



Politecnico di Milano
AA 2019/2020

Computer Science and Engineering
Hypermedia Applications

User Testing Document

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Our website: <https://wild-care.herokuapp.com/index.html>

Delivery final date: July 6, 2020

Document version: 1.0
July 5, 2020

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1 Abstract

The aim of this document is to report the User-Testing-based Usability Evaluation of Wild Care website which can be found at <https://wild-care.herokuapp.com/>.

The website that is analyzed into this document is intended to provide information about Wild Care association, the events that it organizes, the services provided and the volunteers that are involved into the association and its activities. It also gives the possibility to read faqs and to sent request via a form.

Tester followed a 2 steps procedure:

1. Execute given task following scenarios while they are evaluated with specific criteria
2. Surf the website freely
3. Fulfill a form with some questions related to landmarks, navigation and layout.

2 Design of the study

2.1 User profile definition

We have defined 2 segments of user profiles heterogeneous for what concern the gender and homogeneous for what concern other age, civil state and tech capabilities.

- **User profile one**

- *Age range*: between 18 to 35 years old
- *Civil State*: single or with fiancée
- *Technology capabilities*: normal web user with no peculiar capabilities

- **User profile two**

- *Age range*: between 40 to 60 years old
- *Civil State*: married
- *Technology capabilities*: normal web user with no peculiar capabilities

2.2 Scenarios

The User testing is based on 3 scenarios

- **Scenario 1**

You are planning to go to Valtellina in September and you are looking for an event related to wild animals; once you get it you wanna know more and decide to call the event organizer.

1. Surf the events and find the Septemeber ones
2. Select an event that you like
3. Find even organizer phone number to contact him/her and get more info

- **Scenario 2**

You would like to become volunteer of an association that protects wild animals.

1. Get info about the association
2. Try to answer to your question reading faqs

3. Send a request to become volunteer
- **Scenario 3**
You are discovering Wild Care services and you would like to get more information about the event related to a certain service that you liked the most.
 1. Surf the services
 2. Select a service that you find interesting
 3. Pick a related event and see its details

2.3 Variables to measure

To evaluate the task execution we have chosen to adopt the following metrics:

- *time of execution*: the clock starts when the user directs his/her attention to the application
- *success rate*: to a "complete success" is assigned a value equal to 1, to a "partial success" is assigned a value equal to 0.5 and to a "failure" a value equal to 0.0
- *perceived difficulty*: an oral evaluation between 0 and 5 given immediately after the task execution
- *errors*: integer that express how many "wrong" links have been clicked to reach the goal or wrong paths have been taken
- *satisfaction*: an oral evaluation between 0 and 5 given immediately after the task execution

2.4 Final survey

After all tasks execution, every user fulfilled a questionnaire formed by N questions with a rating between 0 to 5. We have used Forms Pro software to create the survey and collect data; we have reported here all questions for completeness.

1. How much useful did you find the topbar?
2. How much easy has it been to find events for month?
3. How much easy has it been to find services related to events?
4. How much easy has it been to find events organized by a volunteer?
5. How much easy has it been to find volunteer's details?
6. How easily did you find the mission of the association?
7. Do you find the text layout readable?
8. Do you find images dimension good?
9. Do you find website layout consistent?
10. Are semantic close events also close into the space?

The survey can be found at link

<https://forms.office.com/FormsPro/Pages/ResponsePage.aspx?id=8eAiizYZfk-CTpheWGbGkZgSwAPI3GJPvXJ0APwN3yxUNU42NjFRRTIwTlA5SENQWTNKVEwwQzRBTS4u>.

3 Execution of the study

The study has been executed in person at the end of the development of the website. The testers used their own laptop or our while we manually gather usability data. We took two tests at a time in parallel to reduce time and make it faster. In order to be sure that every tester didn't see the website before the execution we divided them in different rooms, who was doing the test was in one room with one of the developers and the others where waiting in the living room.

We have also chosen to respect our tester privacy and, for this reason, they are represented here through IDs.

3.1 User Profile 1

Here it is possible to see the result of task execution of each user belonging to user profile 1.

Table 1: Evaluation tester ID 0000

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	10	1.0	0	0	5
Scenario 1	2	5	1.0	0	0	5
Scenario 1	3	10	1.0	0	0	5
Scenario 2	1	11	1.0	0	0	4
Scenario 2	2	6	1.0	0	0	5
Scenario 2	3	37	1.0	1	2	4
Scenario 3	1	10	1.0	0	0	4
Scenario 3	2	12	1.0	0	0	4
Scenario 3	3	24	1.0	0	0	4

Table 2: Evaluation tester ID 0002

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	11	1.0	0	0	4
Scenario 1	2	6	1.0	0	0	5
Scenario 1	3	12	1.0	1	0	4
Scenario 2	1	8	1.0	0	0	5
Scenario 2	2	28	1.0	0	0	4
Scenario 2	3	13	1.0	0	0	5
Scenario 3	1	15	1.0	0	0	4
Scenario 3	2	13	1.0	0	0	5
Scenario 3	3	21	1.0	1	0	5

Table 3: Evaluation tester 0003

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	7	1.0	0	0	5
Scenario 1	2	6	1.0	0	0	5
Scenario 1	3	19	1.0	0	0	5
Scenario 2	1	9	1.0	0	0	5
Scenario 2	2	20	1.0	1	0	5
Scenario 2	3	34	1.0	0	0	5
Scenario 3	1	8	1.0	0	0	5
Scenario 3	2	11	1.0	0	0	5
Scenario 3	3	13	1.0	0	0	5

Table 4: Evaluation tester 0007

Scenario	Task	Execution Time	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	9	1.0	0	0	5
Scenario 1	2	5	1.0	0	0	5
Scenario 1	3	15	1.0	0	1	5
Scenario 2	1	10	1.0	0	0	5
Scenario 2	2	40	1.0	1	1	5
Scenario 2	3	55	1.0	0	1	5
Scenario 3	1	4	1.0	0	0	5
Scenario 3	2	10	1.0	0	0	5
Scenario 3	3	15	1.0	0	0	5

Table 5: Evaluation tester 0008

Scenario	Task	Execution Time	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	10	1.0	0	0	5
Scenario 1	2	21	1.0	0	0	5
Scenario 1	3	20	1.0	0	0	5
Scenario 2	1	6	1.0	1	1	4
Scenario 2	2	88	1.0	3	0	5
Scenario 2	3	91	1.0	0	0	5
Scenario 3	1	4	1.0	0	0	5
Scenario 3	2	10	1.0	0	0	5
Scenario 3	3	20	1.0	1	1	4

3.2 User Profile 2

Here it is possible to see the result of task execution of each user belonging to user profile 2. They got some problems when they had to find the phone number of a volunteer that organized a

certain event (*Scenario 1: task 3*) and the errors they made were given by the fact that they were searching this kind of information into "About us" page or by going to "All People" without remembering the organizer's name. They suggested to put organizers info upper into the "Event" page or add contact info directly to the "Event" page.

Table 6: Evaluation tester ID 0001

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	13	1.0	0	0	5
Scenario 1	2	7	1.0	0	0	5
Scenario 1	3	18	1.0	2	2	3
Scenario 2	1	6	1.0	0	0	5
Scenario 2	2	11	1.0	0	0	5
Scenario 2	3	12	1.0	0	0	5
Scenario 3	1	15	1.0	0	0	5
Scenario 3	2	17	1.0	0	0	5
Scenario 3	3	12	1.0	1	0	4

Table 7: Evaluation tester ID 0004

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	13	1.0	0	0	5
Scenario 1	2	9	1.0	0	0	5
Scenario 1	3	15	1.0	1	1	4
Scenario 2	1	25	1.0	1	1	4
Scenario 2	2	7	1.0	0	0	5
Scenario 2	3	18	1.0	0	0	5
Scenario 3	1	11	1.0	0	0	5
Scenario 3	2	4	1.0	0	0	5
Scenario 3	3	10	1.0	0	0	5

Table 8: Evaluation tester ID 0005

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	21	1.0	0	0	5
Scenario 1	2	12	1.0	0	0	5
Scenario 1	3	25	1.0	2	2	4
Scenario 2	1	7	1.0	0	0	5
Scenario 2	2	5	1.0	0	0	5
Scenario 2	3	4	1.0	0	0	5
Scenario 3	1	13	1.0	0	0	5
Scenario 3	2	20	1.0	0	0	5
Scenario 3	3	21	1.0	0	0	4

Table 9: Evaluation tester ID 0006

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	14	1.0	0	0	5
Scenario 1	2	4	1.0	0	0	5
Scenario 1	3	18	1.0	1	2	4
Scenario 2	1	5	1.0	0	0	5
Scenario 2	2	11	1.0	0	0	5
Scenario 2	3	5	1.0	0	0	5
Scenario 3	1	22	1.0	0	0	5
Scenario 3	2	19	1.0	0	0	5
Scenario 3	3	15	1.0	0	0	5

4 Results

This subsection shows the avg. of *User Profile 1*'s results, the avg. of *User Profile 2*'s results and the avg. between the two. We have chosen to give you also the separates view of the two groups to better understand how different segments react to the same tasks.

4.1 Avg. User Profile 1

Table 10: Avg per task

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	9,4	100%	0	0	4,8
Scenario 1	2	8,6	100%	0	0	5
Scenario 1	3	15,2	100%	0,2	0,2	4,8
Scenario 2	1	8,8	100%	0,2	0,2	4,6
Scenario 2	2	36,4	100%	0	0,2	4,8
Scenario 2	3	46	100%	0,4	0,6	4,8
Scenario 3	1	8,2	100%	0	0	4,6
Scenario 3	2	11,2	100%	0	0	4,8
Scenario 3	3	18,6	100%	0,4	0,2	4,6

It is possibile to see that, for this segment, the tasks 2 and 3 of scenario 2 has been the most complex and difficult and it can be seen because the execution time is the heigher as the number of mistakes made and as the perceived difficulty. Even though the results into scenario 2 aren't that good, the satisfaction is high because they said that the problems they faced where related to the language. They suggested to add the multi-language feature in other to avoid the language barrier. The next figure has the aim to show the avg between all scenarios.

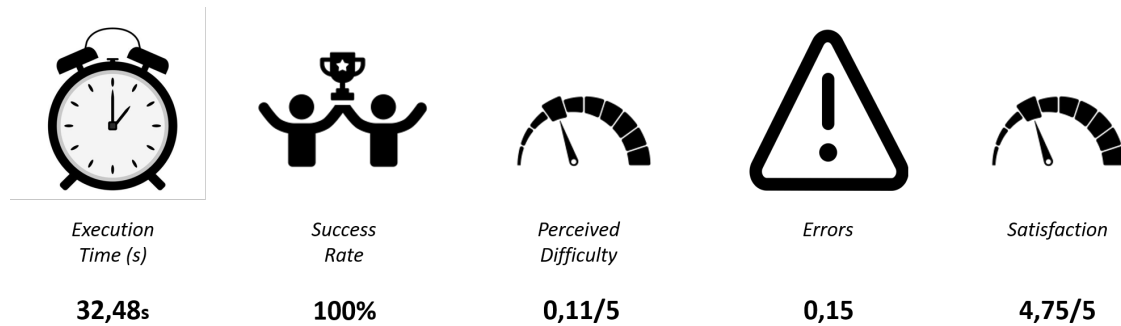


Figure 1: Total Avg. user profile 1: the avg obtained here is between the 3 scenarios

4.2 Avg. User Profile 2

Table 11: Avg per task

Scenario	Task	Execution Time (s)	Success	Perceived Difficulty	Errors	Satisfaction
Scenario 1	1	15,25	100%	0	0	5
Scenario 1	2	8	100%	0	0	5
Scenario 1	3	19	100%	1,5	1,75	3,75
Scenario 2	1	10,75	100%	0,25	0,25	4,75
Scenario 2	2	8,5	100%	0	0	5
Scenario 2	3	9,75	100%	1	0,5	4
Scenario 3	1	15,25	100%	0	0	5
Scenario 3	2	15	100%	0	0	5
Scenario 3	3	14,5	100%	0,25	0	4,5

It is possible to see that for this segment the 3 task of scenario 1 has been the most complex and difficult and it can be seen because the execution time is the heigher as the number of mistakes made and the satisfaction rate is the lower one.

The next figure has the aim to show the avg between all scenarios.

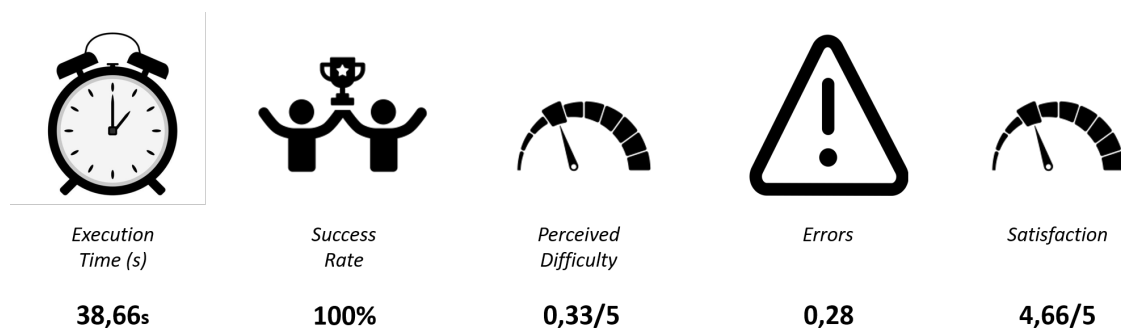


Figure 2: Total Avg. user profile 2: the avg obtained here is between the 3 scenarios

4.3 Total Avg.

We have seen that there isn't a big difference between the results obtained by the 2 segments and we have also noticed that the avg of segment 2 is always higher than the avg obtain by segment 1 except for the satisfaction, which is lower. The next figure wrap up the results of the two, in order to give a general final picture of scenarios. execution.

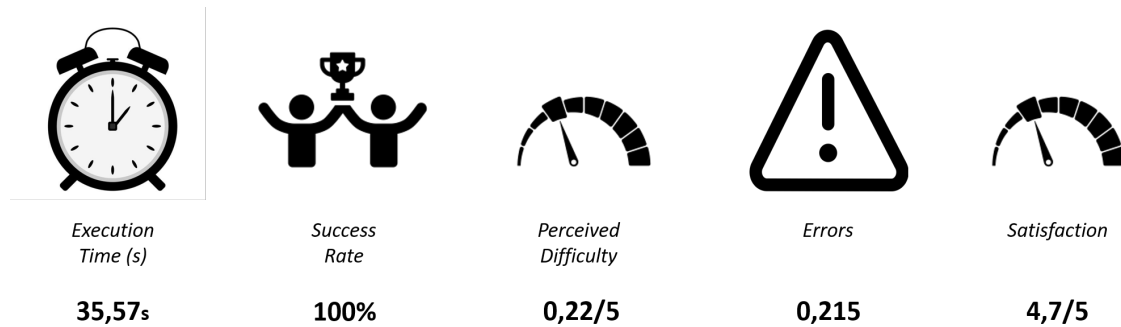


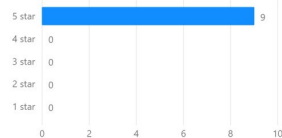
Figure 3: Total Avg.: the avg obtained here is between the 2 segments

4.4 Survey results

This section has the aim to show the avg result of each survey question and how the answers are divided between the different values.

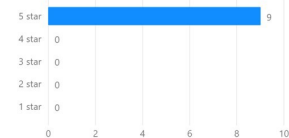
Question 1) How much useful did you find the topbar?

★★★★★
5.00 Average Rating



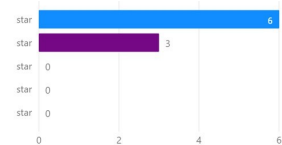
Question 2) How much easy has it been to find events for month?

★★★★★
5.00 Average Rating



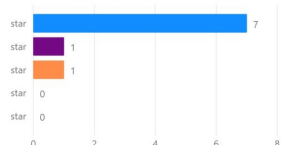
Question 3) How much easy has it been to find services related to events?

★★★★★
4.67 Average Rating



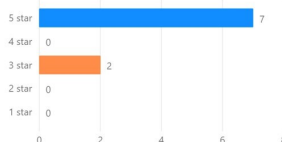
Question 4) How much easy has it been to find events organized by a volunteer?

★★★★★
4.67 Average Rating



Question 5) How much easy has it been to find volunteer's details?

★★★★★
4.56 Average Rating



Question 6) How easily did you find the mission of the association?

★★★★★
5.00 Average Rating

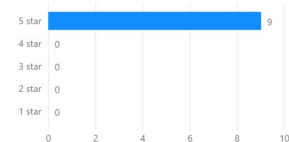
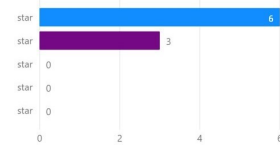


Figure 4: Survey answers results

Question 7) Do you find the text layout readable?



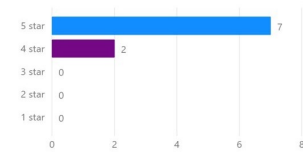
4.67 Average Rating



Question 8) Do you find images dimension good?



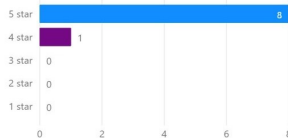
4.78 Average Rating



Question 9) Do you find website layout consistent?



4.89 Average Rating



Question 10) Are semantic close elements also close into the space?



4.56 Average Rating

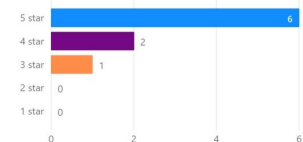


Figure 5: Survey answers results

The questions done into the survey focus on navigation and layout, while we didn't decide to put questions on content because we "invented" it for this particular exam and may not be that real. For what concern the navigation the overall result has been of 4,81 / 5 stars. For what concern the layout the overall result has been 4,725 / 5 stars.

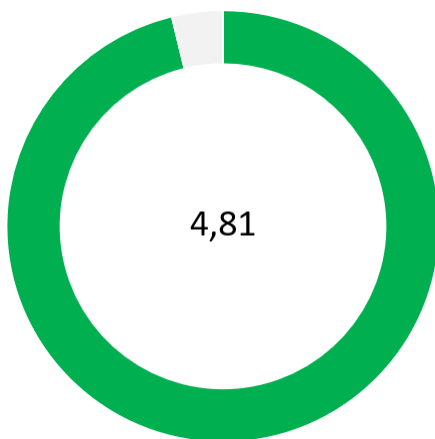


Figure 6: Navigation results

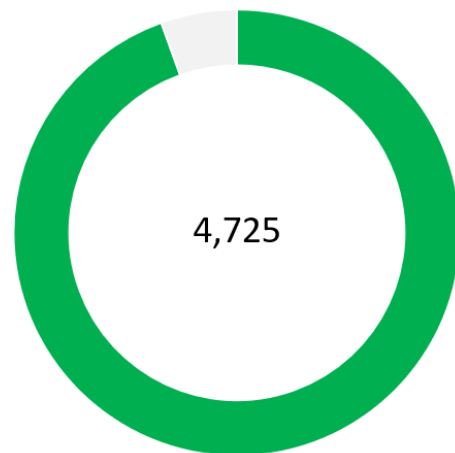


Figure 7: layout

5 Conclusion

We have already discussed into the results section the issued encountered by our testers but as conclusion we can say that our testers appreciated the website in its structure, layout and graphical elements and that they didn't face big issues. A suggestion that we received is that, if this website was for general public we should have provided better contents.