QTypingTest 0.0.1

Generated by Doxygen 1.8.11

Contents

1	Qtyp	ping tes	t		1
2	Nam	nespace	Index		3
	2.1	Names	space List		3
3	Hier	archica	l Index		5
	3.1	Class	Hierarchy		5
4	Clas	ss Index	T		7
	4.1	Class	List		7
5	File	Index			9
	5.1		st		9
6	Nam	nesnace	Docume	ntation	11
•	6.1	•		ace Reference	11
	0.1	6.1.1		Documentation	11
		0.1.1	6.1.1.1	findClosestSpace(const QString &search, int indexStart)	11
			6.1.1.2	findExistingWords(QString authorizedLetters, QString filename, QString must⇔	
			0.1.1.2	Contain="""")	11
			6.1.1.3	generateFromLetters(QStringList letterList, int length=50)	12
			6.1.1.4	generateLearning(QStringList mainLetter, QStringList allLetters)	12
			6.1.1.5	generatePractice(QStringList letters, bool onlyRealWords=true)	12
			6.1.1.6	generateWords(QString authorizedLetters, QString language, QString main← Letters="""")	13
			6.1.1.7	selectRandomElement(QStringList listString)	13
			6.1.1.8	splitText(QString toSplit, int numberOfSplit)	13
	6.2	file Na	mespace	Reference	14
		6.2.1	Function	Documentation	14
			6.2.1.1	getPadlockIcon(bool open)	14
			6.2.1.2	getStylesheet(QString stylesheetname)	14
			6.2.1.3	getWordsPath(QString lang)	14
	6.3	html N	amespace	Reference	14
		631	Function	Documentation	15

iv CONTENTS

			6.3.1.1	addTags(QString &strToTag, QString tags, QString attributes="""")	15
			6.3.1.2	addTagToChars(QString strtToTag, QString tag, QString attributes="""")	15
			6.3.1.3	getAbsoluteCharPosition(QString string, int relativePos)	15
			6.3.1.4	removeTag(QString &strToClean, QString tag=""([^ $>$]*)"")	16
	6.4	Ui Nan	nespace R	Reference	16
7	Class	s Docu	mentation	1	17
	7.1	date_e	xercice_S	Struct Reference	17
		7.1.1	Member	Data Documentation	17
			7.1.1.1	dateResult	17
			7.1.1.2	exercice	17
	7.2	LearnF	Page Class	s Reference	17
		7.2.1	Construc	ctor & Destructor Documentation	18
			7.2.1.1	LearnPage(QWidget *parent=0)	18
			7.2.1.2	LearnPage(const LearnPage &orig)	18
			7.2.1.3	~LearnPage()	18
		7.2.2	Member	Function Documentation	18
			7.2.2.1	endExercice	18
			7.2.2.2	lauchExercice	18
			7.2.2.3	resetExercice	18
	7.3	Ui::Ma	inWindow	Class Reference	18
	7.4	Practic	ePage Cla	ass Reference	18
		7.4.1	Construc	otor & Destructor Documentation	19
			7.4.1.1	PracticePage(QWidget *parent=0)	19
			7.4.1.2	PracticePage(const PracticePage &orig)	19
			7.4.1.3	~PracticePage()	19
		7.4.2	Member	Function Documentation	19
			7.4.2.1	saveExerciceResult	19
			7.4.2.2	startAgainstTime	19
	7.5	TestLe	arnDialog	Class Reference	19
	7.6	TestPra	acticeRace	e Class Reference	20
	7.7	TestPro	ogression	Class Reference	20
	7.8	TestTU	Jser Class	Reference	20
	7.9	TestUti	ils Class R	Reference	20
	7.10	TExerc	cice Class	Reference	21
		7.10.1	Detailed	Description	21
		7.10.2	Member	Enumeration Documentation	21
			7.10.2.1	EXERCICE_TYPE	21
		7.10.3	Construc	ctor & Destructor Documentation	21

CONTENTS

		7.10.3.1	TExercice(EXERCICE_TYPE exType, QStringList availableLetters)	
		7.10.3.2	TExercice(EXERCICE_TYPE exType, bool allLetters)	
		7.10.3.3	TExercice(const TExercice &orig)	
		7.10.3.4	~TExercice()	
	7.10.4	Member	Function Documentation	
		7.10.4.1	buildExercice() const	
7.11	THome	Page Clas	ss Reference	
	7.11.1	Construc	tor & Destructor Documentation	
		7.11.1.1	THomePage(QWidget *parent=0)	
		7.11.1.2	~THomePage()	
	7.11.2	Member	Function Documentation	
		7.11.2.1	getUser()	
	7.11.3	Member	Data Documentation	
		7.11.3.1	currentUser	
7.12	TKeys	Class Refe	erence	
	7.12.1	Construc	tor & Destructor Documentation	
		7.12.1.1	TKeys()	
		7.12.1.2	~TKeys()	
	7.12.2	Member	Function Documentation	
		7.12.2.1	isValidLetter(int letterCode)	
		7.12.2.2	validLetters()	
7.13	TLabel	Class Ref	ierence	
	7.13.1	Construc	tor & Destructor Documentation	
		7.13.1.1	TLabel(QString text, QWidget *parent=0)	
		7.13.1.2	~TLabel()	
	7.13.2	Member	Function Documentation	
		7.13.2.1	eraseOverflow	
		7.13.2.2	nextChar(bool currendIsCorrect)	
		7.13.2.3	previousChar()	
		7.13.2.4	setFirst()	
7.14	TPage		erence	
			tor & Destructor Documentation	
		7.14.1.1	TPage(QWidget *parent=0)	
		7.14.1.2	TPage(QString model, QWidget *parent)	
		7.14.1.3	TPage(QString model)	
	7.14.2		Function Documentation	
		7.14.2.1	endedPage	
		7.14.2.2	eraseAnswer	
		7.14.2.3	getResult()	
			90000	

vi

	7.14.2.4	startedPage	25
	7.14.2.5	text()	26
	7.14.2.6	typingAnswer	26
	7.14.2.7	update(QKeyEvent *ev)	26
	7.14.2.8	updateAsFirst()	26
TPracti	cal Class I	Reference	26
7.15.1	Member I	Enumeration Documentation	26
	7.15.1.1	DIFFICULTY	26
7.15.2	Construct	tor & Destructor Documentation	27
	7.15.2.1	TPractical()	27
	7.15.2.2	TPractical(const TPractical &orig)	27
	7.15.2.3	\sim TPractical()	27
TPracti	ce Class F	Reference	27
7.16.1	Detailed I	Description	27
7.16.2	Member I	Enumeration Documentation	27
	7.16.2.1	KEYBOARD_LAYOUT	27
7.16.3	Construct	tor & Destructor Documentation	28
	7.16.3.1	~TPractice()	28
7.16.4	Member I	Function Documentation	28
	7.16.4.1	getAllLettersTo(int lastIndex=-1)	28
	7.16.4.2	getInstance()	28
	7.16.4.3	getLetterList()	28
	7.16.4.4	getLettersAt(int index)	28
TPracti	ceRace Cl	lass Reference	28
7.17.1	Construct	tor & Destructor Documentation	28
	7.17.1.1	TPracticeRace(QWidget *parent=0)	28
	7.17.1.2	TPracticeRace(TExercice *generator, QWidget *parent=0)	29
	7.17.1.3	TPracticeRace(const TPracticeRace &orig)	29
	7.17.1.4	~TPracticeRace()	29
7.17.2	Member I	Function Documentation	29
	7.17.2.1	createPage	29
	7.17.2.2	exerciceGenerator() const	29
	7.17.2.3	updateClock	29
TProgre	ession Cla	ass Reference	29
7.18.1	Detailed I	Description	29
7.18.2	Construct	tor & Destructor Documentation	29
	7.18.2.1	TProgression()	29
	7.18.2.2	TProgression(const TProgression &orig)	29
	7.18.2.3	\sim TProgression()	30
7.18.3	Member I	Function Documentation	30
	7.15.1 7.15.2 TPracti 7.16.1 7.16.2 7.16.3 7.16.4 TPracti 7.17.1 7.17.2 TProgra 7.18.1 7.18.2	7.14.2.5 7.14.2.6 7.14.2.7 7.14.2.8 TPractical Class 7.15.1 Member 7.15.1.1 7.15.2 Construct 7.15.2.1 7.15.2.2 7.15.2.3 TPractice Class F 7.16.1 Detailed 7.16.2 Member 7.16.2.1 7.16.3 Construct 7.16.3.1 7.16.4 Member 7.16.4.1 7.16.4.2 7.16.4.3 7.16.4.4 TPracticeRace C 7.17.1 Construct 7.17.1.1 7.17.1.2 7.17.1.3 7.17.1.4 7.17.2 7.17.1.3 7.17.1.4 7.17.2.1 7.17.2.2 7.17.2.3 TProgression Cla 7.18.1 Detailed 7.18.2.1 7.18.2.2 7.18.2.3	7.14.2.5 text() 7.14.2.6 typingAnswer 7.14.2.7 update(QKeyEvent *ev) 7.14.2.8 updateAsFirst(). Practical Class Reference 7.15.1 Member Enumeration Documentation 7.15.1.1 DIFFICULTY 7.15.2 Constructor & Destructor Documentation 7.15.2.1 TPractical() 7.15.2.2 TPractical(const TPractical &orig) 7.15.2.3 ~TPractical() 7.15.2.3 ~TPractical() 7.16.1 Detailed Description 7.16.2 Member Enumeration Documentation 7.16.2.1 KEYBOARD_LAYOUT 7.16.3 Constructor & Destructor Documentation 7.16.4.1 Captable Tractical() 7.16.4.2 getInstance() 7.16.4.3 getLetterSt0(int lastIndex=*1) 7.16.4.2 getInstance() 7.16.4.3 getLetterList() 7.16.4.4 getLetterSt((int index)) TPracticeRace Class Reference 7.17.1 Constructor & Destructor Documentation 7.17.1.1 TPracticeRace(QWidget *parent=0) 7.17.1.2 TPracticeRace(Const TPracticeRace &orig) 7.17.1.4 ~TPracticeRace() 7.17.2 Member Function Documentation 7.17.1.1 TPracticeRace(const TPracticeRace &orig) 7.17.1.2 TPracticeRace() 7.17.2 Member Function Documentation 7.17.1.1 TPracticeRace(const TPracticeRace &orig) 7.17.1.2 TPracticeRace() 7.17.2 Member Function Documentation 7.17.1.1 TPracticeRace() 7.17.2 Member Function Documentation 7.17.1.1 TPracticeRace() 7.17.2 Member Function Documentation 7.17.2.1 createPage 7.17.2.2 exerciceGenerator() const 7.17.2.3 updateClock TProgression Class Reference 7.18.1 Detailed Description 7.18.2 Constructor & Destructor Documentation 7.18.2 TProgression()

CONTENTS vii

		7.18.3.1	avdvanceExIndex()	30
		7.18.3.2	getLastExericeIndex() const	30
		7.18.3.3	setLastExerciceIndex(int exIndex)	30
7.19	TResul	t Class Re	ference	30
	7.19.1	Detailed I	Description	30
	7.19.2	Construc	tor & Destructor Documentation	30
		7.19.2.1	TResult()	30
		7.19.2.2	TResult(const TResult &base)	30
		7.19.2.3	~TResult()	30
	7.19.3	Member I	Function Documentation	31
		7.19.3.1	getCorrectKeysStrokes() const	31
		7.19.3.2	getCorrectWords() const	31
		7.19.3.3	getResume()	31
		7.19.3.4	getTotalKeysStokres() const	31
		7.19.3.5	getTotalWords() const	31
		7.19.3.6	getWPM()	31
		7.19.3.7	getWrongKeysStrokes() const	31
		7.19.3.8	getWrongWords() const	31
		7.19.3.9	incrCorrectKeystrokes(int incrementation)	31
		7.19.3.10	incrWrongKeyStrokes(int incrementation)	31
		7.19.3.11	operator+(const TResult &otherRes)	31
		7.19.3.12	operator+=(const TResult &otherRes)	31
		7.19.3.13	setCorrectKeysStrokes(int correctKeysStrokes)	31
		7.19.3.14	setWrongKeysStrokes(int wrongKeysStrokes)	31
		7.19.3.15	updateWPM(float deltaTime)	31
7.20	TStack	Pages Cla	ss Reference	31
	7.20.1	Construc	tor & Destructor Documentation	32
		7.20.1.1	TStackPages(QWidget *parent=0)	32
		7.20.1.2	TStackPages(const TStackPages &orig)	32
		7.20.1.3	TStackPages(const QString &text, int numberOfPages=1, QWidget *parent=0) .	32
		7.20.1.4	~TStackPages()	32
	7.20.2	Member I	Function Documentation	32
		7.20.2.1	addPage(QString pageText, bool isFirst=false)	32
		7.20.2.2	beginExercice	32
		7.20.2.3	currentPage() const	32
		7.20.2.4	exerciceStarted	32
		7.20.2.5	getText() const	32
		7.20.2.6	keyPressed	32
		7.20.2.7	nextPage	33
		7.20.2.8	numberOfPages() const	33

viii CONTENTS

		7.20.2.9	pageEnded	33
		7.20.2.10	setFollowingPage()	33
		7.20.2.11	textFinished	33
7.21	TStats	Class Ref	erence	33
	7.21.1	Construc	tor & Destructor Documentation	34
		7.21.1.1	TStats()	34
		7.21.1.2	TStats(const TStats &orig)	34
		7.21.1.3	~TStats()	34
	7.21.2	Member	Function Documentation	34
		7.21.2.1	add(const TStats &otherStat)	34
		7.21.2.2	operator+(const TStats &otherStat)	34
		7.21.2.3	operator+=(const TStats &otherStat)	34
7.22	TToolb	ar Class R	eference	34
	7.22.1	Construc	tor & Destructor Documentation	35
		7.22.1.1	TToolbar(QWidget *parent=0)	35
		7.22.1.2	TToolbar(const TToolbar &orig)	35
		7.22.1.3	\sim TToolbar()	35
	7.22.2	Member	Function Documentation	35
		7.22.2.1	incrementTimer	35
		7.22.2.2	pauseClicked	35
		7.22.2.3	pauseTimer	35
		7.22.2.4	setLCDDisplayValue(double value)	35
		7.22.2.5	setProgression(QString text)	35
7.23	TUser	Class Refe	erence	35
	7.23.1	Construc	tor & Destructor Documentation	36
		7.23.1.1	TUser(QString pseudo="""")	36
		7.23.1.2	~TUser()	36
	7.23.2	Member	Function Documentation	36
		7.23.2.1	addResult(TExercice *exTyp, TResult *exRes)	36
		7.23.2.2	getPracticeHistory() const	36
		7.23.2.3	getProgression() const	36
		7.23.2.4	getPseudo() const	36
		7.23.2.5	getStatistics() const	36
		7.23.2.6	oneMoreMistake(const QChar &mistaken)	36
		7.23.2.7	setPseudo(QString pseudo)	36
7.24	TWind	owLearn C	Class Reference	36
	7.24.1	Construc	tor & Destructor Documentation	37
		7.24.1.1	TWindowLearn(QString model, QWidget *parent=0)	37
		7.24.1.2	TWindowLearn(QString model, int numberOfPages, QWidget *parent=0)	37
		7.24.1.3	\sim TWindowLearn()	37

CONTENTS

	7.24.2	Member F	unction Documentation	37
		7.24.2.1	updateClock()	37
7.25	TWindo	wTest Clas	s Reference	37
	7.25.1	Constructo	or & Destructor Documentation	39
		7.25.1.1	TWindowTest(QWidget *parent=0)	39
		7.25.1.2	TWindowTest(QString text, QWidget *parent=0)	39
		7.25.1.3	TWindowTest(QString text, int numberOfPages, QWidget *parent=0)	39
		7.25.1.4	~TWindowTest()	39
	7.25.2	Member F	unction Documentation	39
		7.25.2.1 I	beginExercice	39
		7.25.2.2	closed	39
		7.25.2.3	closeEvent(QCloseEvent *ev)	39
		7.25.2.4	endOfExercice	39
		7.25.2.5	exerciceFinished	39
		7.25.2.6	exerciceResult()	39
		7.25.2.7	getPageProgression()	40
		7.25.2.8	keyPressEvent(QKeyEvent *ev)	40
		7.25.2.9	moveEvent(QMoveEvent *ev)	40
		7.25.2.10	pauseContinueExercice	40
		7.25.2.11	saveResult	40
		7.25.2.12	setTimers(int timeLimit)	40
		7.25.2.13	setupShortcuts()	40
		7.25.2.14	setupTimer()	41
		7.25.2.15	setupWidget()	41
		7.25.2.16	stackPages() const	41
		7.25.2.17	toolBar() const	41
		7.25.2.18	updateClock	41
		7.25.2.19	updateToolbarProgression	41
	7.25.3	Member D	ata Documentation	41
		7.25.3.1	pages	41
		7.25.3.2	results	41
		7.25.3.3	topToolbar	41
7.26	Ui_Mair	nWindow C	lass Reference	41
	7.26.1	Member F	unction Documentation	42
		7.26.1.1	retranslateUi(QMainWindow *MainWindow)	42
		7.26.1.2	setupUi(QMainWindow *MainWindow)	42
	7.26.2	Member D	ata Documentation	42
		7.26.2.1	actionChange_user	42
		7.26.2.2	actionChange_user_2	42
		7.26.2.3	actionHomepage	42

CONTENTS

		7.26.2.4 actionLanguage	 42
		7.26.2.5 actionMap_keyboard	 42
		7.26.2.6 actionOnline_competitoin	 42
		7.26.2.7 actionOthers	 43
		7.26.2.8 actionPreferences	 43
		7.26.2.9 actionText_practice	 43
		7.26.2.10 button_games	 43
		7.26.2.11 button_home	 43
		7.26.2.12 button_learn	 43
		7.26.2.13 button_practice	 43
		7.26.2.14 button_stats	 43
		7.26.2.15 centralwidget	 43
		7.26.2.16 gridLayout_2	 43
		7.26.2.17 horizontalLayout_2	 43
		7.26.2.18 label_3	 43
		7.26.2.19 label_4	 43
		7.26.2.20 menuAbout	 43
		7.26.2.21 menubar	 43
		7.26.2.22 menuOptions	 43
		7.26.2.23 menuUser	 43
		7.26.2.24 page_games	 43
		7.26.2.25 page_home	 43
		7.26.2.26 page_learn	 43
		7.26.2.27 page_practice	 43
		7.26.2.28 page_stats	 43
		7.26.2.29 stack_main	 43
		7.26.2.30 statusbar	 43
		7.26.2.31 verticalLayout	 43
		7.26.2.32 verticalLayoutWidget	 43
8	File	Documentation	45
٠	8.1	doxygen.txt File Reference	45
	8.2	etc/words/en.txt File Reference	45
	8.3	etc/words/fr.txt File Reference	45
	8.4	README.md File Reference	45
	8.5	src/Data/texercice.cpp File Reference	45
	8.6	src/Data/texercice.h File Reference	45
	8.7	src/Data/tkeys.cpp File Reference	45
	8.8	src/Data/tkeys.h File Reference	46
	8.9	src/Data/tpractical.cpp File Reference	46
	5.5		 .0

CONTENTS xi

8.10	src/Data/	tpractical/	.h File Reference	46
8.11	src/Data/	tpractice.	cpp File Reference	46
8.12	src/Data/	tpractice.	h File Reference	46
8.13	src/Data/	tprogress/	sion.cpp File Reference	46
	8.13.1 F	unction [Documentation	47
	8	3.13.1.1	operator << (QDataStream &out, const TProgression &prog)	47
	8	3.13.1.2	operator==(const TProgression &prog1, const TProgression &prog2)	47
	8	3.13.1.3	operator>>(QDataStream ∈, TProgression &prog)	47
8.14	src/Data/	tprogress/	sion.h File Reference	47
	8.14.1 F	Function [Documentation	47
	8	3.14.1.1	operator<<<(QDataStream &out, const TProgression &prog)	47
	8	3.14.1.2	operator==(const TProgression &prog1, const TProgression &prog2)	47
	8	3.14.1.3	operator>>(QDataStream ∈, TProgression &prog)	47
8.15	src/Data/	tresult.cp/	p File Reference	47
8.16	src/Data/	tresult.h	File Reference	47
8.17	src/Data/	tstats.cpt/	File Reference	47
8.18	src/Data/	tstats.h F	ile Reference	48
8.19	src/Data/	tuser.cpp/	File Reference	48
	8.19.1 F	Function [Documentation	48
	8	3.19.1.1	operator<<<(QDataStream &out, const TUser &user)	48
	8	3.19.1.2	operator>>(QDataStream ∈, TUser &user)	48
8.20	src/Data/	/tuser.h F	ile Reference	48
	8.20.1 F	unction [Documentation	49
	8	3.20.1.1	operator<<(QDataStream &out, const TUser &user)	49
	8	3.20.1.2	operator==(const TUser &user1, const TUser &user2)	49
	8	3.20.1.3	operator>>(QDataStream ∈, TUser &user)	49
8.21	src/main.	.cpp File	Reference	49
	8.21.1 F	unction [Documentation	49
	8	3.21.1.1	main(int argc, char *argv[])	49
8.22	src/QTyp	ingTest/D	bialogs/Exercices/tlabel.cpp File Reference	49
8.23	src/QTyp	ingTest/D	Dialogs/Exercices/tlabel.h File Reference	49
8.24	src/QTyp	ingTest/D	Dialogs/Exercices/tpage.cpp File Reference	49
8.25	src/QTyp	ingTest/D	Dialogs/Exercices/tpage.h File Reference	50
8.26	src/QTyp	ingTest/D	Dialogs/Exercices/tpracticerace.cpp File Reference	50
8.27	src/QTyp	ingTest/D	Dialogs/Exercices/tpracticerace.h File Reference	50
8.28	src/QTyp	ingTest/D	tialogs/Exercices/tstackpages.cpp File Reference	50
8.29	src/QTyp	ingTest/D	Dialogs/Exercices/tstackpages.h File Reference	51
8.30	src/QTyp	ingTest/D	Dialogs/Exercices/ttoolbar.cpp File Reference	51
8.31	src/QTyp	ingTest/D	Dialogs/Exercices/ttoolbar.h File Reference	51
8.32	src/QTyp	ingTest/D	bialogs/Exercices/twindowlearn.cpp File Reference	51

xii CONTENTS

	src/QTypingTest/Dialogs/Exercices/twindowlearn.h File Reference	51
8.34	src/QTypingTest/Dialogs/twindowtest.cpp File Reference	52
8.35	src/QTypingTest/Dialogs/twindowtest.h File Reference	52
8.36	src/QTypingTest/Learn/learnpage.cpp File Reference	52
8.37	src/QTypingTest/Learn/learnpage.h File Reference	53
	8.37.1 Macro Definition Documentation	53
	8.37.1.1 MAX_COL	53
8.38	src/QTypingTest/Practice/practicepage.cpp File Reference	53
8.39	src/QTypingTest/Practice/practicepage.h File Reference	53
8.40	src/QTypingTest/thomepage.cpp File Reference	54
8.41	src/QTypingTest/thomepage.h File Reference	54
8.42	src/ui/ui_homepage.h File Reference	54
8.43	src/Util/factory.cpp File Reference	55
	8.43.1 Function Documentation	55
	8.43.1.1 isValidWord(QString word, QString availableLetters)	55
	8.43.1.2 randomNextSpace()	55
	8.43.1.3 readFile(QString fileName)	55
	8.43.1.4 wordsContains(QStringList words, QString contains)	55
	8.43.2 Variable Documentation	55
	8.43.2.1 numberOfWords	55
8.44	src/Util/factory.h File Reference	56
8.45	src/Util/filehelper.cpp File Reference	56
	8.45.1 Variable Documentation	
		56
	8.45.1.1 ETC_PATH	56 56
	8.45.1.1 ETC_PATH	
		56
8.46	8.45.1.2 WORDS_EXT	56 56
8.46	8.45.1.2 WORDS_EXT	56 56 56
8.46	8.45.1.2 WORDS_EXT	56 56 56 56
8.46	8.45.1.2 WORDS_EXT	56 56 56 56 57
8.46	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH	56 56 56 56 57 57
	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT	56 56 56 57 57
	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH	56 56 56 57 57 57
	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference	56 56 56 57 57 57 57
8.47	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference 8.47.1 Function Documentation	56 56 56 57 57 57 57 57
8.47	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference 8.47.1 Function Documentation 8.47.1.1 surroundOfTags(QStringList tags, QString attributes)	56 56 56 57 57 57 57 57
8.47 8.48 8.49	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference 8.47.1 Function Documentation 8.47.1.1 surroundOfTags(QStringList tags, QString attributes) src/Util/htmlhelper.h File Reference	56 56 56 57 57 57 57 57 57
8.47 8.48 8.49 8.50	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference 8.47.1 Function Documentation 8.47.1.1 surroundOfTags(QStringList tags, QString attributes) src/Util/htmlhelper.h File Reference tests/TestLearnDialog/testlearndialog.cpp File Reference	56 56 56 57 57 57 57 57 57 58 58
8.48 8.49 8.50 8.51	8.45.1.2 WORDS_EXT 8.45.1.3 WORDS_PATH src/Util/filehelper.h File Reference 8.46.1 Variable Documentation 8.46.1.1 ETC_PATH 8.46.1.2 WORDS_EXT 8.46.1.3 WORDS_PATH src/Util/htmlhelper.cpp File Reference 8.47.1 Function Documentation 8.47.1.1 surroundOfTags(QStringList tags, QString attributes) src/Util/htmlhelper.h File Reference tests/TestLearnDialog/testlearndialog.cpp File Reference tests/TestPracticeRace/testpracticerace.cpp File Reference	56 56 56 57 57 57 57 57 57 58 58 58

CONTENTS								 								 		xiii
8.5	3.1 Varia	ıble [Doc	umer	ntatio	on		 	 				 					60
	8.53	1.1	alll	_ette	rs .				 				 					60
Index																		61

Qtyping test

QTypingTest is a software developed with Qt. It teaches you how to type faster. You can also practice some random words just to improve your speed. Some statistics will be made to see your progression and you will be able to train on exercice composed of the letters you make the most mistake on.

This project is realized for a university project

Learn

You can start from scratch and learn the position of the keys on you keyboard. Step by step.

Practice

You have to type words. The difference with the learning exercises, is that there are only existing words. Not random-generated words.

Text practice

Instead of typing series of random words, you have to type a real text. This exercise is the closest one to the reality.

Previews

2 Qtyping test

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

tac	tor	ry				 	 								 									 				11
file						 	 	 							 									 				14
htn	ηl					 	 	 							 									 				14
Ui						 	 	 							 									 				16

4 Namespace Index

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

date_exercice 1	17
QDialog	
TWindowTest	37
TPracticeRace	28
TWindowLearn	36
QHash	
TStats	33
QLabel	
TLabel	23
QMainWindow	
THomePage	22
QObject	
TestLearnDialog	9
TestPracticeRace	20
TestProgression	20
TestTUser	20
TestUtils	20
QStackedWidget	
TStackPages	31
QWidget	
LearnPage	
PracticePage	8
TPage	
TToolbar	34
	21
,	23
TPractical	26
	27
o de la companya de	29
	30
	35
Ui_MainWindow	11
Ui::MainWindow	8

6 Hierarchical Index

Class Index

4.1 Class List

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

date_exercice	17
LearnPage	17
Ui::MainWindow	18
PracticePage	18
TestLearnDialog	19
TestPracticeRace	20
TestProgression	20
TestTUser	20
TestUtils	20
TExercice	21
THomePage	22
TKeys	23
TLabel	23
TPage	24
TPractical	26
TPractice	27
TPracticeRace	28
TProgression	29
TResult	30
TStackPages	31
TStats	33
TToolbar	34
TUser	35
TWindowLearn	36
TWindowTest	37
LT: Maria Milanda and	4.4

8 Class Index

File Index

5.1 File List

Here is a list of all files with brief descriptions:

src/main.cpp
src/Data/texercice.cpp
src/Data/texercice.h
src/Data/tkeys.cpp
src/Data/tkeys.h
src/Data/tpractical.cpp
src/Data/tpractical.h
src/Data/tpractice.cpp
src/Data/tpractice.h
src/Data/tprogression.cpp
src/Data/tprogression.h
src/Data/tresult.cpp
src/Data/tresult.h
src/Data/tstats.cpp
src/Data/tstats.h
src/Data/tuser.cpp
src/Data/tuser.h
src/QTypingTest/thomepage.cpp
src/QTypingTest/thomepage.h
src/QTypingTest/Dialogs/twindowtest.cpp
src/QTypingTest/Dialogs/twindowtest.h
src/QTypingTest/Dialogs/Exercices/tlabel.cpp
src/QTypingTest/Dialogs/Exercices/tlabel.h
src/QTypingTest/Dialogs/Exercices/tpage.cpp
src/QTypingTest/Dialogs/Exercices/tpage.h
src/QTypingTest/Dialogs/Exercices/tpracticerace.cpp
src/QTypingTest/Dialogs/Exercices/tpracticerace.h
src/QTypingTest/Dialogs/Exercices/tstackpages.cpp
src/QTypingTest/Dialogs/Exercices/tstackpages.h
src/QTypingTest/Dialogs/Exercices/ttoolbar.cpp
src/QTypingTest/Dialogs/Exercices/ttoolbar.h
src/QTypingTest/Dialogs/Exercices/twindowlearn.cpp
src/QTypingTest/Dialogs/Exercices/twindowlearn.h
src/QTypingTest/Learn/learnpage.cpp
src/QTypingTest/Learn/learnpage.h
src/QTypingTest/Practice/practicepage.cpp
src/QTypingTest/Practice/practicepage.h
src/ui/ui homenage h

10 File Index

src/Util/factory.cpp	55
src/Util/factory.h	56
src/Util/filehelper.cpp	56
src/Util/filehelper.h	56
src/Util/htmlhelper.cpp	57
src/Util/htmlhelper.h	58
tests/TestLearnDialog/testlearndialog.cpp	58
tests/TestPracticeRace/testpracticerace.cpp	58
tests/TestProgression/testprogression.cpp	59
tests/TestUser/testuser.cpp	59
tests/TestUtils/testutils.cpp	59

Namespace Documentation

6.1 factory Namespace Reference

Functions

- QString generateLearning (QStringList mainLetter, QStringList allLetters)
- QString generatePractice (QStringList letters, bool onlyRealWords=true)
- QString generateFromLetters (QStringList letterList, int length=50)
- QString generateWords (QString authorizedLetters, QString language, QString mainLetters="")
- QStringList findExistingWords (QString authorizedLetters, QString filename, QString mustContain="")
- QString selectRandomElement (QStringList listString)
- int findClosestSpace (const QString &search, int indexStart)
- QStringList splitText (QString toSplit, int numberOfSplit)

6.1.1 Function Documentation

6.1.1.1 int factory::findClosestSpace (const QString & search, int indexStart)

Helper to find the closest space in a list of string to the be able to break the list at a space, instead of breaking in the midlle of a string

Parameters

search	the list of string containing spaces
indexStart	the index where to start the reserach

Returns

the index of the closest space in the list from indexStart

6.1.1.2 QStringList factory::findExistingWords (QString authorizedLetters, QString filename, QString mustContain = " ")

Will look into a file (depending on the chosen langage) and will find all the words that can be created with the given letters

Parameters

authorizedLetters	the letters that can compose the words
fileName	the path to the file containing all the words

Parameters

in a Qstring of letters that MUST be in the word
--

Returns

a list of word that can be created with the given letters

6.1.1.3 QString factory::generateFromLetters (QStringList letterList, int length = 50)

Generate some random words with the available letters given in the list

Parameters

letterList	a list of 'authorized' letters
length	length of the result string

Returns

a string with random words proposed in the given string list in parameter

6.1.1.4 QString factory::generateLearning (QStringList mainLetter, QStringList allLetters)

This function generate the practice exercice from the given letters. The result is devided into three parts:

- · The first part is the letters that the user must learn, and only these
- The second part contains all the letters the user learned before so that he can train on all the letters
- The thirs parts contains the words that can be created with the letters the user learned before

NOTE: if no words can be made with the available letters, it will be replaced by a set of random letters

Parameters

mainLetter	the letter that the user is going to learn
allLetters	all the available letters for the exercice

Returns

a random-generated list of words

6.1.1.5 QString factory::generatePractice (QStringList letters, bool onlyRealWords = true)

Generates random words from the given list of letters The string generated is a single big text of words If onlyreal-words is true, the text will contains only real words so the user can train on existing words otherwise, it will also contains some random-generated words The size of the produced string is made to be contained in only ONE page of an exercice.

TODO: add a parameter to choose the size of the text? (Azarias)

Parameters

letters	the available letters
onlyRealWords	if it must generates only words existing in a language, or if it can generate random words

Returns

the generated text

6.1.1.6 QString factory::generateWords (QString authorizedLetters, QString language, QString mainLetters = " ")

Generate existing words with the available letters TODO: add a language parameter

Parameters

authorizedLetters	all the available chars to build a word
language	the language of the file to find
mainLetters	an optional QString. If existing, all the words must contain at least one letter of this string

Returns

a string with numberOfWord words separated by space.

6.1.1.7 QString factory::selectRandomElement (QStringList listString)

Select one random element in the availables elements of the list Helper to create exercices

Parameters

listString	a list of elements

Returns

a random-selected element in the list

6.1.1.8 QStringList factory::splitText (QString toSplit, int numberOfSplit)

Will split the text into differents parts to be able to display the given original string into differents line with aproximately the same length The split is made at the closes space found, to avoid beaking a word and split at a space instead

Parameters

text	the text to split
the	number of string to put in the list

Returns

the text splitted

6.2 file Namespace Reference

Functions

- QString getWordsPath (QString lang)
- QString getPadlockIcon (bool open)
- QString getStylesheet (QString stylesheetname)

6.2.1 Function Documentation

6.2.1.1 QString file::getPadlocklcon (bool open)

Helper to get the icons of the padlocks

Parameters

open	if the padlock is open or not !
------	---------------------------------

Returns

the relative path to the image of the corresponding padlock

6.2.1.2 QString file::getStylesheet (QString stylesheetname)

Return the path of the style file

Parameters

stylesheetname	the name of the file with the styl

Returns

the relative path to the .qss file containing the style

6.2.1.3 QString file::getWordsPath (QString lang)

Helper to find the most common word of a given langage

Parameters

langua	ge	the language of the file where the words are stored
--------	----	---

Returns

the RELATIVE path to the file containing the most common words of the given langage

6.3 html Namespace Reference

Functions

- QString addTagToChars (QString strtToTag, QString tag, QString attributes="")
- QString removeTag (QString &strToClean, QString tag="([[^]>]*)")
- QString addTags (QString &strToTag, QString tags, QString attributes="")
- int getAbsoluteCharPosition (QString string, int relativePos)

6.3.1 Function Documentation

6.3.1.1 QString html::addTags (QString & strToTag, QString tags, QString attributes = " ")

Surround the QChar at position given in parameter by all the tags given in parameter. The tags mus be separated by a comma. For example "b,u" will add the tags "b" then "u". It is possible to add some attributes into the FIRST surrounding tag The function will also change the string passed in parameter

Parameters

strToTag	the QString to be tagged
tags	the tags comma-separated to add to the character (e.g. "b,u")
attributes	some optional attributes to add to arround the string

Returns

the String with the char tagged

6.3.1.2 QString html::addTagToChars (QString strtToTag, QString tag, QString attributes = " ")

Add a tag around ALL the characters of a QString

Parameters

strToTag	the str where to add suround every char by a tag
tag	the tag to surround with

Returns

the QString with all the chars surrounded by the tag

6.3.1.3 int html::getAbsoluteCharPosition (QString string, int relativePos)

Helper to get the exact position of a char, without taking in consideration the HTML tags that makes the relative position falsy For example int the string "<p>>p</p>atrick" the position of the first char is 3 (p) and not 0 (<>)

Parameters

string	the string with some eventual html tags
relativePos	the position of the searched char

Returns

the absolute position of the researched char, return -1 if the pos was not found (relativePos too big)

6.3.1.4 QString html::removeTag (QString & strToClean, QString tag = " ($[^{\wedge}>]*)$ ")

Remove every tag in the QString. If no tag is specified, all will be removed, else, only the tag passed in parameter.

Parameters

strToClean	the QString to clean
tag	the tag to remove. If empty, all tags found will be removed

Returns

the cleaned QString

6.4 Ui Namespace Reference

Classes

· class MainWindow

Class Documentation

7.1 date_exercice_ Struct Reference

```
#include <tuser.h>
```

Public Attributes

- QDateTime dateResult
- TExercice * exercice

7.1.1 Member Data Documentation

7.1.1.1 QDateTime date_exercice_::dateResult

7.1.1.2 TExercice* date_exercice_::exercice

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

· src/Data/tuser.h

7.2 LearnPage Class Reference

```
#include <learnpage.h>
```

Inheritance diagram for LearnPage:



Public Slots

- void lauchExercice ()
- void endExercice (TResult *exerciceResult, QTime timeEx)
- void resetExercice ()

18 Class Documentation

Public Member Functions

- LearnPage (QWidget *parent=0)
- LearnPage (const LearnPage &orig)
- virtual ~LearnPage ()

7.2.1 Constructor & Destructor Documentation

```
7.2.1.1 LearnPage::LearnPage ( QWidget * parent = 0 )
```

- 7.2.1.2 LearnPage::LearnPage (const LearnPage & orig)
- 7.2.1.3 virtual LearnPage::~LearnPage() [inline], [virtual]
- 7.2.2 Member Function Documentation

```
7.2.2.1 void LearnPage::endExercice ( TResult * exerciceResult, QTime timeEx ) [slot]
```

Called when an exercice is finished

```
7.2.2.2 void LearnPage::lauchExercice ( ) [slot]
```

```
7.2.2.3 void LearnPage::resetExercice() [slot]
```

Called when an exercice is finished or when the exerice dialog is closed to reset all the necessary values

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

- src/QTypingTest/Learn/learnpage.h
- src/QTypingTest/Learn/learnpage.cpp

7.3 Ui::MainWindow Class Reference

```
#include <ui_homepage.h>
```

Inheritance diagram for Ui::MainWindow:



Additional Inherited Members

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

• src/ui/ui_homepage.h

7.4 PracticePage Class Reference

#include cticepage.h>

Inheritance diagram for PracticePage:



Public Slots

- void startAgainstTime ()
- void saveExerciceResult (TResult *res, QTime time)

Public Member Functions

- PracticePage (QWidget *parent=0)
- PracticePage (const PracticePage &orig)
- virtual ~PracticePage ()

7.4.1 Constructor & Destructor Documentation

- 7.4.1.1 PracticePage::PracticePage (QWidget * parent = 0)
- 7.4.1.2 PracticePage::PracticePage (const PracticePage & orig)
- 7.4.1.3 virtual PracticePage::~PracticePage() [inline], [virtual]

7.4.2 Member Function Documentation

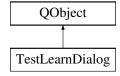
- 7.4.2.1 void PracticePage::saveExerciceResult (TResult * res, QTime time) [slot]
- 7.4.2.2 void PracticePage::startAgainstTime() [slot]

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

- src/QTypingTest/Practice/practicepage.h
- src/QTypingTest/Practice/practicepage.cpp

7.5 TestLearnDialog Class Reference

Inheritance diagram for TestLearnDialog:



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

tests/TestLearnDialog/testlearndialog.cpp

20 Class Documentation

7.6 TestPracticeRace Class Reference

Inheritance diagram for TestPracticeRace:

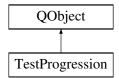


The documentation for this class was generated from the following file:

tests/TestPracticeRace/testpracticerace.cpp

7.7 TestProgression Class Reference

Inheritance diagram for TestProgression:



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

• tests/TestProgression/testprogression.cpp

7.8 TestTUser Class Reference

Inheritance diagram for TestTUser:



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

• tests/TestUser/testuser.cpp

7.9 TestUtils Class Reference

Inheritance diagram for TestUtils:



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

• tests/TestUtils/testutils.cpp

7.10 TExercice Class Reference

```
#include <texercice.h>
```

Public Types

• enum EXERCICE_TYPE { LEARNING, PRACTICING, TEXT_PRACTICING }

Public Member Functions

- TExercice (EXERCICE_TYPE exType, QStringList mainLetter, QStringList availableLetters)
- TExercice (EXERCICE_TYPE exType, bool allLetters)
- TExercice (const TExercice &orig)
- QString buildExercice () const
- virtual ∼TExercice ()

7.10.1 Detailed Description

A model class to define the type of exercice the user is about to do There are differents types of exercices and depending of these, differents parameters

7.10.2 Member Enumeration Documentation

7.10.2.1 enum TExercice::EXERCICE_TYPE

Enumerator

LEARNING

PRACTICING

TEXT_PRACTICING

7.10.3 Constructor & Destructor Documentation

- 7.10.3.1 TExercice::TExercice (EXERCICE TYPE exType, QStringList mainLetter, QStringList availableLetters)
- 7.10.3.2 TExercice::TExercice (EXERCICE_TYPE exType, bool allLetters)
- 7.10.3.3 TExercice::TExercice (const TExercice & orig)
- 7.10.3.4 virtual TExercice::~TExercice() [inline], [virtual]

22 Class Documentation

7.10.4 Member Function Documentation

7.10.4.1 QString TExercice::buildExercice () const

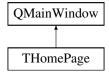
The documentation for this class was generated from the following files:

- · src/Data/texercice.h
- src/Data/texercice.cpp

7.11 ThomePage Class Reference

```
#include <thomepage.h>
```

Inheritance diagram for THomePage:



Public Member Functions

- THomePage (QWidget *parent=0)
- virtual ∼THomePage ()

Static Public Member Functions

static TUser * getUser ()

Static Public Attributes

static TUser * currentUser_

7.11.1 Constructor & Destructor Documentation

```
7.11.1.1 ThomePage::ThomePage ( QWidget * parent = 0 )
```

7.11.1.2 THomePage::~THomePage() [virtual]

7.11.2 Member Function Documentation

7.11.2.1 static TUser* THomePage::getUser() [inline], [static]

7.11.3 Member Data Documentation

7.11.3.1 TUser * **THomePage::currentUser**_ [static]

Initiate the static vars

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

- src/QTypingTest/thomepage.h
- src/QTypingTest/thomepage.cpp

7.12 TKeys Class Reference

```
#include <tkeys.h>
```

Public Member Functions

- TKeys ()
- virtual ∼TKeys ()

Static Public Member Functions

- static QList< int > validLetters ()
- static bool isValidLetter (int letterCode)

7.12.1 Constructor & Destructor Documentation

```
7.12.1.1 TKeys::TKeys( )
7.12.1.2 virtual TKeys::~TKeys( ) [inline], [virtual]
```

7.12.2 Member Function Documentation

```
\textbf{7.12.2.1} \quad bool \ TKeys:: is Valid Letter ( \ int \ \textit{letterCode} \ ) \quad [\, \texttt{static} \,]
```

```
7.12.2.2 QList < int > TKeys::validLetters( ) [static]
```

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

- src/Data/tkeys.h
- src/Data/tkeys.cpp

7.13 TLabel Class Reference

```
#include <tlabel.h>
```

Inheritance diagram for TLabel:



Signals

• void eraseOverflow ()

- TLabel (QString text, QWidget *parent=0)
- virtual ∼TLabel ()

- · bool nextChar (bool currendlsCorrect)
- bool previousChar ()
- · void setFirst ()

7.13.1 Constructor & Destructor Documentation

```
7.13.1.1 TLabel::TLabel ( QString text, QWidget * parent = 0 )
```

```
7.13.1.2 TLabel::~TLabel() [virtual]
```

7.13.2 Member Function Documentation

```
7.13.2.1 void TLabel::eraseOverflow( ) [signal]
```

A signale trigerred when the user tries to erase whenever he's at the start of the line

```
7.13.2.2 bool TLabel::nextChar ( bool currendlsCorrect )
```

Update the current char color depending on the answer given by the user the boolean is here to say wether the answer was right or not

Parameters

Returns

if there is another char after the current one

```
7.13.2.3 bool TLabel::previousChar ( )
```

Rollback the display and set the current label to the previous one in case of rollback from the user

Returns

if there are some chars before the current one

```
7.13.2.4 void TLabel::setFirst() [inline]
```

Function to update the display and show that the line is ready for use

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

- src/QTypingTest/Dialogs/Exercices/tlabel.h
- src/QTypingTest/Dialogs/Exercices/tlabel.cpp

7.14 TPage Class Reference

```
#include <tpage.h>
```

Inheritance diagram for TPage:



Public Slots

- void typingAnswer (QString answer)
- void eraseAnswer ()

Signals

- · void startedPage ()
- void endedPage (TResult *)

Public Member Functions

- TPage (QWidget *parent=0)
- TPage (QString model, QWidget *parent)
- TPage (QString model)
- void update (QKeyEvent *ev)
- · void updateAsFirst ()
- TResult * getResult ()
- QString text ()

7.14.1 Constructor & Destructor Documentation

```
7.14.1.1 TPage::TPage ( QWidget * parent = 0 ) [explicit]
```

- 7.14.1.2 TPage::TPage (QString model, QWidget * parent)
- 7.14.1.3 TPage::TPage (QString model)

7.14.2 Member Function Documentation

```
7.14.2.1 void TPage::endedPage(TResult * ) [signal]
```

Signale trigerred when there is no more text to copy on the page

```
7.14.2.2 void TPage::eraseAnswer() [slot]
```

7.14.2.3 TResult* TPage::getResult() [inline]

7.14.2.4 void TPage::startedPage() [signal]

A Signal trigerred when the user typed the first character of the line

```
7.14.2.5 QString TPage::text( ) [inline]
7.14.2.6 void TPage::typingAnswer( QString answer ) [slot]
7.14.2.7 void TPage::update( QKeyEvent * ev )
```

Called by the parent dialog/Window whenever a key is pressed to update the view and show the user where he is in the answer

Parameters

```
ev the key event that the user triggerred
```

```
7.14.2.8 void TPage::updateAsFirst() [inline]
```

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

- src/QTypingTest/Dialogs/Exercices/tpage.h
- src/QTypingTest/Dialogs/Exercices/tpage.cpp

7.15 TPractical Class Reference

```
#include <tpractical.h>
```

Public Types

```
    enum DIFFICULTY {
        BASIC, EASY, NORMAL, MEDIUM,
        HARD, CHUCK_NORRIS }
```

Public Member Functions

- TPractical ()
- TPractical (const TPractical &orig)
- virtual ∼TPractical ()

7.15.1 Member Enumeration Documentation

7.15.1.1 enum TPractical::DIFFICULTY

Enumerator

BASIC

EASY

NORMAL

MEDIUM

HARD

CHUCK_NORRIS

7.15.2 Constructor & Destructor Documentation

```
7.15.2.1 TPractical::TPractical( )
7.15.2.2 TPractical::TPractical( const TPractical & orig )
7.15.2.3 TPractical::~TPractical( ) [virtual]
```

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

- · src/Data/tpractical.h
- · src/Data/tpractical.cpp

7.16 TPractice Class Reference

```
#include <tpractice.h>
```

Public Types

enum KEYBOARD_LAYOUT { QWERTY, AZERTY, QWERTZ }

Public Member Functions

- QStringList getLetterList ()
- QStringList getAllLettersTo (int lastIndex=-1)
- QStringList getLettersAt (int index)
- virtual \sim TPractice ()

Static Public Member Functions

• static TPractice & getInstance ()

7.16.1 Detailed Description

This class is here to have a way to create the exercices on a certain order based on the keyboard layou

7.16.2 Member Enumeration Documentation

7.16.2.1 enum TPractice::KEYBOARD_LAYOUT

Enumerator

QWERTY

AZERTY

QWERTZ

7.16.3 Constructor & Destructor Documentation

```
7.16.3.1 virtual TPractice::~TPractice() [inline], [virtual]
```

7.16.4 Member Function Documentation

```
7.16.4.1 QStringList TPractice::getAllLettersTo ( int lastIndex = -1 )
```

7.16.4.2 static TPractice& TPractice::getInstance() [inline], [static]

7.16.4.3 QStringList TPractice::getLetterList() [inline]

7.16.4.4 QStringList TPractice::getLettersAt (int index)

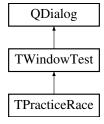
The documentation for this class was generated from the following files:

- src/Data/tpractice.h
- src/Data/tpractice.cpp

7.17 TPracticeRace Class Reference

#include <tpracticerace.h>

Inheritance diagram for TPracticeRace:



Public Slots

- void updateClock ()
- void createPage (TResult *prev=0)

Public Member Functions

- TPracticeRace (QWidget *parent=0)
- TPracticeRace (TExercice *generator, QWidget *parent=0)
- TPracticeRace (const TPracticeRace & orig)
- virtual ∼TPracticeRace ()
- TExercice exerciceGenerator () const

Additional Inherited Members

7.17.1 Constructor & Destructor Documentation

7.17.1.1 TPracticeRace::TPracticeRace (QWidget * parent = 0)

```
7.17.1.2 TPracticeRace::TPracticeRace ( TExercice * generator, QWidget * parent = 0 )
7.17.1.3 TPracticeRace::TPracticeRace ( const TPracticeRace & orig )
7.17.1.4 virtual TPracticeRace::~TPracticeRace() [inline], [virtual]
7.17.2 Member Function Documentation
7.17.2.1 void TPracticeRace::createPage ( TResult * prev = 0 ) [slot]
Generate a new page for the exercice
```

Parameters

prevPageRes the result of the page that was just finished

```
7.17.2.2 TExercice TPracticeRace::exerciceGenerator() const [inline]
```

7.17.2.3 void TPracticeRace::updateClock() [slot]

decrement the time on the counter

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

- src/QTypingTest/Dialogs/Exercices/tpracticerace.h
- src/QTypingTest/Dialogs/Exercices/tpracticerace.cpp

7.18 TProgression Class Reference

```
#include <tprogression.h>
```

Public Member Functions

- TProgression ()
- TProgression (const TProgression &orig)
- virtual ∼TProgression ()
- int getLastExericeIndex () const
- void setLastExerciceIndex (int exIndex)
- void avdvanceExIndex ()

7.18.1 Detailed Description

A class to define the progression of a user to know what's the last letters he learned the difficulty of the exercices

TODO: add progression for the practice exerccices

7.18.2 Constructor & Destructor Documentation

7.18.2.1 TProgression::TProgression()

7.18.2.2 TProgression::TProgression (const TProgression & orig)

```
7.18.2.3 TProgression::~TProgression() [virtual]
7.18.3 Member Function Documentation
7.18.3.1 void TProgression::avdvanceExIndex() [inline]
7.18.3.2 int TProgression::getLastExericeIndex() const [inline]
7.18.3.3 void TProgression::setLastExerciceIndex(int exIndex) [inline]
```

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

- src/Data/tprogression.h
- src/Data/tprogression.cpp

7.19 TResult Class Reference

```
#include <tresult.h>
```

Public Member Functions

- TResult ()
- TResult (const TResult &base)
- virtual ~TResult ()
- int getCorrectKeysStrokes () const
- int getWrongKeysStrokes () const
- int getCorrectWords () const
- int getWrongWords () const
- int getWPM ()
- void setCorrectKeysStrokes (int correctKeysStrokes)
- void setWrongKeysStrokes (int wrongKeysStrokes)
- void incrWrongKeyStrokes (int incrementation)
- void incrCorrectKeystrokes (int incrementation)
- QString getResume ()
- int updateWPM (float deltaTime)
- int getTotalWords () const
- int getTotalKeysStokres () const
- TResult * operator+ (const TResult &otherRes)
- TResult & operator+= (const TResult &otherRes)

7.19.1 Detailed Description

This class is here to calculate the results of an exercice this must be used to calculate the speed, and the accuracy

7.19.2 Constructor & Destructor Documentation

```
7.19.2.1 TResult::TResult( )
7.19.2.2 TResult::TResult( const TResult & base )
7.19.2.3 TResult::~TResult( ) [virtual]
```

7.19.3 Member Function Documentation

```
7.19.3.1 int TResult::getCorrectKeysStrokes ( ) const [inline]
7.19.3.2 int TResult::getCorrectWords ( ) const [inline]
7.19.3.3 QString TResult::getResume ( )
```

Return a QString with all the values of the object Helper to show results at the end of an exercice or when watching the history of exercices

Returns

the resume of all the data

```
7.19.3.4 int TResult::getTotalKeysStokres ( ) const
7.19.3.5 int TResult::getTotalWords ( ) const
7.19.3.6 int TResult::getWPM ( ) [inline]
7.19.3.7 int TResult::getWrongKeysStrokes ( ) const [inline]
7.19.3.8 int TResult::getWrongWords ( ) const [inline]
7.19.3.9 void TResult::incrCorrectKeystrokes ( int incrementation ) [inline]
7.19.3.10 void TResult::incrWrongKeyStrokes ( int incrementation ) [inline]
7.19.3.11 TResult * TResult::operator+ ( const TResult & otherRes )
7.19.3.12 TResult & TResult::operator+= ( const TResult & otherRes )
7.19.3.13 void TResult::setCorrectKeysStrokes ( int correctKeysStrokes ) [inline]
7.19.3.14 void TResult::setWrongKeysStrokes ( int wrongKeysStrokes ) [inline]
7.19.3.15 int TResult::updateWPM ( float deltaTime )
```

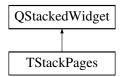
The documentation for this class was generated from the following files:

- · src/Data/tresult.h
- src/Data/tresult.cpp

7.20 TStackPages Class Reference

```
#include <tstackpages.h>
```

Inheritance diagram for TStackPages:



Public Slots

- void nextPage (TResult *previousScore)
- void beginExercice ()
- void keyPressed (QKeyEvent *ev)

Signals

- void pageEnded (TResult *pageResult)
- void textFinished ()
- void exerciceStarted ()

Public Member Functions

- TStackPages (QWidget *parent=0)
- TStackPages (const TStackPages &orig)
- TStackPages (const QString &text, int numberOfPages=1, QWidget *parent=0)
- QString getText () const
- int numberOfPages () const
- TPage * currentPage () const
- void addPage (QString pageText, bool isFirst=false)
- bool setFollowingPage ()
- virtual ∼TStackPages ()

7.20.1 Constructor & Destructor Documentation

```
7.20.1.1 TStackPages::TStackPages ( QWidget * parent = 0 )
```

7.20.1.2 TStackPages::TStackPages (const TStackPages & orig)

7.20.1.3 TStackPages::TStackPages (const QString & text, int numberOfPages = 1, QWidget * parent = 0)

7.20.1.4 virtual TStackPages::~TStackPages() [inline], [virtual]

7.20.2 Member Function Documentation

7.20.2.1 void TStackPages::addPage (QString pageText, bool isFirst = false)

7.20.2.2 void TStackPages::beginExercice() [slot]

Called whenever the user typed the first char on his keyboard This permits to launch a timer.

```
7.20.2.3 TPage* TStackPages::currentPage( ) const [inline]
```

7.20.2.4 void TStackPages::exerciceStarted() [signal]

Called when the user typed the first letter of the exercice wether the letter is right

```
7.20.2.5 QString TStackPages::getText() const [inline]
```

7.20.2.6 void TStackPages::keyPressed (QKeyEvent * ev) [slot]

Called whenever the user type on the keybaord and the game is not paused

Parameters

ev the key event triggered by the user

7.20.2.7 void TStackPages::nextPage (TResult * previousScore) [slot]

To call whenever a page is finished and the next one must begin!

Parameters

pre	eviousScore	the score of the line that was finished
-----	-------------	---

7.20.2.8 int TStackPages::numberOfPages () const [inline]

7.20.2.9 void TStackPages::pageEnded (TResult * pageResult) [signal]

Called whenever the current page is terminated

7.20.2.10 bool TStackPages::setFollowingPage ()

7.20.2.11 void TStackPages::textFinished() [signal]

Triggerred whever all the given text at the beginning was copied

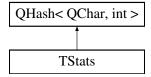
The documentation for this class was generated from the following files:

- src/QTypingTest/Dialogs/Exercices/tstackpages.h
- src/QTypingTest/Dialogs/Exercices/tstackpages.cpp

7.21 TStats Class Reference

#include <tstats.h>

Inheritance diagram for TStats:



- TStats ()
- TStats (const TStats &orig)
- virtual ∼TStats ()
- · void add (const TStats &otherStat)
- TStats * operator+ (const TStats &otherStat)
- TStats & operator+= (const TStats & otherStat)

7.21.1 Constructor & Destructor Documentation

```
7.21.1.1 TStats::TStats()
7.21.1.2 TStats::TStats(const TStats & orig)
7.21.1.3 TStats::~TStats() [virtual]
7.21.2 Member Function Documentation
7.21.2.1 void TStats::add(const TStats & otherStat)
7.21.2.2 TStats * TStats::operator+(const TStats & otherStat)
```

7.21.2.3 TStats & TStats::operator+= (const TStats & otherStat)

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

- · src/Data/tstats.h
- src/Data/tstats.cpp

7.22 TToolbar Class Reference

```
#include <ttoolbar.h>
```

Inheritance diagram for TToolbar:



Public Slots

- void pauseTimer ()
- double incrementTimer (int increment)

Signals

· void pauseClicked ()

- TToolbar (QWidget *parent=0)
- TToolbar (const TToolbar &orig)
- virtual ∼TToolbar ()
- void setProgression (QString text)
- void setLCDDisplayValue (double value)

7.23 TUser Class Reference 35

7.22.1 Constructor & Destructor Documentation

```
7.22.1.1 TToolbar::TToolbar ( QWidget * parent = 0 )
```

7.22.1.2 TToolbar::TToolbar (const TToolbar & orig)

7.22.1.3 virtual TToolbar::~TToolbar() [inline], [virtual]

7.22.2 Member Function Documentation

7.22.2.1 double TToolbar::incrementTimer (int increment) [slot]

Add the value increment to the current value of the ldc display

Parameters

increment the value of incrementation of the LDC display

```
7.22.2.2 void TToolbar::pauseClicked() [signal]
```

Triggered whenever the user click on the pause/play button

Parameters

inPause true if the state change to pause, false otherwise

```
7.22.2.3 void TToolbar::pauseTimer() [slot]
```

Called whenever the user click on the pause/play button

```
7.22.2.4 void TToolbar::setLCDDisplayValue ( double value ) [inline]
```

```
7.22.2.5 void TToolbar::setProgression ( QString text ) [inline]
```

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

- src/QTypingTest/Dialogs/Exercices/ttoolbar.h
- src/QTypingTest/Dialogs/Exercices/ttoolbar.cpp

7.23 TUser Class Reference

```
#include <tuser.h>
```

- TUser (QString pseudo="")
- virtual ∼TUser ()
- QString getPseudo () const
- void setPseudo (QString pseudo)
- QHash< date_exercice_ *, TResult * > getPracticeHistory () const

- TProgression * getProgression () const
- const TStats & getStatistics () const
- void oneMoreMistake (const QChar &mistaken)
- QDateTime addResult (TExercice *exTyp, TResult *exRes)

7.23.1 Constructor & Destructor Documentation

```
7.23.1.1 TUser::TUser ( QString pseudo = " " )
7.23.1.2 TUser::~TUser ( ) [virtual]
7.23.2 Member Function Documentation
```

7.23.2.1 QDateTime TUser::addResult (TExercice * exTyp, TResult * exRes)

Add result to the history of user practice. Save the date, and the type of the exercice as a key, then add the result as value

Parameters

ехТур	the exercice done by the user
exRes	the result of the exercice

Returns

the time when this result was saved

```
7.23.2.2 QHash < date_exercice_*, TResult* > TUser::getPracticeHistory() const [inline]
7.23.2.3 TProgression* TUser::getProgression() const [inline]
7.23.2.4 QString TUser::getPseudo() const [inline]
7.23.2.5 const TStats& TUser::getStatistics() const [inline]
7.23.2.6 void TUser::oneMoreMistake( const QChar & mistaken )
7.23.2.7 void TUser::setPseudo() QString pseudo() [inline]
```

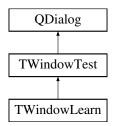
The documentation for this class was generated from the following files:

- src/Data/tuser.h
- src/Data/tuser.cpp

7.24 TWindowLearn Class Reference

#include <twindowlearn.h>

Inheritance diagram for TWindowLearn:



Public Member Functions

- TWindowLearn (QString model, QWidget *parent=0)
- TWindowLearn (QString model, int numberOfPages, QWidget *parent=0)
- virtual ∼TWindowLearn ()

Protected Member Functions

void updateClock ()

Additional Inherited Members

7.24.1 Constructor & Destructor Documentation

```
7.24.1.1 TWindowLearn::TWindowLearn ( QString model, QWidget * parent = 0 )
```

7.24.1.2 TWindowLearn::TWindowLearn (QString model, int numberOfPages, QWidget * parent = 0)

7.24.1.3 virtual TWindowLearn::~TWindowLearn() [inline], [virtual]

7.24.2 Member Function Documentation

```
7.24.2.1 void TWindowLearn::updateClock( ) [inline],[protected],[virtual]
```

Called to update the clock of the toolbar

Implements TWindowTest.

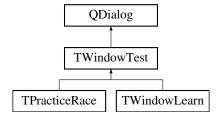
The documentation for this class was generated from the following files:

- src/QTypingTest/Dialogs/Exercices/twindowlearn.h
- src/QTypingTest/Dialogs/Exercices/twindowlearn.cpp

7.25 TWindowTest Class Reference

#include <twindowtest.h>

Inheritance diagram for TWindowTest:



Public Slots

- void saveResult (TResult *previousScore)
- void beginExercice ()
- · void exerciceFinished (bool forced=false)
- void pauseContinueExercice ()
- virtual void updateClock ()=0
- void updateToolbarProgression ()

Signals

- void endOfExercice (TResult *exeRes, QTime timeRealised)
- void closed ()

Public Member Functions

- TWindowTest (QWidget *parent=0)
- TWindowTest (QString text, QWidget *parent=0)
- TWindowTest (QString text, int numberOfPages, QWidget *parent=0)
- TToolbar toolBar () const
- TStackPages stackPages () const
- virtual ∼TWindowTest ()

Protected Member Functions

- void keyPressEvent (QKeyEvent *ev)
- void moveEvent (QMoveEvent *ev)
- void closeEvent (QCloseEvent *ev)
- void setupWidget ()
- void setupTimer ()
- QString getPageProgression ()
- TResult * exerciceResult ()
- void setupShortcuts ()
- void setTimers (int timeLimit)

Protected Attributes

- TToolbar topToolbar_
- TStackPages pages_
- QList< TResult * > results_

7.25.1 Constructor & Destructor Documentation

```
7.25.1.1 TWindowTest::TWindowTest ( QWidget * parent = 0 ) [inline]
```

7.25.1.2 TWindowTest::TWindowTest (QString text, QWidget * parent = 0) [inline]

7.25.1.3 TWindowTest::TWindowTest (QString text, int numberOfPages, QWidget * parent = 0) [inline]

7.25.1.4 TWindowTest::~TWindowTest() [virtual]

7.25.2 Member Function Documentation

```
7.25.2.1 void TWindowTest::beginExercice ( ) [slot]
```

7.25.2.2 void TWindowTest::closed() [signal]

Called whenever the exercice is forced to finish and no result/score is expected from the user

7.25.2.3 void TWindowTest::closeEvent (QCloseEvent * ev) [protected]

Create a signal when the dialog close to warn the parent and reset the exercice

Parameters

7.25.2.4 void TWindowTest::endOfExercice (TResult * exeRes, QTime timeRealised) [signal]

Triggerred when the exercice is 'officialy' finished Either thanks to a debug shortcut or the text to copy is finished

Parameters

exeRes	the result of the exercice
timeRealised	the time realised to complete the exercice

7.25.2.5 void TWindowTest::exerciceFinished (bool forced = false) [slot]

Called whenever wa have the exerice is finished

Parameters

a boolean to know if the user really ended the exercice or if he exited

7.25.2.6 TResult * TWindowTest::exerciceResult() [protected]

Because each resulst is stored in a list, at the end of the rush the function needs to return a single result. This function sum up all the results and return the total sum.

Returns

the sum of all the resulst of each lines

```
7.25.2.7 QString TWindowTest::getPageProgression() [inline], [protected]
```

Return the progression as a fraction For example, if the user is at the first page and the exercice is composed of two pages, it will return "1/2"

Returns

the page proression

```
7.25.2.8 void TWindowTest::keyPressEvent ( QKeyEvent * ev ) [protected]
```

Instead of having to focus on each of the lines this function handle the keypress event for the whole dialog

Parameters

```
ev the keyevent event
```

```
7.25.2.9 void TWindowTest::moveEvent ( QMoveEvent * ev ) [protected]
```

Dialog keeps moving when changin the text of the label ...

Parameters

```
the move event
```

Please dialog, stop moving when the text is changing!

```
7.25.2.10 void TWindowTest::pauseContinueExercice( ) [slot]
```

Called whenever the user click on the pause/continue button depending on the state, the button will react differently if the exercice is paused, it will resume it if the exercice is not paused, it will pause it

```
7.25.2.11 void TWindowTest::saveResult ( TResult * previousScore ) [slot]
```

To call whenever a line is finished and the next one must begin!

Parameters

previousScore	the score of the line that was finished
---------------	---

```
7.25.2.12 void TWindowTest::setTimers (int timeLimit ) [protected]
```

Set the timers of the exercice and the values to update/calculate the time realised by the user

```
7.25.2.13 void TWindowTest::setupShortcuts ( ) [protected]
```

Initiate all the shorcuts of the dialogs There are two type of shortucts

• The 'hack' ones, that must be remove for the production

· The normal ones, to help the user being more efficient

```
7.25.2.14 void TWindowTest::setupTimer( ) [protected]
Setup the timer to update the chronometer
```

7.25.2.15 void TWindowTest::setupWidget() [protected]

Init function called as soon as the dialog is created setup the options of the dialog and create the lines depending

on the given model

```
7.25.2.16 TStackPages TWindowTest::stackPages ( ) const [inline]
7.25.2.17 TToolbar TWindowTest::toolBar ( ) const [inline]
7.25.2.18 virtual void TWindowTest::updateClock ( ) [pure virtual], [slot]
Called to update the clock of the toolbar
Implemented in TWindowLearn.
```

- **7.25.2.19 void TWindowTest::updateToolbarProgression()** [inline], [slot]
- 7.25.3 Member Data Documentation
- **7.25.3.1 TStackPages TWindowTest::pages**_ [protected]
- **7.25.3.2 QList**<**TResult***> **TWindowTest::results**_ [protected]
- **7.25.3.3 TToolbar TWindowTest::topToolbar_** [protected]

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

- src/QTypingTest/Dialogs/twindowtest.h
- src/QTypingTest/Dialogs/twindowtest.cpp

7.26 Ui_MainWindow Class Reference

```
#include <ui_homepage.h>
Inheritance diagram for Ui_MainWindow:
```

Ui_MainWindow
Ui::MainWindow

- void setupUi (QMainWindow *MainWindow)
- void retranslateUi (QMainWindow *MainWindow)

Public Attributes

- QAction * actionChange user
- QAction * actionOnline_competitoin
- QAction * actionOthers
- QAction * actionText practice
- QAction * actionMap_keyboard
- QAction * actionLanguage
- QAction * actionPreferences
- QAction * actionChange user 2
- QAction * actionHomepage
- QWidget * centralwidget
- QWidget * verticalLayoutWidget
- QVBoxLayout * verticalLayout
- QHBoxLayout * horizontalLayout_2
- QPushButton * button_home
- QPushButton * button learn
- QPushButton * button practice
- QPushButton * button_stats
- QPushButton * button_games
- QGridLayout * gridLayout_2
- QStackedWidget * stack main
- QWidget * page learn
- QWidget * page_home
- QWidget * page_practice
- QWidget * page_stats
- QLabel * label_3
- QWidget * page_games
- QLabel * label 4
- QMenuBar * menubar
- QMenu * menuUser
- QMenu * menuOptions
- QMenu * menuAbout
- QStatusBar * statusbar

7.26.1 Member Function Documentation

- **7.26.1.1** void Ui_MainWindow::retranslateUi (QMainWindow * MainWindow) [inline]
- **7.26.1.2 void Ui_MainWindow::setupUi (QMainWindow *** *MainWindow* **)** [inline]
- 7.26.2 Member Data Documentation
- 7.26.2.1 QAction* Ui_MainWindow::actionChange_user
- 7.26.2.2 QAction* Ui_MainWindow::actionChange_user_2
- 7.26.2.3 QAction* Ui_MainWindow::actionHomepage
- 7.26.2.4 QAction* Ui_MainWindow::actionLanguage
- 7.26.2.5 QAction* Ui_MainWindow::actionMap_keyboard
- 7.26.2.6 QAction* Ui_MainWindow::actionOnline_competitoin

7.26.2.7 QAction* Ui_MainWindow::actionOthers 7.26.2.8 QAction* Ui_MainWindow::actionPreferences 7.26.2.9 QAction* Ui_MainWindow::actionText_practice 7.26.2.10 QPushButton* Ui_MainWindow::button_games 7.26.2.11 QPushButton* Ui_MainWindow::button_home 7.26.2.12 QPushButton* Ui_MainWindow::button_learn 7.26.2.13 QPushButton* Ui_MainWindow::button_practice 7.26.2.14 QPushButton* Ui_MainWindow::button_stats 7.26.2.15 QWidget* Ui_MainWindow::centralwidget 7.26.2.16 QGridLayout* Ui_MainWindow::gridLayout_2 7.26.2.17 QHBoxLayout* Ui_MainWindow::horizontalLayout_2 7.26.2.18 QLabel* Ui_MainWindow::label_3 7.26.2.19 QLabel* Ui_MainWindow::label_4 7.26.2.20 QMenu* Ui_MainWindow::menuAbout 7.26.2.21 QMenuBar* Ui_MainWindow::menubar 7.26.2.22 QMenu* Ui_MainWindow::menuOptions 7.26.2.23 QMenu* Ui_MainWindow::menuUser QWidget* Ui_MainWindow::page_games 7.26.2.24 7.26.2.25 QWidget* Ui_MainWindow::page_home 7.26.2.26 QWidget* Ui_MainWindow::page_learn 7.26.2.27 QWidget* Ui_MainWindow::page_practice 7.26.2.28 QWidget* Ui_MainWindow::page_stats 7.26.2.29 QStackedWidget* Ui_MainWindow::stack_main 7.26.2.30 QStatusBar* Ui_MainWindow::statusbar 7.26.2.31 QVBoxLayout* Ui_MainWindow::verticalLayout 7.26.2.32 QWidget* Ui_MainWindow::verticalLayoutWidget

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

• src/ui/ui_homepage.h

Chapter 8

File Documentation

- 8.1 doxygen.txt File Reference
- 8.2 etc/words/en.txt File Reference
- 8.3 etc/words/fr.txt File Reference
- 8.4 README.md File Reference
- 8.5 src/Data/texercice.cpp File Reference

```
#include "texercice.h"
```

8.6 src/Data/texercice.h File Reference

```
#include <QStringList>
#include <QDebug>
#include "tresult.h"
#include "Util/factory.h"
```

Classes

• class TExercice

8.7 src/Data/tkeys.cpp File Reference

```
#include "tkeys.h"
```

46 File Documentation

8.8 src/Data/tkeys.h File Reference

```
#include <qnamespace.h>
#include <QList>
```

Classes

class TKeys

8.9 src/Data/tpractical.cpp File Reference

```
#include "tpractical.h"
```

8.10 src/Data/tpractical.h File Reference

Classes

· class TPractical

8.11 src/Data/tpractice.cpp File Reference

```
#include "tpractice.h"
```

8.12 src/Data/tpractice.h File Reference

```
#include <QStringList>
#include <QDebug>
```

Classes

class TPractice

8.13 src/Data/tprogression.cpp File Reference

```
#include "tprogression.h"
```

Functions

- QDataStream & operator<< (QDataStream &out, const TProgression &prog)
- QDataStream & operator>> (QDataStream &in, TProgression &prog)
- bool operator== (const TProgression &prog1, const TProgression &prog2)

8.13.1 Function Documentation

```
8.13.1.1 QDataStream& operator << ( QDataStream & out, const TProgression & prog )
```

- 8.13.1.2 bool operator== (const TProgression & prog1, const TProgression & prog2)
- 8.13.1.3 QDataStream& operator>> (QDataStream & in, TProgression & prog)

8.14 src/Data/tprogression.h File Reference

```
#include <ODataStream>
```

Classes

· class TProgression

Functions

- QDataStream & operator<< (QDataStream &out, const TProgression &prog)
- QDataStream & operator>> (QDataStream &in, TProgression &prog)
- bool operator== (const TProgression &prog1, const TProgression &prog2)

8.14.1 Function Documentation

```
8.14.1.1 QDataStream& operator << ( QDataStream & out, const TProgression & prog )
```

- 8.14.1.2 bool operator== (const TProgression & prog1, const TProgression & prog2)
- 8.14.1.3 QDataStream & operator >> (QDataStream & in, TProgression & prog)

8.15 src/Data/tresult.cpp File Reference

```
#include "tresult.h"
```

8.16 src/Data/tresult.h File Reference

```
#include <QString>
#include "Util/htmlhelper.h"
```

Classes

· class TResult

8.17 src/Data/tstats.cpp File Reference

```
#include "tstats.h"
```

48 File Documentation

8.18 src/Data/tstats.h File Reference

```
#include <QHash>
```

Classes

· class TStats

8.19 src/Data/tuser.cpp File Reference

```
#include "tuser.h"
```

Functions

- QDataStream & operator<< (QDataStream &out, const TUser &user)
- QDataStream & operator>> (QDataStream &in, TUser &user)

8.19.1 Function Documentation

```
8.19.1.1 QDataStream& operator << ( QDataStream & out, const TUser & user )
```

8.19.1.2 QDataStream& operator>> (QDataStream & in, TUser & user)

8.20 src/Data/tuser.h File Reference

```
#include <QString>
#include <QDateTime>
#include <QDebug>
#include <QHash>
#include "tprogression.h"
#include "texercice.h"
#include "tpractice.h"
#include "tresult.h"
#include "tstats.h"
```

Classes

- struct date_exercice_
- class TUser

Functions

- QDataStream & operator<< (QDataStream &out, const TUser &user)
- QDataStream & operator>> (QDataStream &in, TUser &user)
- bool operator== (const TUser &user1, const TUser &user2)

8.20.1 Function Documentation

```
8.20.1.1 QDataStream& operator<< ( QDataStream & out, const TUser & user )
8.20.1.2 bool operator== ( const TUser & user1, const TUser & user2 ) [inline]</pre>
```

8.20.1.3 QDataStream & operator >> (QDataStream & in, TUser & user)

8.21 src/main.cpp File Reference

```
#include <QApplication>
#include <QDebug>
#include <QDir>
#include <time.h>
#include <QFile>
#include "QTypingTest/thomepage.h"
```

Functions

• int main (int argc, char *argv[])

8.21.1 Function Documentation

```
8.21.1.1 int main ( int argc, char * argv[] )
```

8.22 src/QTypingTest/Dialogs/Exercices/tlabel.cpp File Reference

```
#include "tlabel.h"
```

8.23 src/QTypingTest/Dialogs/Exercices/tlabel.h File Reference

```
#include <QWidget>
#include <QLabel>
#include <QDebug>
#include <QFont>
#include "Util/htmlhelper.h"
```

Classes

class TLabel

8.24 src/QTypingTest/Dialogs/Exercices/tpage.cpp File Reference

```
#include "tpage.h"
```

50 File Documentation

8.25 src/QTypingTest/Dialogs/Exercices/tpage.h File Reference

```
#include <QWidget>
#include <QLineEdit>
#include <QVBoxLayout>
#include <QKeyEvent>
#include <QApplication>
#include <QValidator>
#include <QList>
#include "Data/tresult.h"
#include "Data/tkeys.h"
#include "Util/factory.h"
#include "tlabel.h"
```

Classes

class TPage

8.26 src/QTypingTest/Dialogs/Exercices/tpracticerace.cpp File Reference

```
#include "tpracticerace.h"
```

8.27 src/QTypingTest/Dialogs/Exercices/tpracticerace.h File Reference

```
#include <QWidget>
#include <QDebug>
#include "QTypingTest/Dialogs/twindowtest.h"
#include "Data/texercice.h"
#include "Data/tresult.h"
```

Classes

class TPracticeRace

8.28 src/QTypingTest/Dialogs/Exercices/tstackpages.cpp File Reference

```
#include <qt5/QtCore/qlogging.h>
#include <qt5/QtCore/qstringlist.h>
#include "tstackpages.h"
```

8.29 src/QTypingTest/Dialogs/Exercices/tstackpages.h File Reference

```
#include <QWidget>
#include <QStackedWidget>
#include <QStringList>
#include <QList>
#include <QKeyEvent>
#include <QDebug>
#include "Data/tresult.h"
#include "QTypingTest/Dialogs/Exercices/tpage.h"
```

Classes

class TStackPages

8.30 src/QTypingTest/Dialogs/Exercices/ttoolbar.cpp File Reference

```
#include <qt5/QtCore/qnamespace.h>
#include <qt5/QtCore/qlogging.h>
#include "ttoolbar.h"
```

8.31 src/QTypingTest/Dialogs/Exercices/ttoolbar.h File Reference

```
#include <QWidget>
#include <QCheckBox>
#include <QLCDNumber>
#include <QLabel>
#include <QTimer>
#include <QSpacerItem>
#include <QHBoxLayout>
#include <qnamespace.h>
#include <QDebug>
```

Classes

· class TToolbar

8.32 src/QTypingTest/Dialogs/Exercices/twindowlearn.cpp File Reference

```
#include "twindowlearn.h"
```

8.33 src/QTypingTest/Dialogs/Exercices/twindowlearn.h File Reference

```
#include <QWidget>
#include "QTypingTest/Dialogs/twindowtest.h"
```

52 File Documentation

Classes

· class TWindowLearn

8.34 src/QTypingTest/Dialogs/twindowtest.cpp File Reference

```
#include <qt5/QtCore/qlogging.h>
#include "twindowtest.h"
```

8.35 src/QTypingTest/Dialogs/twindowtest.h File Reference

```
#include <QDialog>
#include <QWidget>
#include <QTime>
#include <QShortcut>
#include <QKeySequence>
#include <QVBoxLayout>
#include <QVBoxLayout>
#include <QDebug>
#include "Exercices/tstackpages.h"
#include "Exercices/ttoolbar.h"
#include "Data/tresult.h"
#include "Data/texercice.h"
#include "Util/factory.h"
```

Classes

class TWindowTest

8.36 src/QTypingTest/Learn/learnpage.cpp File Reference

```
#include "learnpage.h"
```

8.37 src/QTypingTest/Learn/learnpage.h File Reference

```
#include <QWidget>
#include <QPushButton>
#include <QMessageBox>
#include <QCFidLayout>
#include <QDebug>
#include <QVector>
#include <QScrollArea>
#include "Data/tpractice.h"
#include "Data/texercice.h"
#include "Util/filehelper.h"
#include "Util/htmlhelper.h"
#include "QTypingTest/Dialogs/Exercices/twindowlearn.h"
#include "QTypingTest/thomepage.h"
```

Classes

class LearnPage

Macros

#define MAX_COL 6

8.37.1 Macro Definition Documentation

8.37.1.1 #define MAX_COL 6

8.38 src/QTypingTest/Practice/practicepage.cpp File Reference

```
#include "practicepage.h"
```

8.39 src/QTypingTest/Practice/practicepage.h File Reference

```
#include <QWidget>
#include <QPushButton>
#include <QGridLayout>
#include <QMessageBox>
#include "QTypingTest/Dialogs/Exercices/tpracticerace.h"
```

Classes

class PracticePage

54 File Documentation

8.40 src/QTypingTest/thomepage.cpp File Reference

```
#include "thomepage.h"
```

8.41 src/QTypingTest/thomepage.h File Reference

```
#include <QWidget>
#include <QMainWindow>
#include <QVector>
#include <QPushButton>
#include <QDebug>
#include <QHBoxLayout>
#include "Learn/learnpage.h"
#include "Practice/practicepage.h"
#include "Data/tpractice.h"
#include "ui/ui_homepage.h"
#include "Data/tuser.h"
```

Classes

class THomePage

8.42 src/ui/ui_homepage.h File Reference

```
#include <OtCore/OVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QGridLayout>
#include <QtWidgets/QHBoxLayout>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QMainWindow>
#include <QtWidgets/QMenu>
#include <QtWidgets/QMenuBar>
#include <QtWidgets/QPushButton>
#include <QtWidgets/QStackedWidget>
#include <QtWidgets/QStatusBar>
#include <QtWidgets/QVBoxLayout>
#include <QtWidgets/QWidget>
```

Classes

- · class Ui MainWindow
- · class Ui::MainWindow

Namespaces

• Ui

8.43 src/Util/factory.cpp File Reference

```
#include <qt5/QtCore/qstringlist.h>
#include <qt5/QtCore/qlogging.h>
#include "factory.h"
```

Functions

- int randomNextSpace ()
- bool wordsContains (QStringList words, QString contains)
- QStringList readFile (QString fileName)
- bool isValidWord (QString word, QString availableLetters)

Variables

• const int numberOfWords = 40

8.43.1 Function Documentation

```
8.43.1.1 bool is Valid Word ( QString word, QString available Letters )
```

8.43.1.2 int randomNextSpace ()

A little helper to generate random position of space in text

Returns

A random number between 2 and 9 (the next position of the space)

```
8.43.1.3 QStringList readFile ( QString fileName )
```

8.43.1.4 bool wordsContains (QStringList words, QString contains)

Little helper to check if at least each chars of the contains QString is contained in one of the words. For example, with the words ("fly","my") and the string "ty", the function will return false since "t" is contained in none of the words "fly" and "my" If we had ("fly","my","try") the function would return true since t is in "try" and "y" is in at least of of the three words

Parameters

words	the found words
contains	the chars that must be in the words

Returns

if ALL the chars in the string contains are in the words

8.43.2 Variable Documentation

8.43.2.1 const int numberOfWords = 40

56 File Documentation

8.44 src/Util/factory.h File Reference

```
#include <QStringList>
#include <QDebug>
#include <QFile>
#include <QTextStream>
#include <algorithm>
#include "filehelper.h"
```

Namespaces

· factory

Functions

- QString factory::generateLearning (QStringList mainLetter, QStringList allLetters)
- QString factory::generatePractice (QStringList letters, bool onlyRealWords=true)
- QString factory::generateFromLetters (QStringList letterList, int length=50)
- QString factory::generateWords (QString authorizedLetters, QString language, QString mainLetters="")
- QStringList factory::findExistingWords (QString authorizedLetters, QString filename, QString must
 — Contain="")
- QString factory::selectRandomElement (QStringList listString)
- int factory::findClosestSpace (const QString &search, int indexStart)
- · QStringList factory::splitText (QString toSplit, int numberOfSplit)

8.45 src/Util/filehelper.cpp File Reference

```
#include "filehelper.h"
```

Variables

```
    const QString WORDS PATH = "words"
```

- const QString WORDS EXT = ".txt"
- const QString ETC_PATH = "etc"

8.45.1 Variable Documentation

```
8.45.1.1 const QString ETC_PATH = "etc"

8.45.1.2 const QString WORDS_EXT = ".txt"

8.45.1.3 const QString WORDS_PATH = "words"
```

8.46 src/Util/filehelper.h File Reference

```
#include <QString>
```

Namespaces

• file

Functions

- QString file::getWordsPath (QString lang)
- QString file::getPadlockIcon (bool open)
- QString file::getStylesheet (QString stylesheetname)

Variables

- const QString ETC_PATH
- const QString WORDS_PATH
- const QString WORDS_EXT

8.46.1 Variable Documentation

```
8.46.1.1 const QString ETC_PATH
```

8.46.1.2 const QString WORDS_EXT

8.46.1.3 const QString WORDS_PATH

8.47 src/Util/htmlhelper.cpp File Reference

```
#include "htmlhelper.h"
```

Functions

• QString surroundOfTags (QStringList tags, QString attributes)

8.47.1 Function Documentation

8.47.1.1 QString surroundOfTags (QStringList tags, QString attributes)

Little helper to create tags into tags and return a regex-ready string to add the text needed in the center

Parameters

tags the list of tag to add around a char

58 File Documentation

Returns

a regex-ready string to add the needed text in the center of the tags

8.48 src/Util/htmlhelper.h File Reference

```
#include <QStringList>
#include <QRegExp>
#include <QDebug>
```

Namespaces

html

Functions

- QString html::addTagToChars (QString strtToTag, QString tag, QString attributes="")
- QString html::removeTag (QString &strToClean, QString tag="([[^]>]*)")
- QString html::addTags (QString &strToTag, QString tags, QString attributes="")
- int html::getAbsoluteCharPosition (QString string, int relativePos)

8.49 tests/TestLearnDialog/testlearndialog.cpp File Reference

```
#include "QTypingTest/Dialogs/Exercices/twindowlearn.h"
#include <QtTest/QtTest>
#include <QApplication>
#include <time.h>
#include "testlearndialog.moc"
```

Classes

· class TestLearnDialog

8.50 tests/TestPracticeRace/testpracticerace.cpp File Reference

```
#include "QTypingTest/Dialogs/Exercices/tpracticerace.h"
#include "Data/tresult.h"
#include <QtTest/QtTest>
#include <QApplication>
#include <QTime>
#include <qt5/QtWidgets/QMessageBox>
#include <time.h>
#include "testpracticerace.moc"
```

Classes

• class TestPracticeRace

8.51 tests/TestProgression/testprogression.cpp File Reference

```
#include <QFile>
#include <QDataStream>
#include "../../src/Data/tprogression.h"
#include <QtTest/QtTest>
#include "testprogression.moc"
```

Classes

· class TestProgression

8.52 tests/TestUser/testuser.cpp File Reference

```
#include <QtTest/QtTest>
#include <QFile>
#include <QDebug>
#include <QVector>
#include <QDataStream>
#include "../../src/Data/texercice.h"
#include "../../src/Data/tresult.h"
#include "../../src/Data/tuser.h"
#include "testuser.moc"
```

Classes

class TestTUser

8.53 tests/TestUtils/testutils.cpp File Reference

```
#include <QtTest/QtTest>
#include <QDebug>
#include <QStringList>
#include <QDir>
#include <time.h>
#include "../../src/Util/htmlhelper.h"
#include "../../src/Util/factory.h"
#include "../../src/Util/filehelper.h"
#include "testutils.moc"
```

Classes

class TestUtils

Variables

const QStringList allLetters = QStringList("abcdefghijklmnopqrstuvwxyz")

60 File Documentation

- 8.53.1 Variable Documentation
- 8.53.1.1 const QStringList allLetters = QStringList("abcdefghijklmnopqrstuvwxyz")

Index

currentUser_	getStylesheet, 14
THomePage, 22	getWordsPath, 14
	filehelper.cpp
DIFFICULTY	ETC PATH, 56
TPractical, 26	WORDS_EXT, 56
date_exercice_, 17	WORDS PATH, 56
dateResult, 17	filehelper.h
exercice, 17	ETC PATH, 57
dateResult	WORDS EXT, 57
date_exercice_, 17	_ :
	WORDS_PATH, 57
doxygen.txt, 45	findClosestSpace
EASY	factory, 11
	findExistingWords
TPractical, 26	factory, 11
ETC_PATH	
filehelper.cpp, 56	generateFromLetters
filehelper.h, 57	factory, 12
EXERCICE_TYPE	generateLearning
TExercice, 21	factory, 12
endExercice	generatePractice
LearnPage, 18	factory, 12
endOfExercice	generateWords
TWindowTest, 39	factory, 13
endedPage	getAbsoluteCharPosition
TPage, 25	html, 15
eraseAnswer	getAllLettersTo
TPage, 25	TPractice, 28
eraseOverflow	getCorrectKeysStrokes
	TResult, 31
TLabel, 24	
etc/words/en.txt, 45	getCorrectWords
etc/words/fr.txt, 45	TResult, 31
exercice	getInstance
date_exercice_, 17	TPractice, 28
exerciceFinished	getLastExericeIndex
TWindowTest, 39	TProgression, 30
exerciceGenerator	getLetterList
TPracticeRace, 29	TPractice, 28
exerciceResult	getLettersAt
TWindowTest, 39	TPractice, 28
exerciceStarted	getPadlockIcon
TStackPages, 32	file, 14
-	getPageProgression
factory, 11	TWindowTest, 39
findClosestSpace, 11	getPracticeHistory
findExistingWords, 11	TUser, 36
generateFromLetters, 12	getProgression
generateLearning, 12	TUser, 36
generatePractice, 12	getPseudo
generateWords, 13	TUser, 36
selectRandomElement, 13	
	getResult
splitText, 13	TPage, 25
factory.cpp	getResume
isValidWord, 55	TResult, 31
numberOfWords, 55	getStatistics
randomNextSpace, 55	TUser, 36
readFile, 55	getStylesheet
wordsContains, 55	file, 14
file, 14	getText
getPadlockIcon, 14	TStackPages, 32

getTotalKeysStokres	LearnPage, 18
TResult, 31	resetExercice, 18
getTotalWords	learnpage.h
TResult, 31	MAX_COL, 53
getUser	
THomePage, 22	MAX_COL
getWPM	learnpage.h, 53
TResult, 31	MEDIUM
getWordsPath	TPractical, 26
file, 14	main
getWrongKeysStrokes	main.cpp, 49
TResult, 31	main.cpp
getWrongWords	main, 49
TResult, 31	menuAbout
gridLayout_2	Ui MainWindow, 43
Ui_MainWindow, 43	menuOptions
OI_Mantvindow, 40	Ui MainWindow, 43
HARD	menuUser
TPractical, 26	Ui MainWindow, 43
horizontalLayout_2	menubar
Ui_MainWindow, 43	Ui MainWindow, 43
html, 14	moveEvent
addTagToChars, 15	TWindowTest, 40
	i willdow lest, 40
addTags, 15	NORMAL
getAbsoluteCharPosition, 15	-
removeTag, 16	TPractical, 26 nextChar
htmlhelper.cpp	
surroundOfTags, 57	TLabel, 24
	nextPage
incrCorrectKeystrokes	TStackPages, 33
TResult, 31	numberOfPages
incrWrongKeyStrokes	TStackPages, 33
TResult, 31	numberOfWords
incrementTimer	factory.cpp, 55
TToolbar, 35	
isValidLetter	oneMoreMistake
TKeys, 23	TUser, 36
isValidWord	operator<<
factory.cpp, 55	tprogression.cpp, 47
	tprogression.h, 47
KEYBOARD_LAYOUT	tuser.cpp, 48
TPractice, 27	tuser.h, 49
keyPressEvent	operator>>
TWindowTest, 40	tprogression.cpp, 47
keyPressed	tprogression.h, 47
TStackPages, 32	tuser.cpp, 48
	tuser.h, 49
LEARNING	operator+
TExercice, 21	TResult, 31
label_3	TStats, 34
Ui_MainWindow, 43	operator+=
label_4	TResult, 31
	TStats, 34
lauchExercice	operator==
LearnPage, 18	tprogression.cpp, 47
LearnPage, 17	tprogression.h, 47
~LearnPage, 18	tuser.h, 49
endExercice, 18	tuoonin, T o
lauchExercice, 18	PRACTICING
.duonizaciono, 10	

TExercice, 21	TStackPages, 33
page_games	setLCDDisplayValue
Ui_MainWindow, 43	TToolbar, 35
page home	setLastExerciceIndex
Ui MainWindow, 43	TProgression, 30
page_learn	setProgression
Ui_MainWindow, 43	TToolbar, 35
page_practice	setPseudo
Ui_MainWindow, 43	TUser, 36
page_stats	setTimers
Ui_MainWindow, 43	
pageEnded	TWindowTest, 40
	setWrongKeysStrokes
TStackPages, 33	TResult, 31
pages_	setupShortcuts
TWindowTest, 41	TWindowTest, 40
pauseClicked	setupTimer
TToolbar, 35	TWindowTest, 41
pauseContinueExercice	setupUi
TWindowTest, 40	Ui_MainWindow, 42
pauseTimer	setupWidget
TToolbar, 35	TWindowTest, 41
PracticePage, 18	splitText
\sim PracticePage, 19	factory, 13
PracticePage, 19	src/Data/texercice.cpp, 45
saveExerciceResult, 19	src/Data/texercice.h, 45
startAgainstTime, 19	src/Data/tkeys.cpp, 45
previousChar	src/Data/tkeys.h, 46
TLabel, 24	src/Data/tpractical.cpp, 46
	src/Data/tpractical.h, 46
QWERTY	src/Data/tpractice.cpp, 46
TPractice, 27	• • • • • • • • • • • • • • • • • • • •
QWERTZ	src/Data/tpractice.h, 46
TPractice, 27	src/Data/tprogression.cpp, 46
	src/Data/tprogression.h, 47
README.md, 45	src/Data/tresult.cpp, 47
randomNextSpace	src/Data/tresult.h, 47
factory.cpp, 55	src/Data/tstats.cpp, 47
readFile	src/Data/tstats.h, 48
factory.cpp, 55	src/Data/tuser.cpp, 48
removeTag	src/Data/tuser.h, 48
html, 16	src/QTypingTest/Dialogs/Exercices/tlabel.cpp, 49
resetExercice	src/QTypingTest/Dialogs/Exercices/tlabel.h, 49
LearnPage, 18	<pre>src/QTypingTest/Dialogs/Exercices/tpage.cpp, 49</pre>
results_	src/QTypingTest/Dialogs/Exercices/tpage.h, 50
TWindowTest, 41	<pre>src/QTypingTest/Dialogs/Exercices/tpracticerace.cpp,</pre>
retranslateUi	50
Ui_MainWindow, 42	src/QTypingTest/Dialogs/Exercices/tpracticerace.h, 50
oi_Mainvindow, 12	src/QTypingTest/Dialogs/Exercices/tstackpages.cpp, 50
saveExerciceResult	src/QTypingTest/Dialogs/Exercices/tstackpages.h, 51
PracticePage, 19	src/QTypingTest/Dialogs/Exercices/ttoolbar.cpp, 51
saveResult	src/QTypingTest/Dialogs/Exercices/ttoolbar.h, 51
TWindowTest, 40	src/QTypingTest/Dialogs/Exercices/twindowlearn.cpp,
selectRandomElement	51
factory, 13	src/QTypingTest/Dialogs/Exercices/twindowlearn.h, 51
•	src/QTypingTest/Dialogs/twindowtest.cpp, 52
setCorrectKeysStrokes	
TResult, 31	src/QTypingTest/Dialogs/twindowtest.h, 52
setFirst	src/QTypingTest/Learn/learnpage.cpp, 52
TLabel, 24	src/QTypingTest/Learn/learnpage.h, 53
setFollowingPage	src/QTypingTest/Practice/practicepage.cpp, 53

src/QTypingTest/Practice/practicepage.h, 53	update, 26
src/QTypingTest/thomepage.cpp, 54	updateAsFirst, 26
src/QTypingTest/thomepage.h, 54	TPractical, 26
src/Util/factory.cpp, 55	\sim TPractical, 27
src/Util/factory.h, 56	BASIC, 26
src/Util/filehelper.cpp, 56	CHUCK_NORRIS, 26
src/Util/filehelper.h, 56	DIFFICULTY, 26
src/Util/htmlhelper.cpp, 57	EASY, 26
src/Util/htmlhelper.h, 58	HARD, 26
src/main.cpp, 49	MEDIUM, 26
src/ui/ui_homepage.h, 54	NORMAL, 26
stack_main	TPractical, 27
Ui_MainWindow, 43	TPractice, 27
stackPages	∼TPractice, 28
TWindowTest, 41	AZERTY, 27
startAgainstTime	getAllLettersTo, 28
PracticePage, 19	getInstance, 28
startedPage	getLetterList, 28
TPage, 25	getLettersAt, 28
statusbar	KEYBOARD_LAYOUT, 27
Ui_MainWindow, 43	QWERTY, 27
surroundOfTags htmlhelper.cpp, 57	QWERTZ, 27
пипинерет.срр, 57	TPracticeRace, 28
TEXT PRACTICING	\sim TPracticeRace, 29
TExercice, 21	createPage, 29
TExercice, 21	exerciceGenerator, 29
∼TExercice, 21	TPracticeRace, 28, 29
buildExercice, 22	updateClock, 29
EXERCICE_TYPE, 21	TProgression, 29
LEARNING, 21	\sim TProgression, 29
PRACTICING, 21	avdvanceExIndex, 30
TEXT_PRACTICING, 21	getLastExericeIndex, 30
TExercice, 21	setLastExerciceIndex, 30
THomePage, 22	TProgression, 29
\sim THomePage, 22	TResult, 30
currentUser_, 22	\sim TResult, 30
getUser, 22	getCorrectKeysStrokes, 31
THomePage, 22	getCorrectWords, 31
TKeys, 23	getResume, 31
\sim TKeys, 23	getTotalKeysStokres, 31
isValidLetter, 23	getTotalWords, 31
TKeys, 23	getWPM, 31
validLetters, 23	getWrongKeysStrokes, 31
TLabel, 23	getWrongWords, 31
\sim TLabel, 24	incrCorrectKeystrokes, 31
eraseOverflow, 24	incrWrongKeyStrokes, 31
nextChar, 24	operator+, 31
previousChar, 24	operator+=, 31
setFirst, 24	setCorrectKeysStrokes, 31
TLabel, 24	setWrongKeysStrokes, 31
TPage, 24	TResult, 30
endedPage, 25	updateWPM, 31
eraseAnswer, 25	TStackPages, 31
getResult, 25	∼TStackPages, 32
startedPage, 25	addPage, 32
TPage, 25	beginExercice, 32
text, 25	currentPage, 32
typingAnswer, 26	exerciceStarted, 32

getText, 32	topToolbar_, 41
keyPressed, 32	updateClock, 41
nextPage, 33	updateToolbarProgression, 41
numberOfPages, 33	TestLearnDialog, 19
pageEnded, 33	TestPracticeRace, 20
setFollowingPage, 33	TestProgression, 20
TStackPages, 32	TestTUser, 20
textFinished, 33	TestUtils, 20
TStats, 33	tests/TestLearnDialog/testlearndialog.cpp, 58
\sim TStats, 34	tests/TestPracticeRace/testpracticerace.cpp, 58
add, 34	tests/TestProgression/testprogression.cpp, 59
operator+, 34	tests/TestUser/testuser.cpp, 59
operator+=, 34	tests/TestUtils/testutils.cpp, 59
TStats, 34	testutils.cpp
TToolbar, 34	allLetters, 60
∼TToolbar, 35	text
incrementTimer, 35	TPage, 25
pauseClicked, 35	textFinished
pauseTimer, 35	TStackPages, 33
setLCDDisplayValue, 35	toolBar
setProgression, 35	TWindowTest, 41
TToolbar, 35	topToolbar_
TUser, 35	TWindowTest, 41
\sim TUser, 36	tprogression.cpp
addResult, 36	operator<<, 47
getPracticeHistory, 36	operator 47
getProgression, 36	operator==, 47
getPseudo, 36	tprogression.h
getStatistics, 36	operator<<, 47
oneMoreMistake, 36	operator>>, 47
setPseudo, 36	operator==, 47
TUser, 36	tuser.cpp
TWindowLearn, 36	operator<<, 48
\sim TWindowLearn, 37	operator>>, 48
TWindowLearn, 37	tuser.h
updateClock, 37	operator<<, 49
TWindowTest, 37	operator>>, 49 operator==, 49
\sim TWindowTest, 39	typingAnswer
beginExercice, 39	
closeEvent, 39	TPage, 26
closed, 39	Ui, 16
endOfExercice, 39	Ui::MainWindow, 18
exerciceFinished, 39	Ui MainWindow, 41
exerciceResult, 39	actionChange_user, 42
getPageProgression, 39	actionChange_user_2, 42
keyPressEvent, 40	actionHomepage, 42
moveEvent, 40	actionLanguage, 42
pages_, 41	actionMap_keyboard, 42
pauseContinueExercice, 40	actionOnline_competitoin, 42
results_, 41	actionOthers, 42
saveResult, 40	actionPreferences, 43
setTimers, 40	actionText_practice, 43
setupShortcuts, 40	button_games, 43
setupTimer, 41	button_home, 43
setupWidget, 41	button_learn, 43
stackPages, 41	button_practice, 43
TWindowTest, 39	button_stats, 43
toolBar, 41	centralwidget, 43
•	<i>•</i>

```
gridLayout_2, 43
    horizontalLayout_2, 43
    label_3, 43
    label_4, 43
    menuAbout, 43
    menuOptions, 43
    menuUser, 43
    menubar, 43
    page_games, 43
    page_home, 43
    page_learn, 43
    page_practice, 43
    page_stats, 43
    retranslateUi, 42
    setupUi, 42
    stack_main, 43
    statusbar, 43
    verticalLayout, 43
    verticalLayoutWidget, 43
update
    TPage, 26
updateAsFirst
    TPage, 26
updateClock
    TPracticeRace, 29
    TWindowLearn, 37
    TWindowTest, 41
updateToolbarProgression
    TWindowTest, 41
updateWPM
    TResult, 31
validLetters
    TKeys, 23
verticalLayout
    Ui_MainWindow, 43
verticalLayoutWidget
    Ui_MainWindow, 43
WORDS_EXT
    filehelper.cpp, 56
    filehelper.h, 57
WORDS_PATH
    filehelper.cpp, 56
    filehelper.h, 57
wordsContains
    factory.cpp, 55
```