00148
00149
00150
                                         if (row == 4)
00151
00152
                                                {\tt Set.q5.Question\_set} \ ({\tt questionsfromfile[4][0]}, \ {\tt questionsfromfile[4][1]},
             questionsfromfile[4][2], questionsfromfile[4][3], questionsfromfile[4][4], questionsfromfile[4][5],
             stoi(questionsfromfile[4][6]));
00153
00154
00156
                                         if (row == 5)
00157
00158
00159
                                                Set.g6.Question set(questionsfromfile[5][0], questionsfromfile[5][1],
             questionsfromfile[5][2], questionsfromfile[5][3], questionsfromfile[5][4], questionsfromfile[5][5],
             stoi(questionsfromfile[5][6]));
00160
00161
00162
                                         if (row == 6)
00163
00164
                                                Set.q7.Question_set(questionsfromfile[6][0], questionsfromfile[6][1],
00165
             questionsfromfile[6][2], questionsfromfile[6][3], questionsfromfile[6][4], questionsfromfile[6][5], stoi(questionsfromfile[6][6]);
00166
00167
                                         if (row == 7)
00168
00169
                                                Set.q8.Question_set(questionsfromfile[7][0], questionsfromfile[7][1],
00170
             questionsfromfile[7][2], questionsfromfile[7][3], questionsfromfile[7][4], questionsfromfile[7][5], stoi(questionsfromfile[7][6]));
00171
00172
00173
                                         if (row == 8)
00174
00175
00176
                                                Set.q9.Question_set(questionsfromfile[8][0], questionsfromfile[8][1],
             questions from file [8] [2], \ questions from file [8] [3], \ questions from file [8] [4], \ questions from file [8] [5], \ questions from file [8] [6], \ questions from file [8] [6], \ questions from file [8] [6], \ questions from file [8], \ questions from fil
             stoi(questionsfromfile[8][6]));
00177
```

```
00178
00179
                                                            if (row == 9)
00180
                                                                      Set.q10.Question_set(questionsfromfile[9][0], questionsfromfile[9][1],
00181
                   questionsfromfile[9][2], questionsfromfile[9][3], questionsfromfile[9][4], questionsfromfile[9][5], stoi(questionsfromfile[9][6]));
00182
00183
00184
00185
                                                 }
                                      }
00186
00187
00188
                                      Tasks = { Set.q1, Set.q2, Set.q3, Set.q4, Set.q5, Set.q6, Set.q7, Set.q8, Set.q9, Set.q10 };
00189
00190
                                      Player_play();
00191
00192
                                      break:
00193
00194
                           case Game_level::hard:
00195
00196
                                      std::cout « "Hard Quiz Game mode activated" « '\n';
00197
00198
                                      file = "question_hard.txt";
00199
                                      questionsfromfile = read_questions(file);
00200
00201
                                       for (int row = 0; row < questionsfromfile.size(); row++)</pre>
00202
00203
                                                 for (int col = 0; col < questionsfromfile[0].size(); col++)</pre>
00204
00205
                                                            if (row == 0)
00206
00207
00208
                                                                      Set.ql.Question_set(questionsfromfile[0][0], questionsfromfile[0][1],
                   questions from file [0] [2], \ questions from file [0] [3], \ questions from file [0] [4], \ questions from file [0] [5], \ questions from file [0] [6], \ questions from file [6], \ quest
                   stoi(questionsfromfile[0][6]));
00209
00210
00211
                                                            if (row == 1)
00212
00213
00214
                                                                      {\tt Set.q2.Question\_set} \ ({\tt questionsfromfile[1][0]}, \ {\tt questionsfromfile[1][1]}, \\
                  questionsfromfile[1][2], questionsfromfile[1][3], questionsfromfile[1][4], questionsfromfile[1][5], stoi(questionsfromfile[1][6]));
00215
00216
00217
                                                            if (row == 2)
00218
00219
                                                                      Set.q3.Question_set(questionsfromfile[2][0], questionsfromfile[2][1],
00220
                   questionsfromfile[2][2], questionsfromfile[2][3], questionsfromfile[2][4], questionsfromfile[2][5],
                   stoi(questionsfromfile[2][6]));
00221
00222
00223
                                                            if (row == 3)
00224
00225
00226
                                                                      Set.q4.Question_set(questionsfromfile[3][0], questionsfromfile[3][1],
00227
                   questionsfromfile[3][2], questionsfromfile[3][3], questionsfromfile[3][4], questionsfromfile[3][5],
                   stoi(questionsfromfile[3][6]));
00228
00229
00230
                                                            if (row == 4)
00231
00232
                                                                      Set.q5.Question_set(questionsfromfile[4][0], questionsfromfile[4][1],
                   questions from file [4] [2], \ questions from file [4] [3], \ questions from file [4] [4], \ questions from file [4] [5], \ questions from file [4] [6], \ questions from file [4] [6], \ questions from file [6
                   stoi(questionsfromfile[4][6]));
00233
00234
00235
00236
                                                            if (row == 5)
00237
00238
                                                                      Set.q6.Question_set(questionsfromfile[5][0], questionsfromfile[5][1],
00239
                   questionsfromfile[5][2], questionsfromfile[5][3], questionsfromfile[5][4], questionsfromfile[5][5], stoi(questionsfromfile[5][6]));
00240
00241
00242
00243
                                                            if (row == 6)
00244
00245
                                                                      Set.q7.Question_set(questionsfromfile[6][0], questionsfromfile[6][1],
                   questionsfromfile[6][2], questionsfromfile[6][3], questionsfromfile[6][4], questionsfromfile[6][5],
                   stoi(questionsfromfile[6][6]));
00246
00247
00248
                                                            if (row == 7)
```

```
00249
00250
                             Set.q8.Question_set(questionsfromfile[7][0], questionsfromfile[7][1],
        questionsfromfile[7][2], questionsfromfile[7][3], questionsfromfile[7][4], questionsfromfile[7][5],
stoi(questionsfromfile[7][6]));
00251
00252
                         if (row == 8)
00254
00255
00256
                             Set.q9.Question_set(questionsfromfile[8][0], questionsfromfile[8][1],
        questionsfromfile[8][2], questionsfromfile[8][3], questionsfromfile[8][4], questionsfromfile[8][5], stoi(questionsfromfile[8][6]));
00257
00258
00259
                         if (row == 9)
00260
                             Set.q10.Question_set(questionsfromfile[9][0], questionsfromfile[9][1],
00261
       questionsfromfile[9][2], questionsfromfile[9][3], questionsfromfile[9][4], questionsfromfile[9][5], stoi(questionsfromfile[9][6]));
00262
00263
00264
00265
                    }
               }
00266
00267
00268
                Tasks = { Set.q1, Set.q2, Set.q3, Set.q4, Set.q5, Set.q6, Set.q7, Set.q8, Set.q9, Set.q10 };
00269
00270
               Player_play();
00271
00272
               break:
00273
00274
           case Game_level::other:
00275
00276
                \mathtt{std::cout} \  \, \texttt{``"} \  \, \texttt{The difficulty level you selected is not available, please start over and select}
       difficulty level: 1 = simple \ n \ 2 for average\n 3 for hard\n 4 for expert \n" « "Good-bye and try again soon";
00277
00278
               break;
00279
00280
00281
00282 }
00283
00284 void Player::Player_play()
00285 {
00286
           std::cout « "\n Your Quiz game has been generated begin!!!" « '\n';
00287
           for (int t=0; t < Tasks.size(); t++)
00288
00289
00290
                Total += Tasks[t].Get answer();
00291
00292
00293
           std::cout « username « " your total game score is : " « Total « "/ 100 \n";
00294 };
```

4.11 Player.h File Reference

```
#include <vector>
#include "Question.h"
#include "DifficultyLevel.h"
```

Classes

class Player

Macros

• #define PLAYER H

4.11.1 Macro Definition Documentation

4.11.1.1 PLAYER_H

```
#define PLAYER_H
```

Definition at line 3 of file Player.h.

4.12 Player.h

Go to the documentation of this file.

```
00001 #pragma once
00002 #ifndef PLAYER_H
00003 #define PLAYER_H
00004
00005 #include <vector>
00006 #include "Question.h"
00007 #include"DifficultyLevel.h"
00009
00017 class Player
00018 {
           int Total = 0;
00019
00020
           char username;
         Game_level Select;
00021
00022
           std::vector <Question> Tasks;
00023
00024
00025 public:
00026
00027
00029
           Player();
00030
00032
           void Player_inputdata();
00033
           void Player_play();
00035
00036 };
00037
00038 #endif
```

4.13 Question.cpp File Reference

```
#include <iostream>
#include "Question.h"
```

Functions

• bool Evaluate_ans (std::string response, std::string _answer)

4.13.1 Function Documentation

4.14 Question.cpp 23

4.13.1.1 Evaluate_ans()

Definition at line 17 of file Question.cpp.

4.14 Question.cpp

Go to the documentation of this file.

```
00001 #include <iostream>
00002 #include "Question.h"
00003
00004 //Question constructor
00005
00006 Question::Question()
00007 {
00008
00009 }
00010
00011 Question::Question(std::string Question_text, std::string A, std::string B, std::string C,
       std::string D, std::string Answer, int Mark)
00012 {
00013
          Question_set(Question_text, A, B, C, D, Answer, Mark);
00014 }
00015
00016 //Question memeber function
00017 bool Evaluate_ans(std::string response, std::string _answer) { if (response == _answer) { return 1; }
       else { return 0; } }
00019 void Question::Question_set(std::string Rquestion_text, std::string Ra, std::string Rb, std::string
       Rc, std::string Rd, std::string Ranswer, int Rmark)
00020 {
00021
          question_text = Rquestion_text;
00022
          a = Ra;
b = Rb;
00023
00024
          c = Rc;
00025
          d = Rd;
          answer = Ranswer;
mark = Rmark;
00026
00027
00028 }
00029
00030 int Question::Get_answer() {
00031
00032
00033
          int score = 0;
          std::string response = "";
00034
00035
00036
00037
          std::cout « "Question : " « question_text « '\n';
00038
          std::cout « "a. " « a « '\n'; std::cout « "b. " « b « '\n'; std::cout « "c. " « c « '\n';
00039
00040
00041
          std::cout « "d. " « d « '\n';
00042
00043
00044
          std::cout « " Select an answer from the options (a,b,c,d)" « "\n";
00045
00046
          std::cin » response;
00047
00048
          std::cout « "confirm answer" « "\n";
00049
          std::cin » response;
00050
00051
00052
          bool validate = Evaluate_ans(response, answer);
00053
00054
           if (Evaluate_ans(response, answer) == true)
00055
          {
00056
00057
00058
          else
00059
          {
00060
              score = 0;
00061
00062
          return score;
00063 }
```

4.15 Question.h File Reference

```
#include <string>
```

Classes

class Question

Macros

• #define QUESTION_H

4.15.1 Macro Definition Documentation

4.15.1.1 QUESTION H

```
#define QUESTION_H
```

Definition at line 3 of file Question.h.

4.16 Question.h

Go to the documentation of this file.

```
00001 #pragma once
00002 #ifndef QUESTION_H
00003 #define QUESTION_H
00004
00005 #include <string>
00006 using namespace std;
00007
80000
00020 class Question
00021 {
00022 private:
         std::string question_text, a, b, c, d, answer;
00024
          int mark=0;
00025
00026 public:
00034
praluate_ans(std:::
1; } else { return 0; } };
00035
         bool Evaluate_ans(std::string response, std::string _answer) { if (response == _answer) { return
         Question(std::string Question_text, std::string A, std::string B, std::string C, std::string D,
      std::string Answer, int Mark);
00047
00049
         Question();
00050
00061
         void Question_set(std::string Rquestion_text, std::string Ra, std::string Rb, std::string Rc,
std::string Rd, std::string Ranswer, int Rmark);
00067
          int Get_answer();
00068 };
00069
00070 #endif
00071
00072
```

4.17 QuestionSet.cpp File Reference

```
#include "Question.h"
```

Classes

· struct quiz_question

4.18 QuestionSet.cpp

Go to the documentation of this file.

```
00001 #include"Question.h"
00002
00003 struct quiz_question
00004 {
00005 Question q1;
00006 Question q2;
00007 Question q3;
00008 Question q4;
00009 Question q5;
00010 Question q6;
00011 Question q7;
00012 Question q8;
00013 Question q9;
00014 Question q9;
00015 };
```

4.19 QuestionSet.h File Reference

```
#include "QuestionSet.h"
```

Classes

• struct quiz_question

Macros

#define STRUCT_H

4.19.1 Macro Definition Documentation

4.19.1.1 STRUCT_H

```
#define STRUCT_H
```

Definition at line 3 of file QuestionSet.h.

4.20 QuestionSet.h

Go to the documentation of this file.

```
00001 #pragma once
00002 #ifndef STRUCT_H
00003 #define STRUCT_H
00005 #include"QuestionSet.h"
00006
00007
00011 struct quiz\_question
00012 {
           Question q1;
          Question q2;
        Question q3;
00015
          Question q4;
Question q5;
00016
00017
          Question q6;
Question q7;
00018
00019
00020
          Question q8;
00021
          Question q9;
00022
          Question q10;
00023 };
00024
00025 #endif // !STRUCT.H
```

4.21 Quiz.cpp File Reference

```
#include <iostream>
#include "StringManipulators.h"
#include "ReadingFile.h"
#include "Player.h"
```

Functions

• int main ()

4.21.1 Function Documentation

4.21.1.1 main()

```
int main ( )
```

Definition at line 11 of file Quiz.cpp.

4.22 Quiz.cpp 27

4.22 Quiz.cpp

```
Go to the documentation of this file.
00001 // Quiz.cpp : This file contains the 'main' function. Program execution begins and ends there.
00002 //
00003
00004 #include <iostream>
00005
00006 #include "StringManipulators.h"
00007 #include "ReadingFile.h"
00008 #include "Player.h"
00009
00010
00011 int main()
00012
00013 {
00014
00015
           Player A;
00016
           Player B;
00017
00018
            return 0;
00019 }
```

4.23 ReadingFile.cpp File Reference

```
#include <vector>
#include <string>
#include <string.h>
#include <iostream>
#include <random>
#include <chrono>
#include <sstream>
#include <fstream>
#include <cstddef>
#include <cstdlib>
#include "StringManipulators.h"
#include "ReadingFile.h"
#include "Question.h"
```

Functions

- std::string values (int Number, int c)
- void create_questions ()
- std::vector< std::vector< std::string >> read_questions (std::string filename)
- std::vector< Question > shuffle (std::vector< Question > Tasks)
- void debug_questions (std::vector< std::string > >vect)

4.23.1 Function Documentation

4.23.1.1 create_questions()

```
void create_questions ( )
```

It generates and creates nrows of question each quetion with a fixed ncol of property

Definition at line 73 of file ReadingFile.cpp.

4.23.1.2 debug_questions()

```
void debug_questions (
          std::vector< std::string > > vect )
```

The function debugs a matrix showing of a set of questions and all its variables on the console

Parameters

std::vector <std::vector<string>></std::vector<string>	vect vector of vector double printed to the output	
-----------------------------------------------------------	----------------------------------------------------	--

Definition at line 151 of file ReadingFile.cpp.

4.23.1.3 read_questions()

The function reads a matrix of random number from a file

Parameters

etde	trina	file_name a string variable storing the file name from which data is read
Sius	sung	ille_name a string variable storing the file flame from which data is read

Returns

std::vector< std::vector<std::string>> data returns a vector of vector matrix containing the read matrix

Definition at line 110 of file ReadingFile.cpp.

4.23.1.4 shuffle()

```
\begin{tabular}{ll} {\tt std::vector}<& {\tt Question} > {\tt shuffle} & (\\ & {\tt std::vector}<& {\tt Question} > {\tt \it Tasks} & ) \end{tabular}
```

The function shuffles a matrix of questions and returns a shuffled version

4.24 ReadingFile.cpp 29

Parameters

std::vector <std::vector<string>></std::vector<string>	Tasks vector of vector to be shuffled
-----------------------------------------------------------	---------------------------------------

Returns

std::vector<std::vector<string>> Tasks new vector of vector after shuffling

Definition at line 141 of file ReadingFile.cpp.

4.23.1.5 values()

This function helps allocate per question the variables/properities(c) for each question.

Parameters

int	Number of Question number of rows/questions to be entered into the matrix container and saved to file (r where r1 = question 1 and properties, r2 =question 2 and properties)
int	QuestionParameters number of columns/options per question (where (c1 = quetion text),(c2-c5 = options [a, b, c, d]), the answer(c6) and the marks(c7))

Definition at line 21 of file ReadingFile.cpp.

4.24 ReadingFile.cpp

Go to the documentation of this file.

```
00001 #include <vector>
00002 #include<string>
00003 #include <string.h>
00004 #include <iostream>
00005 #include <vector>
00006 #include <random>
00007 #include <chrono>
00008 #include <sstream>
00009 #include <fstream>
00010 #include <algorithm>
00011 #include <string>
00012 #include <cstddef>
00013 #include <cstdlib>
00014
00015 #include "StringManipulators.h"
00016 #include "ReadingFile.h"
00017 #include "Question.h"
00018
00019
00020
00021 std::string values(int Number, int c)
00022 {
00023
            std::string value = " ";
char temp = '"';
char delim = ',';
00024
00025
00026
             std::string line = " ";
00027
```

```
00029
                for (int C = 0; C < c; C++)
00030
00031
00032
                     if (C == 0)
00033
                         std::cout « "Please enter data for Question" « Number « '\n';
00034
00035
                         std::cout « "Type in Question text: \n"; cin » value;
00036
                         line = temp + value + temp + delim;
00037
                     if (C == 1)
00038
00039
00040
                         std::cout « "enter answer for option A : \n"; cin » value;
00041
                         line += temp + value + temp + delim;
00042
00043
                     if (C == 2)
00044
00045
                         std::cout « "enter answer for option B : \n"; cin » value;
00046
                         line += temp + value + temp + delim;
00047
00048
                     if (C == 3)
00049
                         std::cout « "enter answer for option C : \n"; cin » value;
00050
00051
                         line += temp + value + temp + delim;
00052
00053
                     if (C == 4)
00054
00055
                         std::cout « "enter answer for option D : \n"; cin » value;
00056
                         line += temp + value + temp + delim ;
00057
00058
                     if (C == 5)
00059
                     {
00060
                         \mathtt{std} : \mathtt{cout} \ \texttt{``Which} \ \mathtt{is} \ \mathtt{the} \ \mathtt{answer} \ \mathtt{is} \ \mathtt{the} \ \mathtt{correct} \ \mathtt{option}, \ \mathtt{select} \ \mathtt{from} \ \mathtt{option} \ \mathtt{A}, \mathtt{B}, \mathtt{C}, \mathtt{D} \ \mathtt{:}
        \n"; cin » value;
00061
                         line += temp + value + delim;
00062
00063
                     if (C == 6)
00064
                         \verb|std::cout| \verb|w| "enter the mark obtained for answering correctly: \verb|\n"|; cin| w value|;
00065
00066
                         line += temp + value + temp + delim + ';' + ' \n';
00067
                     }
00068
                }
00069
00070
           return line;
00071 }
00072
00073 void create_questions()
00074 {
00075
           std::string file name = "";
00076
           int NumberofQuestion = 0;
00077
           int QuestionParameters = 7;
00078
00079
           std::cout « "Please how many questions do you want printed/ saved to the file ?\n";
           cin » NumberofQuestion;
std::cout « "Please enter a file name to be created for questions to be printed / saved ";
getline(cin, file_name);
00080
00081
00082
00083
           getline(cin, file_name);
           file_name += ".txt";
00084
00085
00086
00087
00088
00089
00090
           std::ofstream file(file_name); //ofstream + open
00091
           if (file) //is it open?
00092
                int Qcounter = 0;
00093
                std::string input = "";
00094
00095
00096
                for (int r = 0; r < NumberofQuestion; r++)</pre>
00097
00098
                    Qcounter = r + 1;
                    file « '#' « Qcounter « '\n';
00099
00100
                         input = values(r, QuestionParameters);
00101
00102
                         file « input ;
00103
00104
00105
                file.close();
                std::cout « NumberofQuestion « " questions has been printed to : the file " « file_name «
00106
        ' \n';
00107
00108 }
00109
00110 std::vector< std::vector<std::string» read_questions(std::string filename)
00111 {
00112
           char question start = '#';
```

```
00113
          char question_end = ';';
00114
          char delim = ',';
00115
00116
          std::vector< std::vector<std::string» data;
00117
          std::vector<std::string> row;
          std::ifstream in(filename);
00118
00119
00120
          for (std::string line; getline(in, line);)
00121
              line = Remove_question_no(line, question_start);
00122
              if (line.empty()) continue;
00123
00124
              line = trim(line);
line = Replace(line, delim);
00125
00126
00127
00128
              std::stringstream ss(line);
00129
00130
              for (std::string d; ss » d; )
00131
00132
                  d = trim(d);
00133
                  row.push_back(d);
00134
00135
00136
              data.push_back(row);
00137
00138
          return data;
00139 }
00140
00141 std::vector<Question> shuffle(std::vector<Question> Tasks)
00142 {
00143
          std::vector<Ouestion> shuffled pack;
00144
          unsigned seed = std::chrono::system_clock::now().time_since_epoch().count();
00145
          std::default_random_engine s(seed);
00146
          std::shuffle(Tasks.begin(), Tasks.end(), s);
00147
00148
          return Tasks:
00149 }
00150
00151 void debug_questions(std::vector< std::vector<std::string»vect)
00152 {
00153
          for (auto i = 0; i < vect.size(); i++)</pre>
00154
00155
              for (auto j = 0; j < vect[0].size(); j++)</pre>
00156
00157
                  std::cout « vect[i][j] « " ";
00158
00159
00160
              std::cout « std::endl;
          }
00161
00162 }
00163
00164
00165
```

4.25 ReadingFile.h File Reference

```
#include <vector>
#include "Question.h"
```

Functions

- std::string values (int NumberofQuestion, int QuestionParameters)
- void create_questions ()
- std::vector< std::string >> read_questions (std::string filename)
- std::vector< Question > shuffle (std::vector< Question > Tasks)
- void debug questions (std::vector< std::vector< std::string > >vect)

4.25.1 Function Documentation

4.25.1.1 create_questions()

```
void create_questions ( )
```

It generates and creates nrows of question each quetion with a fixed ncol of property

Definition at line 73 of file ReadingFile.cpp.

4.25.1.2 debug_questions()

```
void debug_questions (
          std::vector< std::string > > vect )
```

The function debugs a matrix showing of a set of questions and all its variables on the console

Parameters

|--|

Definition at line 151 of file ReadingFile.cpp.

4.25.1.3 read_questions()

The function reads a matrix of random number from a file

Parameters

etde	trina	file_name a string variable storing the file name from which data is read
Sius	sung	ille_name a string variable storing the file flame from which data is read

Returns

std::vector< std::vector<std::string>> data returns a vector of vector matrix containing the read matrix

Definition at line 110 of file ReadingFile.cpp.

4.25.1.4 shuffle()

The function shuffles a matrix of questions and returns a shuffled version

4.26 ReadingFile.h

Parameters

std::vector <std::vector<string>></std::vector<string>	Tasks vector of vector to be shuffled
-----------------------------------------------------------	---------------------------------------

Returns

std::vector<std::vector<string>> Tasks new vector of vector after shuffling

Definition at line 141 of file ReadingFile.cpp.

4.25.1.5 values()

This function helps allocate per question the variables/properities(c) for each question.

Parameters

int	Number of Question number of rows/questions to be entered into the matrix container and saved to file (r where r1 = question 1 and properties, r2 =question 2 and properties)
int	QuestionParameters number of columns/options per question (where (c1 = quetion text),(c2-c5 = options [a, b, c, d]), the answer(c6) and the marks(c7))

Definition at line 21 of file ReadingFile.cpp.

4.26 ReadingFile.h

Go to the documentation of this file.

```
00001 #ifndef READINGFILE_H
00002 #define READINGFILE_H
00003
00003 #include <vector>
00005 #include "Question.h"
00006
00007
00008
00013 std::string values(int NumberofQuestion, int QuestionParameters);
00014
00016 void create_questions();
00017
00023 std::vector< std::vector<std::string» read_questions(std::string filename);
00024
00025
00031 std::vector<Question> shuffle(std::vector<Question> Tasks);
00032
00037 void debug_questions(std::vector< std::vector<std::string»vect);
00038
00039 #endif
```

4.27 StringManipulators.cpp File Reference

```
#include <string>
#include <algorithm>
#include "StringManipulators.h"
```

Functions

- std::string Remove question no (std::string &line, char &question start)
- std::string Replace (std::string &line, char &delim)
- std::string trim (const std::string s)

4.27.1 Function Documentation

4.27.1.1 Remove_question_no()

The function evaluates a line and extraxts line if the variable in the memory location @hash is encountered

Parameters

std::string	&line ampersand to address of line to be evaluated
char	& question_start variable of character that triggers an extraction of line

Returns

std::string Line returns a string with substring from the line

Definition at line 6 of file StringManipulators.cpp.

4.27.1.2 Replace()

The function evaluates a line and replaces delimeters or separators with white space

Parameters

std::string&	line ampersand to address of line to be evaluated
char&	delim ampersand to address of with chararacter of delimiter to be evaluate

Returns

std::string Line returns a string with the edited line

Definition at line 16 of file StringManipulators.cpp.

4.27.1.3 trim()

```
std::string trim ( const std::string s )
```

The function evaluates a line and returns a string of words without - "" or; used as boundary marks within a question

Parameters

```
std::string s string of texts to be trimmed
```

Returns

std::string s returns a string with the edited line

Definition at line 22 of file StringManipulators.cpp.

4.28 StringManipulators.cpp

Go to the documentation of this file.

```
00001 #include <string>
00002 #include <algorithm>
00003
00004 #include "StringManipulators.h"
00005
00006 std::string Remove_question_no(std::string& line, char& question_start)
00007 {
           const auto pos = line.find(question_start);
80000
           if (pos != std::string::npos)
00009
00010
          {
00011
               line = line.substr(0, pos);
00012
00013
           return line;
00014 }
00015
00016 std::string Replace(std::string& line, char& delim)
00017 {
00018
           replace(line.begin(), line.end(), delim, '');
00019
           return line;
00020 }
00021
00022 std::string trim(const std::string s)
00023 {
          std::size_t first = s.find_first_not_of("\"");
std::size_t last = s.find_last_not_of("\";\\");
00024
00025
          return s.substr(first, (last - first + 1));
00026
00027 }
00028
00029
```

4.29 StringManipulators.h File Reference

Functions

- std::string Remove_question_no (std::string &line, char &question_start)
- std::string Replace (std::string &line, char &delim)
- std::string trim (const std::string s)

4.29.1 Function Documentation

4.29.1.1 Remove question no()

The function evaluates a line and extraxts line if the variable in the memory location @hash is encountered

Parameters

std::string	&line ampersand to address of line to be evaluated
char	& question_start variable of character that triggers an extraction of line

Returns

std::string Line returns a string with substring from the line

Definition at line 6 of file StringManipulators.cpp.

4.29.1.2 Replace()

The function evaluates a line and replaces delimeters or separators with white space

Parameters

std::string&	line ampersand to address of line to be evaluated
char&	delim ampersand to address of with chararacter of delimiter to be evaluate

Returns

std::string Line returns a string with the edited line

Definition at line 16 of file StringManipulators.cpp.

4.29.1.3 trim()

```
std::string trim ( const std::string s )
```

The function evaluates a line and returns a string of words without - "" or; used as boundary marks within a question

Parameters

```
std::string s string of texts to be trimmed
```

Returns

std::string s returns a string with the edited line

Definition at line 22 of file StringManipulators.cpp.

4.30 StringManipulators.h

Go to the documentation of this file.

```
00001 #ifndef STRINGMANIPULATORS_H
00002 #define STRINGMANIPULATORS_H
00003
00004
00005
00012 std::string Remove_question_no(std::string& line, char& question_start);
00013
00020 std::string Replace(std::string& line, char& delim);
00021
00021 std::string trim(const std::string s);
00028
00029
00030 #endif
00031
00032
00033
```

Index

convert	Enum.h, 16
DifficultyLevel.cpp, 13	
DifficultyLevel.h, 14	other
create_questions	Enum.cpp, 15
ReadingFile.cpp, 27	Enum.h, 16
ReadingFile.h, 31	Discoura 5
	Player, 5
debug_questions	Player, 5
ReadingFile.cpp, 28	Player_inputdata, 6
ReadingFile.h, 32	Player_play, 6
DifficultyLevel.cpp, 13	Player.cpp, 17
convert, 13	Player.h, 21
DifficultyLevel.h, 14	PLAYER_H, 22
convert, 14	PLAYER_H
DIFFICULTYLEVL_H, 14	Player.h, 22
DIFFICULTYLEVL_H	Player_inputdata
DifficultyLevel.h, 14	Player, 6
	Player_play
Enum.cpp, 15	Player, 6
Game_level, 15	
hard, 15	q1
medium, 15	quiz_question, 9
other, 15	q10
simple, 15	quiz_question, 10
Enum.h, 16	q2
ENUM_H, 16	quiz_question, 10
Game_level, 16	q3
hard, 16	quiz_question, 10
medium, 16	q4
other, 16	quiz_question, 10
simple, 16	q5
ENUM H	quiz_question, 10
Enum.h, 16	q6
Evaluate_ans	quiz_question, 10
Question, 8	q7
Question.cpp, 22	quiz_question, 11
• • •	q8
Game_level	quiz_question, 11
Enum.cpp, 15	q9
Enum.h, 16	quiz_question, 11
Get_answer	Question, 6
Question, 8	Evaluate_ans, 8
	Get_answer, 8
hard	Question, 7
Enum.cpp, 15	Question_set, 8
Enum.h, 16	Question.cpp, 22
	Evaluate ans, 22
main	Question.h, 24
Quiz.cpp, 26	QUESTION H, 24
medium	QUESTION_H, 24
Enum.cpp, 15	QUESTION_FI

40 INDEX

Question.h, 24 Question_set Question, 8 QuestionSet.cpp, 25	trim StringManipulators.cpp, 35 StringManipulators.h, 37 values
QuestionSet.h, 25 STRUCT_H, 25 Quiz.cpp, 26 main, 26	ReadingFile.cpp, 29 ReadingFile.h, 33
quiz_question, 9 q1, 9 q10, 10 q2, 10 q3, 10 q4, 10 q5, 10 q6, 10 q7, 11 q8, 11 q9, 11	
read_questions ReadingFile.cpp, 28 ReadingFile.h, 32	
ReadingFile.cpp, 27 create_questions, 27 debug_questions, 28 read_questions, 28 shuffle, 28 values, 29	
ReadingFile.h, 31 create_questions, 31 debug_questions, 32 read_questions, 32 shuffle, 32 values, 33	
Remove_question_no StringManipulators.cpp, 34 StringManipulators.h, 36	
Replace StringManipulators.cpp, 34 StringManipulators.h, 36	
shuffle ReadingFile.cpp, 28 ReadingFile.h, 32	
simple Enum.cpp, 15 Enum.h, 16	
StringManipulators.cpp, 34 Remove_question_no, 34 Replace, 34 trim, 35	
StringManipulators.h, 36 Remove_question_no, 36 Replace, 36 trim, 37	
STRUCT_H QuestionSet.h. 25	