

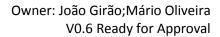


PS2Win

Software Requirement Specification

Keep Your Time

João Girão; Mário Oliveira 25-04-2013

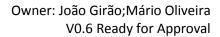


i



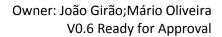
Content

1.	Introduction	. 1
1.1.	Purpose	. 1
1.2.	Vision of the Solution	. 1
1.3.	Major Features	. 1
1.4.	Assumptions and Dependencies	. 1
1.5.	References	. 1
2.	Use Cases Model	. 2
2.1.	Actors	. 3
2.2.	Use Cases	. 3
2.2.1.	UC-001-Create Task	. 3
2.2.2.	UC-002-Edit task	. 4
2.2.3.	UC-003-Delete task	. 5
2.2.4.	UC-004-Start time tracking	. 5
2.2.5.	UC-005-Stop Time	. 6
2.2.6.	UC-006-ChangeRunningTask	. 7
2.2.7.	UC-007-ChangeTask Status	. 7
2.2.8.	UC-008-Answer to Inactivity	. 8
2.2.9.	UC-011-Configure System	. 9
2.2.10.	UC-012-Configure Inactive Time	. 9
2.2.11.	UC-013-Configure Shortcuts	10
2.2.12.	UC-014-Visualize Task Details	11
2.2.13.	UC-015-Filter Inactive Tasks	11
2.2.14.	UC-016-Export Data	11
2.2.15.	UC-017 - Show/Hide tasks list	12
3.	Functional Requirements	13
3.1.	1CT-001:Task.create	13
3.2.	1CT-002:Task.create.validate	13
3.3.	1CT-003:Task.create.validate.notEqual	13
3.4.	1CT-004:Task.create.AutoComplete	13
3.5.	2ET-001: EditTask	13





3.6.	2ET-002: EditTask.save	. 14
3.7.	2ET-003: EditTask.save.true	. 14
3.8.	2ET-004:EditTask.save.false	. 14
3.9.	3DT-001: DeleteTask	. 14
3.10.	4STT-001: StartTime	. 14
3.11.	5ST-001: StopTime	. 14
3.12.	6CT-001: ChangeRunningTask	. 15
3.13.	6CT-002: ChangeRunningTask.CombinationFail	. 15
3.14.	6CT-003: ChangeRunningTask.Success	. 15
3.15.	7CT-001: ChangeTask Status	. 15
3.16.	8AI-001: Inactivity	. 15
3.17.	8AI-002: Inactivity.Notify	. 16
3.18.	8AI-003: Inactivity.Notify.Adds	. 16
3.19.	8AI-003: Inactivity.Notify.Ignores	. 16
3.20.	12CIT-001: ConfigureInactiveTime	. 16
3.21.	12CIT-002: ConfigureInativeTime.Validate	. 16
3.22.	12CIT-003: ConfigureInactiveTime.Validate.False	. 16
3.23.	12CIT-004: ConfigureInactiveTime.Validate.True	. 17
3.24.	13CS-001: ConfigureShortcuts	. 17
3.25.	13CS-002: ConfigureShortcuts.Validate	. 17
3.26.	13CS-003: ConfigureShortcuts.Validate.True	. 17
3.27.	13CS-004: ConfigureShortcuts.Validate.False	. 17
3.28.	14VTD-001: TaskDetails	. 17
3.29.	14VTD-002: TaskDetails.Calculate	. 18
3.30.	15FIT-001: FilterTask	. 18
3.31.	15FIT-002: FilterTask.ShowAll	. 18
3.32.	16ED-001: ExportData	. 18
3.33.	16ED-002: ExportData.Export	. 18
3.34.	17TL-001: TaskList	. 18
3.35.	17TL-002: TaskList.DefaultSort	. 19
3.36.	17TL-003: TaskList.DefaultSort.CurrentTask	. 19
3.37.	17TL-004: TaskList.Sort	. 19
3.38.	17TL-005: TaskList.TotalTime	. 19





3.39.	17TL-006: TaskList.Today	19
3.40.	17TL-007: TaskList.StopDate	19
3.41.	17TL-008: TaskList.Actions	20
4.	Interface Requirements	20
4.1.	UI-001: MainWindow	20
4.2.	UI-002: Buttons that are always active	20
4.3.	UI-003: Expand list button	20
4.4.	UI-004: TextBox filled with a new task name	20
4.5.	UI-005: TextBox filled with Existence task name	21
4.6.	UI-006: TextBox with running task	21
4.7.	UI-007: Clicking in view details button	21
4.8.	UI-008: Clicking in edit button	21
4.9.	UI-009: Clicking in configuration button	21
4.10.	UI-010: Visual distinction between active and inactive tasks	22
4.11.	UI-011: Modal Window	22
5.	Performance Requirements	22
5.1.	PR-001: Startup of the application	22
5.2.	PR-002: Transition time	22
Appen	dix A: Data Dictionary	23
Imag	ges	
Figure	1: Use Case Diagram	2
Tabl	es	
Table 1	1: List of Contributors	iv
	2: Version history	



Authors and Contributors			
Date	Name	Contacts	Contribution
25-04-2013	João Girão	a21170831@alunos.isec.pt	A 11
	Mário Oliveira	a21170292@alunos.isec.pt	Author
25-04-2013	Carla Machado	a21170460@alunos.isec.pt	Contributor

Table 1: List of Contributors

Revision Histor	у				
Date	Description	Author	Version	Approvers	State
25-04-2013	Creation Document: initial draft	João Girão & Mário Oliveira	0.1		Draft
25-04-2013	Adding the use cases and requirements exported from Enterprise Architect	Carla Machado	0.2		Draft
26-04-2013	Revision of text and English	Carla Machado	0.3		Draft
26-04-2013	Formatting Document and change state	João Girão	0.4		Ready for Revision
26-04-2013	Some changes due to input from Rui Ganhoto	Carla Machado	0.5		Ready for Revision
03/05/2013	Some changes based on previous inspection	João Girão & Mário Oliveira	0.6		Ready for Approval

Table 2: Version history



1. Introduction

1

2	1.1. Purpose
3 4	The purpose of this document is the presentation of the use cases and requirements of the application Keep Your Time.
5	All the functionalities will be identified with recourse to the definition of use cases and
6 7	requirements that intend to reflect the way the application should be used and how the system should perform.
8	1.2. Vision of the Solution
9	The application to be developed will be composed in the first release of one component:
10	Desktop: for task time management;
11	The application will allow the users to manage their time in a structured way allowing task
12	identification both of the ongoing one or in case of idle time detection decide whether to add
13	the time to the current task or ignore the time Furthermore the application will provide a
14	history of performed tasks.
15	The application will be developed using .NET platform and C#. The desktop component will
16	have the functional interface where the user can add tasks easily and view the tasks historical.
17	1.3. Major Features
18	FE-1: Adding, editing and deleting tasks;
19	FE-2: Inactivity alerts during task;
20	FE-3: Registering and timing individual tasks;
21	FE-4: Exporting the application data;
22	1.4. Assumptions and Dependencies
23	AS-1: The computer will have a Windows OS with at least the Vista version;
24	AS-2: The computer will have framework .Net 4.5;
25	
26	This application doesn't have any dependencies with external software;

1.5. References

• Mockups: "KeepYourTIme_Mockups.pdf";

27

28



29

30

31 32

2. Use Cases Model

In this section the identification and description of the actors related to the application and the different use cases will be presented. These actors and use cases can be seen in the use case diagram show in Figure 1.

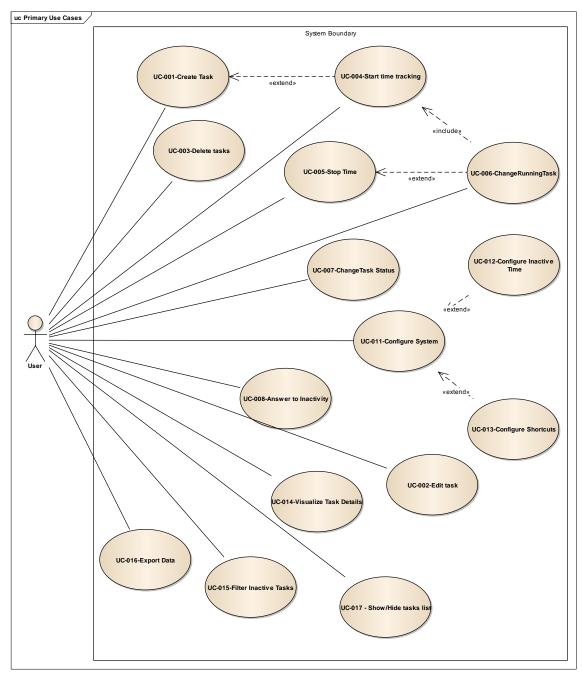
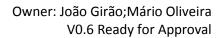


Figure 1: Use Case Diagram

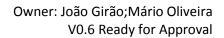
The use cases UC-009 and UC-010 don't exists in the diagram because they are in the deprecated state.

33 34





38	Z.1. Actors
39	<u>User</u> : The user with full access to the application and its features.
40	2.2. Use Cases
41	2.2.1.UC-001-Create Task
42	The user creates a new task. The user inserts the name for the task and selects the option
43	of creating and starting the task. The task is created in the database, added to the tasks list
44	and the timer starts.
45	[MKU001: Main Window; MKU001.1: Main Window (status)]
46	Basic Path
47	Creates and starts the task:
48	$^{ m 1}$ The user inserts the task name and selects the option to create the task. $^{ m 2}$ The user
49	inserts the task name and starts the task. ³ The system inserts the task in the database and
50	adds the task to the tasks list [Invokes: UC-004-Start time tracking].
51	<u>Exceptions</u>
52	(at ³)
53	An error occurs when inserting the data in the database. The application returns an error
54	message.

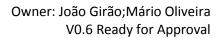




55 56 57	2.2.2.UC-002-Edit task The user selects a task to edit. The edition form is presented to the user that makes the alterations and saves the changes.
58	[MKU003: Edit Task]
59	Basic Path
60	Editing Task:
61 62 63	¹ The user click in the edit button to edit a task. ² The system presents the edition form to the user. ³ The user makes the changes and saves them. ⁴ The system updates the information in the database and the tasks list.
64	Alternate Paths
65	Editing tasks:
66 67 68 69	¹ The user click in the details button to view the task's information. ² The system presents the details form. ³ The user click in the edit button to edit the task. ⁴ The system presents the edition form to the user. ⁵ The user makes the changes and saves them. ⁶ The system updates the information in the database and the tasks list.
70	Cancel Edition:
71 72	(at ³) ⁴ The user cancels the edition. ⁵ The system closes the edition form.
73	Exceptions
74 75 76	(at 4) An error occurs when inserting the data in the database. The application returns an error message.
77	<u>Pre-condition</u>
78	Existence of tasks
79	

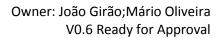


80 81 82	2.2.3. UC-003-Delete task The user selects one task and selects the remove button. The task is removed from the tasks list and all the information related to the task is removed from the database.
83	[MKU001: Main Window]
84	Basic Path
85	Delete task:
86 87 88	¹ The user click in the delete button to delete a task. ² The system presents a message to confirm the operation. ³ The user accepts the operation. ⁴ The system deletes the task from the database and updates the tasks list.
89	Alternate Path
90	Cancel deleting:
91	(at ³)
92	¹ The user doesn't accept the operation. ² The system cancels the operation.
93	Exceptions
94 95	(at 2) An error occurs when accessing the database. An error message is presented to the user.
96	Pre-condition
97	Existence of tasks
98	Open the tasks list
99 100 101	2.2.4. UC-004-Start time tracking The user chooses a task and starts the time tracking. The system starts counting the time and presents a timer to the user.
102	[MKU001: Main Window; MKU001.1: Main Window (status)]
103	Basic Path
104	Starting Time:
105	¹ The user selects an active task and starts the time. ² The system starts the timer.
106	<u>Pre-condition</u>
107	Existence of tasks



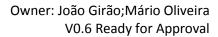


108	2.2.5.UC-005-Stop Time
109	The user stops the time. The system stops the time and updates the information of the
110	task.
111	[MKU001: Main Window; MKU001.1: Main Window (status)]
112	Basic Path
113	Stopping Time:
114	¹ The user stops the time. ² The system stops the timer and updates the task information.
115	<u>Exceptions</u>
116	(at ²)
117	³ An error occurs while accessing the database. ⁴ An error message must be presented to
118	the user.
119	<u>Pre-condition</u>
120	There must be a task running.



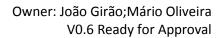


121 122	2.2.6. UC-006-ChangeRunningTask The user uses a shortcut to change the running task.
123	Basic Path
124	Existing running task:
125	¹ The system is tracking the time of a running task. ² The user uses a pre-defined shortcut
126	to start timing a task. ³ The system stops the time of the current running task and updates
127	the task information. The system selects the task assigned to the shortcut the user
128	pressed and starts the timer.
129	Alternate Paths
130	No running task:
131	(at ¹)
132	The user presses a pre-defined shortcut to start a task. ³ The system selects the task and
133	starts the timer.
134	<u>Exceptions</u>
135	(at ³)
136	An error occurs while accessing the database. An error message must be presented to the
137	user.
138	<u>Pre-condition</u>
139	There must be more than one active task
140	There must be a match between the active tasks and the used shortcut
141	2.2.7.UC-007-ChangeTask Status
142	The user selects a task from the list and selects the option to change the task status
143	between Active and Inactive
144	[MKU001: Main Window]
145	Basic Path
146	Activate Task:
147	¹ The user selects the task to change the status and selects Activate/Inactivate. ² The
148	system changes the status of the task and updates the database information.



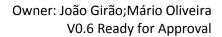


149	<u>Exceptions</u>
150	(at ²)
151	An error occurs when updating the information in the database. The application returns an
152	error message to the user.
153	<u>Pre-condition</u>
154	Existence of tasks
155	2.2.8.UC-008-Answer to Inactivity
156	The system must detect inactivity times according with the system configuration and
157	prompt the user for a response.
158	[MKU004: Configurations; MKU005: Alert Inactivity]
159	Basic Path
160	Adding time:
161	¹ The system detects an inactivity time. The system stops the timer and prompts the user
162	for an action. ² The user adds the time to the running task. ³ The system adds the time to
163	the running task. ⁴ The system presents the main window and updates de information in
164	the database.
165	Alternate Paths
166	Ignore time:
167	(at ¹)
168	² The user ignores the time. ³ The system ignores the time.
169	Exceptions
170	(at ³)
171	An error occurs when updating the information in the database. The application returns an
172	error message to the user.
173	<u>Pre-condition</u>
174	There must be a task running.
175	The user hasn't interaction with the system during the defined time.



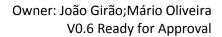


176	2.2.9. UC-011-Configure System		
177	The user changes the system configurations.		
178	[MKU004: Configurations]		
179	Basic Path		
180	Configure:		
181 182 183	¹ The user opens a configuration window. ² The system presents the configuration window. ³ The user changes the definitions and saves. ⁴ The system saves the changes and applies the changes to the system.		
184	Alternate Paths		
185	Cancel Edition:		
186	(at ³)		
187	⁴The user closes the window without saving.		
188	<u>Exceptions</u>		
189	(at ⁴)		
190	An error occurs while accessing the database. An error message must be presented to the		
191	user.		
192	2.2.10. UC-012-Configure Inactive Time		
193	The user accesses the configurations page and activates the configuration system and sets		
194	the inactivity time to a value between 1 and 60 minutes.		
195	[MKU004: Configurations]		
196	Basic Path		
197	Activate Inactivity:		
198	1 The user accesses the configuration page and activates the inactivity alert. 2 The system		
199	activates the configuration of inactivity time. ³ The user inserts a time between 1 and 60		
200	minutes. ⁴ The system updates the information in the database and puts the new		
201	configuration in effect.		



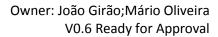


202	<u>Alternate Paths</u>
203	Deactivate inactivity time:
204 205 206 207	(at 1) 2 The user accesses the configuration page and deactivates the inactivity alert. 3 The system blocks the configuration of inactivity time. 4 Updates the database information and puts the new configurations in effect.
208	<u>Exceptions</u>
209 210 211	(at 4) An error occurs while accessing the database. An error message must be presented to the user.
212 213 214	2.2.11. UC-013-Configure Shortcuts The user accesses the configuration page and defines shortcuts for changing between five chosen tasks
215	[MKU004: Configurations]
216	Basic Path
217	Configure Shortcuts:
218 219 220	¹ The user accesses the configurations page and defines the shortcuts by defining the shortcuts and the corresponding task. ² The system updates the information in the database and applies the new definitions.
221	<u>Exceptions</u>
222	(at ²)
223	If the user duplicates a task or the shortcuts, the system presents an error message.
224 225 226	(at 2) An error occurs while accessing the database. An error message must be presented to the user.
227	<u>Pre-condition</u>
228	Existence of active tasks





229 230	2.2.12. UC-014-Visualize Task Details The user chooses a task to view the details.		
231	[MKU002: Task Details]		
232	Basic Path		
233 234	$^{\scriptsize 1}$ The user clicks in the details button to view the task details. $^{\scriptsize 2}$ The system presents the task details.		
235	Alternate Path		
236	¹ The user expands the tasks list. (at ¹)		
237	Exceptions		
238 239 240 241	(at ²) An error occurs while accessing the database. An error message must be presented to the user.		
242	Pre-condition		
243	Existence of tasks		
244 245	2.2.13. UC-015-Filter Inactive Tasks The user activates/deactivates a filter in order to see or hide the inactive tasks.		
246	[MKU001: Main Window]		
247	Basic Path		
248	Present tasks list:		
249 250	¹ The system presents a list of all the tasks to the user. ² The user selects the option to hide the inactive tasks. ³ The system filters the task list and only shows the active tasks.		
251 252 253	2.2.14. UC-016-Export Data The user selects the option corresponding to the settings. In the section settings then selects the functionality of all exporting data.		
254	[MKU004: Configurations]		
255	Basic Path		
256 257 258	¹ The user selects the settings functionality. ² The system redirects the user to the settings form where an option for exporting data is available. ³ The user selects the export option. ⁴ The user chooses the path to save the exported file. ⁵ The system exports all data.		





259	Exceptions		
260	(at ⁴)		
261	The system doesn't have writing permissions in the destination folder or an error occur		
262	when accessing the database. The system presents an error message to the user.		
263	<u>Pre-condition</u>		
264	Existence of tasks		
265	2.2.15. UC-017 - Show/Hide tasks list		
266	User presses a button to show or hide the tasks list.		
267	[MKU001: Main Window]		
268	Basic Path		
269	Show Tasks List:		
270	¹ The system presents a minimal view without the tasks list. ² The user presses a button to		
271	expand the window and view the task list. ³ The system expands the window and presents		
272	the complete task list.		
273	Alternate Paths		
274	Hide Tasks List:		
275	(at ¹)		
276	² The system presents a view with the tasks list. ³ The user presses a button to hide the tasks		
277	list. ⁴ The system minimizes the window and stops showing the tasks list.		



278

3. Functional Requirements

279 280		1CT-001:Task.create seives a task name from a text box. This text box allows auto complete.
281	<u>Priority</u> :	High
282	<u>Difficulty</u> :	High
283 284	3.2. The system val	1CT-002:Task.create.validate idates the task name.
285	<u>Priority</u> :	High
286	<u>Difficulty</u> :	Low
287 288 289	3.3. The system say started.	1CT-003:Task.create.validate.notEqual ves the task name in the database with an ID, name and initial date. The task is
290	<u>Priority</u> :	High
291	<u>Difficulty</u> :	Low
292 293 294 295	presents a set	1CT-004:Task.create.AutoComplete alyzes the text box. When the user enters three or more characters, the system of suggested active tasks in a drop down list. The suggested task name start with inserted by the user.
293 294	The system an presents a set	alyzes the text box. When the user enters three or more characters, the system of suggested active tasks in a drop down list. The suggested task name start with
293 294 295	The system an presents a set the characters	alyzes the text box. When the user enters three or more characters, the system of suggested active tasks in a drop down list. The suggested task name start with inserted by the user. High
293 294 295 296	The system an presents a set the characters Priority: Difficulty: 3.5. The system all	alyzes the text box. When the user enters three or more characters, the system of suggested active tasks in a drop down list. The suggested task name start with inserted by the user. High Medium
293 294 295 296 297 298 299	The system an presents a set the characters Priority: Difficulty: 3.5. The system all	alyzes the text box. When the user enters three or more characters, the system of suggested active tasks in a drop down list. The suggested task name start with inserted by the user. High Medium 2ET-001: EditTask ows the edition of the fields name and description. The system allows insert,



303	3.6.	2ET-002: EditTask.save
304	The system val	idates the name and times between start date and end date
305	<u>Priority</u> :	Medium
306	<u>Difficulty</u> :	Medium
307	3.7.	2ET-003: EditTask.save.true
308		odates the task name in the database with the name, start and end date of
309	individual time	s and description of a task
310	<u>Priority</u> :	Medium
311	<u>Difficulty</u> :	Medium
312	3.8.	2ET-004:EditTask.save.false
313	In each field, th	ne system presents an error message "Invalid field!" and the reason.
314	<u>Priority</u> :	Medium
315	<u>Difficulty</u> :	Medium
316	3.9.	
317	•	eletes the selected task and updates the database. The system should ask for
318	confirmation b	efore deleting the task. The system only allows to delete tasks stopped.
319	<u>Priority</u> :	Medium
320	<u>Difficulty</u> :	Low
321	3 10	4STT-001: StartTime
322		ops the current task if there is one and starts counting the time for the selected
323	task.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
324	<u>Priority</u> :	High
325	<u>Difficulty</u> :	Medium
326	3.11.	5ST-001: StopTime
327		ps the time and updates the information of the task and saves it in database.
328	<u>Priority</u> :	High
329	<u>Difficulty</u> :	Medium



330	3.12.	6CT-001: ChangeRunningTask
331	The system allows the change of the running task through a combination keys or stopping the	
332	current task an	d starting another.
333	<u>Priority</u> :	High
334	<u>Difficulty</u> :	High
335		6CT-002: ChangeRunningTask.CombinationFail
336	The system pla	ys a beep if the pressed shortcut isn't associated with a task.
337	<u>Priority</u> :	High
338	Difficulty:	High
339	3 14	6CT-003: ChangeRunningTask.Success
340		started the system presents a brief popup to the user that disappears without
341	user intervention	
342	<u>Priority</u> :	High
343	<u>Difficulty</u> :	High
344	3.15.	7CT-001: ChangeTask Status
345		ads all tasks from database and allows selecting them for change of status. It
346	-	o change the status of running tasks.
347	<u>Priority</u> :	Medium
348	<u>Difficulty</u> :	Low
349	3.16.	8AI-001: Inactivity
350	The system ver	ifies the user's inactivity for a period of time. The system stops the time and
351	saves this time	in database. The system starts other new time.
352	<u>Priority</u> :	High
353	<u>Difficulty</u> :	High



354	3.17.	8AI-002: Inactivity.Notify
355	The system blo	ocks the screen and asks the user what he wants to do. The user chooses to
356	ignore the time	e or add the time to the running task.
357	<u>Priority</u> :	High
358	<u>Difficulty</u> :	Medium
359		8AI-003: Inactivity.Notify.Adds
360	The system sav	res the inactivity time in database and adds this time to the running task.
361	<u>Priority</u> :	High
362	<u>Difficulty</u> :	Medium
363	3.19.	8AI-003: Inactivity.Notify.Ignores
364	The system ign	ores the time until last activity and starts a new time to the current task.
365	<u>Priority</u> :	Medium
366	<u>Difficulty</u> :	Low
367 368		12CIT-001: ConfigureInactiveTime eives a duration for the inactivity time if the user activated the inactivity alert.
369	Priority:	Medium
370	<u>Difficulty</u> :	Low
371 372		12CIT-002: ConfigureInativeTime.Validate idates the inactive time field.
373	<u>Priority</u> :	Medium
374	<u>Difficulty</u> :	Low
375 376		12CIT-003: ConfigureInactiveTime.Validate.False esents a message with the reason it failed the validation.
377	<u>Priority</u> :	Medium
378	<u>Difficulty</u> :	Low



379 380		12CIT-004: ConfigureInactiveTime.Validate.True res the inactivity time in the database.
381	<u>Priority</u> :	Medium
382	<u>Difficulty</u> :	Low
383 384 385 386	The system all	13CS-001: ConfigureShortcuts ows the user to associate five active tasks with keyboard shortcuts. The user ing active task and a combination of keys to define the shortcut. Medium
387	<u>Difficulty</u> :	
388 389 390	The system val	13CS-002: ConfigureShortcuts.Validate idates the entered choices. The system verifies if a shortcut was entered and a also verifies the existence of duplicated shortcuts or tasks.
391	<u>Priority</u> :	Medium
392	<u>Difficulty</u> :	Low
393 394 395	The system sav	13CS-003: ConfigureShortcuts.Validate.True res the information into database: task name and shortcuts. Medium
396	<u>Difficulty</u> :	Low
397 398 399		13CS-004: ConfigureShortcuts.Validate.False sents message with the reason it failed the validation. Medium
400	<u>Difficulty</u> :	Low
401 402 403	The system loa	14VTD-001: TaskDetails ds the selected task information from the database and presents the task name, the individual times list with start date, end date and time spent.
404	<u>Priority</u> :	High
405	<u>Difficulty</u> :	Medium



406 407		14VTD-002: TaskDetails.Calculate culates the time spent for each individual time entry.
407	The system can	culates the time spent for each individual time entry.
408	<u>Priority</u> :	High
409	<u>Difficulty</u> :	Medium
410	3.30.	15FIT-001: FilterTask
411	The system allo	ows the filtering of the inactive tasks and only presents the active tasks.
412	Priority :	High
413	<u>Difficulty</u> :	Medium
414	3.31.	15FIT-002: FilterTask.ShowAll
415	The system gro	oups the active tasks and inactive tasks in different groups.
416	<u>Priority</u> :	High
417	<u>Difficulty</u> :	High
		4677 004 7
418		16ED-001: ExportData
419	The system allo	ows the user to choose the path to save the exported file.
420	<u>Priority</u> :	Medium
421	<u>Difficulty</u> :	Medium
422	3.33.	16ED-002: ExportData.Export
423		ds all the data to be exported from the database. The data is exported to a .csv
424	file.	
425	<u>Priority</u> :	Medium
426	<u>Difficulty</u> :	Medium
427	3.34.	17TL-001: TaskList
428 429	•	ows the show/hide of the task list. This list can be sorted by name, total time lay or stop date.
430	Priority:	High
431	<u>Difficulty</u> :	Medium



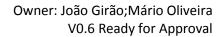
432 433		ts the tasks by descending order of stop date.
434	<u>Priority</u> :	High
435	<u>Difficulty</u> :	Medium
436 437		17TL-003: TaskList.DefaultSort.CurrentTask ows at the top of the list the current task followed by the others.
438	<u>Priority</u> :	High
439	<u>Difficulty</u> :	Medium
440 441 442	The system sor	17TL-004: TaskList.Sort Its the tasks by name, total time, spent time of day or stop date. Even if a task is assume the sorted position.
443	<u>Priority</u> :	High
444	<u>Difficulty</u> :	Low
445 446		17TL-005: TaskList.TotalTime esents the total time for each task in the format hh:mm.
447	<u>Priority</u> :	High
448	<u>Difficulty</u> :	Low
449	3.39.	17TL-006: TaskList.Today
450 451	•	esents the today time for each task in the format hh:mm. If a task doesn't have in the current day the today time should present 00:00.
451 452	Priority:	High
453	<u>Difficulty</u> :	Low
454 455 456	The system pro	17TL-007: TaskList.StopDate esents the stop date for each task in date format. If the task was performed in y, it is presented in the format hh:mm (last stop of day).
457	<u>Priority</u> :	High
458	<u>Difficulty</u> :	Low



459	3.41.	17TL-008: TaskList.Actions	
460	The system allows for each task a set of actions so the user can view the details, start/stop		
461	delete tasks an	nd activate or inactivate them.	
462	5	De. L	
462	<u>Priority</u> :	High	
463	Difficulty :	High	
464	1. Intor	rface Requirements	
404	4. Inter	nace Requirements	
465	4.1.	UI-001: MainWindow	
466	The system sho	ows minimal view with a textbox to insert the task name, a button to start/stop	
467	and add the ta	sk, a timer, a button to view the task details, a button to edit the task, a button	
468	to show the co	infigurations form, a button to hide/show the tasks list and a button to close the	
469	application.		
470	Priority:	Medium	
	<u></u>		
471	<u>Difficulty</u> :	Medium	
472	4.2.	UI-002: Buttons that are always active	
473		show configurations, to hide/show tasks list and the button to close the	
474	application are	always active.	
475	Dui auttuu	N.A. addissas	
475	<u>Priority</u> :	Medium	
476	Difficulty :	Medium	
477	1.3	UI-003: Expand list button	
477 478		ks list isn't expanded, the expand button should show the symbol of a down	
478 479		he tasks list is expanded it should show an up arrow.	
473	arrow. when t	The tasks list is expanded it should show all up arrow.	
480	Priority :	Medium	
481	<u>Difficulty</u> :	Medium	
701	<u>Difficulty</u> .	Wediam	
482	4.4.	UI-004: TextBox filled with a new task name	
483	The system act	ivates the button to add task.	
484	Priority:	Medium	
.O- 1	i Honty.	mediam.	
485	Difficulty :	Medium	



UI-005: TextBox filled with Existence task name 486 487 The system enables the start, edit and view details buttons. If the Enter key is pressed the 488 system changes the start button to stop button. 489 **Priority**: Medium 490 **Difficulty**: Medium 4.6. UI-006: TextBox with running task 491 492 The system changes the start/add button to the stop button, view details button and it starts 493 timer. The edit button is disabled. 494 **Priority**: Medium Difficulty: Medium 495 **UI-007: Clicking in view details button** 496 The system presents a form with the details of the task and an edit button. 497 498 **Priority**: Medium 499 **Difficulty**: Medium **UI-008: Clicking in edit button** 500 The edition must be inline. In times table, each line has a button to delete that line. 501 502 **Priority**: Medium **Difficulty**: Medium 503 4.9. UI-009: Clicking in configuration button 504 The system presents a form with: 505 506 an export button; a checkbox to check/uncheck inactivity alerts and a textbox to define the inactivity 507 time. This text box is enable only if the inactivity alert is checked; 508 • five lines for shortcuts definition with the following composition: 509 510 one combo box for selecting an existing task; three checkboxes for check/uncheck the control keys ctrl, alt, shift; 511 512 one textbox for and additional key. 513 514 **Priority**: Medium 515 **Difficulty**: Medium





516	4.10.	UI-UIU: Visual distinction between active and inactive
517	tasks	
518	The system sho	ould differentiate visually the active from inactive tasks
- 40	D 2 - 2 -	A A It
519	<u>Priority</u> :	Medium
520	Difficulty :	Medium
- 24	4 1 1	UI-011: Modal Window
521		
522	Always that the	e user open a form, the system doesn't allow any actions on the previous form.
523	Priority:	Medium
524	<u>Difficulty</u> :	Medium
525		
	F D C	
526	5. Perio	ormance Requirements
527	5.1.	PR-001: Startup of the application
528	The startup of the application shouldn't last longer than 15 seconds.	
	·	
529	<u>Priority</u> :	Medium
530	Difficulty:	Low
	- 0	
531	5.2.	PR-002: Transition time
532	The transition between forms, when the total number of tasks doesn't exceed 100, shouldn'	
533	last longer that	n 10 seconds.
534	Priority:	Medium
JJ +	<u>r nonty</u> .	Mediani
535	Difficulty :	Low



Appendix A: Data Dictionary

536 537

Term Description	Definition The field description accepts until 500 characters and accepts special characters.
End date	The field end date is of datetime type with the format dd-mm-yyyy hh:mm.
Inactive time	The inactive time field must be an integer number between 1 and 60.
Name	The field name accepts until 50 characters and special characters. The name is unique.
Start date	The field start date is of datetime type with the format dd-mm-yyyy hh:mm.
Status	A task has two status, active or inactive.
Time spent	The time spent field is calculated and should be presented with the following format hh:mm.
Total time	The total time field is calculated and should be presented with the following format hh:mm.

538