**3 point:**

***Requirements analysis:***

***Functional requirements***

E = (6 +4\*8 + 10) / 6=8h

***Non-Functional requirements***

E = (0.5 +4\*1 + 2) / 6=1.1h

***Refinement of acceptance criteria:***

E = (3 + 4\*4 + 6) / 6=4

***Test strategy refinement:***

E = (4 + 4\*5 + 6) / 6=5

***Writing a checklist by blocks:***

E = (4 + 4\*6 + 9) / 6=6

***Writing test cases for modules from a checklist and sorting by importance:***

Menu:

* File :

Open:

E = (0,15+ 4\*0,25 +0,35) / 6=0,25

Save as:

E = (0,15+ 4\*0,25 +0,35) / 6=0,25

Exit:

E = (0,15+ 4\*0,25 +0,35) / 6=0,25

* Edit :

Cut:

E = (0,15+ 4\*0,20+0,25) / 6=0,20

Undo:

E = (0,15+ 4\*0,20+0,25) / 6=0,20

Copy:

E = (0,15+ 4\*0,20+0,25) / 6=0,20

Paste:

(0,15+ 4\*0,20+0,25) / 6=0,20

* Help :

Content:

E = (0,10+ 4\*0,15+0,20) / 6=0,15

About List Boxer:

E = (0,10+ 4\*0,15+0,20) / 6=0,15

Main page:

Range (8 values):

E = (0,75 + 4\*1 + 1,5) / 6=1

Sort order(2 values):

E = (0,75 + 4\*1 + 1,5) / 6=1

Chose symbol (4 values):

E = (0,75 + 4\*1 + 1,5) / 6=1

Add to list (1 values):

E = (0,08+ 4\*0,11+0,14) / 6=0,11

Clear list (1 values):

E = (0,08+ 4\*0,11+0,14) / 6=0,11

Other:

E = (3 + 4\*4 + 5) / 6=4

Installation:

E = (0,75 + 4\*1 + 1,5) / 6=1

Interface:

E = (0,75 + 4\*1 + 1,5) / 6=1

***Test case execute:***

E = (6 + 4\*9 + 12) / 6=9

***Writing bug reports (for 2 medium difficulty reporting bugs):***

E = (0,5 + 4\*1+ 1,25) / 6=0.95

If 70 bugs are found:

E = (30 + 4\*35+ 40) / 6=20,92

***Reporting:***

Test plan (throughout the entire duration of the project):

E = (20 + 4\*21+ 22) / 6=21

Test result report:

E = (5 + 4\*6+ 7) / 6=6

**Total:** 107,12hours = 13,4 days (approximate number of days) + 2.7 days(20% of all risks) = 16,1 days

**Planning poker**

1 sprint (28 day)

In planning take part:

Team lead, senior tester, junior tester, developer, BA

1 sp = 1day

Determine scope of the tasks

1. Installation the program

senior tester =1sp

BA = 1 sp

junior tester=3sp

developer = 2sp

team lead = 1 sp

team lead and junior tester talk about marks and make estimation again:

senior tester =1sp

BA = 1 sp

junior tester=2sp

developer = 2 sp

team lead = 2 sp

**total: 5 sp**

1. Main menu

senior tester =1sp

BA = 2 sp

junior tester=2sp

developer = 3sp

team lead = 2 sp

**total: 7 sp**

1. General window

senior tester =2sp

BA = 3 sp

junior tester=5sp

developer = 3sp

team lead = 3 sp

team lead and junior tester talk about marks and make estimation again:

senior tester =2sp

BA = 3 sp

junior tester=3sp

developer = 3sp

team lead = 3 sp

**total: 9 sp**

write test plan team lead : 5 sp

**total estimation: 26 day**

**Story points**

|  |  |  |
| --- | --- | --- |
|  | developer | Testing engineer |
| Task 1  (req 2.1 ) | 5 sp | 3 sp |
| Task 2  (req 2.2) | 3 sp | 3 sp |
| Task 3  (req 2.6) | 1 sp | 1 sp |
| Total: | 16 sp | |

1 sp = 1 day