



# Thoth

## Tarefa do Teste de Usabilidade - Cenários de Uso

### Escopo da Avaliação

Página inicial	Planejamento da RSL
Cadastro de novo usuário	Condução da RSL
Login	Relatório
Cadastro de novo projeto	Exportação de resultados
Visão geral	

### Cenários de Uso

#### Logar no Sistema (Figura 1)

- Se o usuário não for cadastrado no sistema, realizar cadastro.
- Caso já possua cadastro faça o login.

The screenshot shows the Thoth application's login interface. At the top, there is a navigation bar with the Thoth logo, links for 'About' and 'Help', a search bar with the placeholder 'Search in Thoth', and buttons for 'Sign in' and 'Sign up'. The main content area is light blue and contains a white 'Sign In' form. The form has a title 'Sign In' and two input fields: 'Email address' with the placeholder 'Enter email' and 'Password' with the placeholder 'Password'. Below the password field is a green 'Sign In' button. A link for 'Forgot your login information?' is located between the email and password fields.

Figura 1 - Logar no Sistema

### Registro do novo projeto

#### Registrar um novo projeto (Figura 2)

Clique no botão "Create New project"



Figura 2 - Registrar um novo projeto

### Cadastrar novo projeto

#### Cadastrar informações do novo projeto (Figura 3)

Title	Teste de Usabilidade
Description	Criar um projeto para realizar um teste de usabilidade
Objetivos	Conduzir um Teste de Usabilidade que ajudará a melhorar o sistema Toth.

Em seguida, pressione o botão **"New project"**

### New Project

Title

Enter title

Description

Description

Objectives

Objectives

Copy Planning

Select an project to copy planning

Comments

For the creation of the project it is recommended that the user be a researcher and not a reviewer or other role, because once created, your administrator role cannot be changed or passed on.

Create Project

Figura 3 - Cadastrar novo projeto

Planning

Informações gerais

Overall Information (Figura 4)	
Domains	Usability Evaluation Method
	Web tools
Select Languages	English
Select study type	Article
Keywords	USABILITY
	WEB TOOLS
	EVALUATION

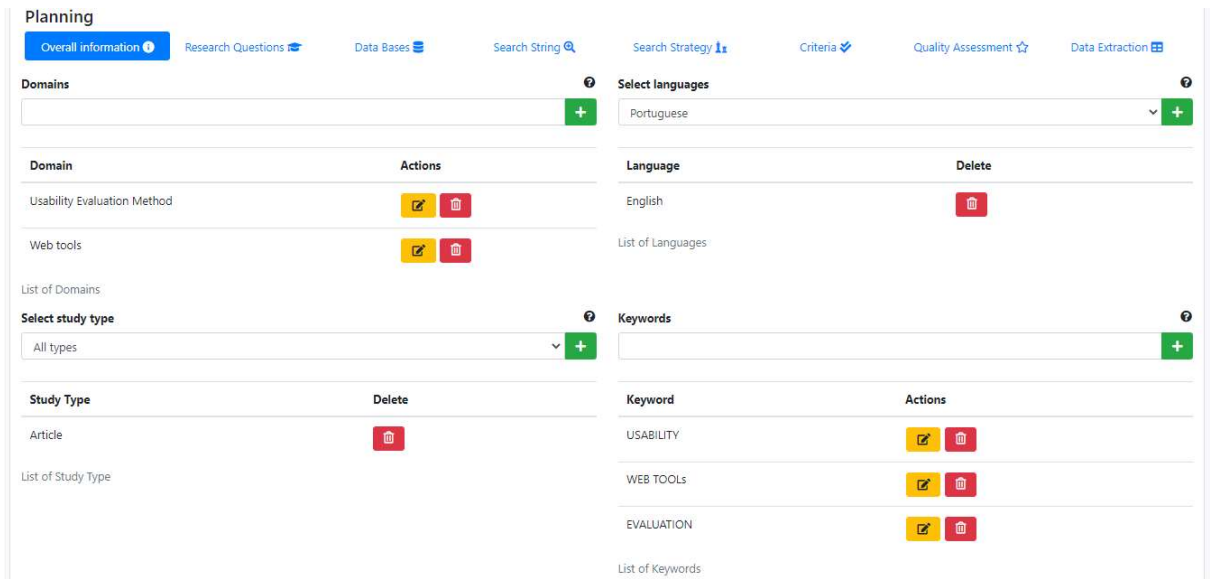


Figura 4 - Registrar informações gerais do projeto

Questões de pesquisa

Adicionar Research Questions (Figura 5)	
IDs	Descriptions
RQ1	What are the usability methods used to evaluate web tools?

RQ2	How have these methods been used to evaluate these tools?
RQ3	What are the problems of limitations they encountered using these evaluated methods?
RQ4	What is the empirical validation of the Usability Evaluation Methods?
RQ5	What are the usability metrics used?

The screenshot shows the 'Planning' tab with the 'Data Extraction' section active. It features a form with fields for 'ID', 'Description', and 'Type of Data' (set to 'Text'). Below this is an 'Option' section with a dropdown menu showing 'Q5' and a text input field for the option description. There are green '+' buttons for adding new entries.

**Figura 5 - Preencher as data de extração**

## Bases de dados

Inserir Data Bases (Figura 6 )	
Base	Link
Science direct	<a href="https://www.science-direct.com">Science direct.bib</a>
IEEE	<a href="https://ieeexplore.ieee.org">IEEE.bib</a>

The screenshot shows the 'Planning' tab with the 'Data Bases' section active. It features a form with fields for 'Database' and 'Other Database Link'. Below this is a table with columns 'Database' and 'Delete', listing 'ACM', 'IEEE', and 'SCIENCE DIRECT' with delete icons. There are green '+' buttons for adding new entries.

**Figura 6 - Inserir Data Bases**

## String de Busca

Inserir Search String (Figura 7 )	
Term	Synonym
Usability	User Centered Design
	User Experience
Evaluation	evaluating
	assessment
	validation
Web Tools	web application
	web system

Overview Planning Conducting Reporting Export

Planning

Overall information Research Questions Data Bases Search String Search Strategy Criteria Quality Assessment Data Extraction

Search String

Term

+

Synonym

Term

Select term

Add a Synonym to Term

Synonym

+

Term	Synonyms	Actions
------	----------	---------

Figura 7 - Inserir Termos e Sinônimos

## Clicar no Botão String Improver

Registrar um novo projeto (Figura 8)	
Generic	Clique no botão "Generate"
IEEE	Clique no botão "Generate"
Science direct	Clique no botão "Generate"

String Improver

Strings

Generic

(Usability OR "User Centered Design" OR "User Experience") AND (Evaluation OR evaluating OR assessment OR validation) AND ("Web Tools" OR "web application" OR "web system")

Generate

IEEE

(Usability OR "User Centered Design" OR "User Experience") AND (Evaluation OR evaluating OR assessment OR validation) AND ("Web Tools" OR "web application" OR "web system")

Generate

SCIENCE DIRECT

(Usability OR "User Centered Design" OR "User Experience") AND (Evaluation OR evaluating OR assessment OR validation) AND ("Web Tools" OR "web application" OR "web system")

Generate

Previous

Next

**Figura 8 - Clicar no Botão String Improver**

### Critérios de Inclusão e exclusão

Definir critérios de inclusão e exclusão (Figura 9 )		
Criteria	IDs	Description
Inclusion Criteria	CI1	The article presents a usability evaluation method for web tools.
	CI2	Studies reporting usability evaluations in the Web using.
Exclusion Criteria	CE1	Only complete articles will be accepted.
	CE2	Duplicate reports of the same study in different sources.
	CE3	Papers not written in English.
Inclusion Rule	Any	
Exclusion Rule	Any	

Overall information ⓘ
Research Questions 📄
Data Bases 📖
Search String 🔍
Search Strategy 📋
Criteria ✓
Quality Assessment ☆
Data Extraction 📄

Criteria ⓘ

ID

ID





Description

Type

Inclusion

+

Inclusion Criteria







Select	ID	Criteria	Actions
<input type="checkbox"/>	CI1	The article presents a usability evaluation method for web tools.	 
<input type="checkbox"/>	CI2	Studies reporting usability evaluations in the Web using.	 

List of Inclusion Criteria

Inclusion Rule

Any

Exclusion Criteria

Select	ID	Criteria	Actions
<input type="checkbox"/>	CE1	Only complete articles will be accepted.	 
<input type="checkbox"/>	CE2	Duplicate reports of the same study in different sources.	 
<input type="checkbox"/>	CE3	Papers not written in English.	 

List of Exclusion Criteria

**Figura 9 - Definir critérios de inclusão e exclusão**

## Avaliação da qualidade

Pontuação geral (Figura 10)		
General Score Interval		General Score Descrição
0	1	Bad
1.1	2	Regular
2.1	3	Medium
3.1	4	Good
4.1	5	Excellent
Minimum General Score to Approve		Medium

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General Score

General Score Interval

4.5

5

General Score Description

Description

+

Minimum General Score to Approve

Medium











Start Score Interval	End Score Interval	Score Description	Actions
0	1	Bad	 
1.1	2	Regular	 
2.1	3	Medium	 
3.1	4	Good	 
4.1	5	Excellent	 

Figura 10 - Definir escore das questões de qualidade

### Avaliação da qualidade

Inserir questões de qualidade e seu score (Figura 11)						
Question Quality			Question Score			
ID	Description	Weight	Question	Score Rule	Score	Description
Q1	Does the paper present usability evaluation methods to evaluate web tools?	1	Q1	N	0%	No
				P	50%	Partial
				Y	100%	Yes
Q2	Does the paper mention how these methods have been used to evaluate these tools?	1	Q2	N	0%	No
				P	50%	Partial
				Y	100%	Yes
Q3	Does the paper mention the limitation problems encountered using these evaluated methods?	1	Q3	N	0%	No
				P	50%	Partial
				Y	100%	Yes
Q4	Does the paper present the usability metrics		Q4	N	0%	No



	used?	1		P	50%	Partial
				Y	100%	Yes
Q5	Does the paper present an empirical usability evaluation method?	1	Q5	N	0%	No
				P	50%	Partial
				Y	100%	Yes

**Question Quality**

ID  Description  Weight

**Question Score**

Question  Score Rule  Score: 0%  Description

ID	Description	Scores Rules	Weight	Minimum to Approve	Actions																
Q1	Does the paper present usability evaluation methods to evaluate web tools?	<table> <thead> <tr> <th>Score Rule</th> <th>Score</th> <th>Description</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>0%</td> <td>No</td> <td> </td> </tr> <tr> <td>P</td> <td>50%</td> <td>Partial</td> <td> </td> </tr> <tr> <td>Y</td> <td>100%</td> <td>Yes</td> <td> </td> </tr> </tbody> </table>	Score Rule	Score	Description	Actions	N	0%	No		P	50%	Partial		Y	100%	Yes		1	<input type="text"/>	
Score Rule	Score	Description	Actions																		
N	0%	No																			
P	50%	Partial																			
Y	100%	Yes																			
Q2	Does the paper mention how these methods have been used to evaluate these tools?	<table> <thead> <tr> <th>Score Rule</th> <th>Score</th> <th>Description</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>0%</td> <td>No</td> <td> </td> </tr> <tr> <td>P</td> <td>50%</td> <td>Partial</td> <td> </td> </tr> <tr> <td>Y</td> <td>100%</td> <td>Yes</td> <td> </td> </tr> </tbody> </table>	Score Rule	Score	Description	Actions	N	0%	No		P	50%	Partial		Y	100%	Yes		1	<input type="text"/>	
Score Rule	Score	Description	Actions																		
N	0%	No																			
P	50%	Partial																			
Y	100%	Yes																			

**Figura 11 - Inserir questões de qualidade e seu score**

Q3	Does the paper mention the limitation problems encountered using these evaluated methods?	<table> <thead> <tr> <th>Score Rule</th> <th>Score</th> <th>Description</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>0%</td> <td>NO</td> <td> </td> </tr> <tr> <td>P</td> <td>50%</td> <td>Partial</td> <td> </td> </tr> <tr> <td>Y</td> <td>100%</td> <td>Yes</td> <td> </td> </tr> </tbody> </table>	Score Rule	Score	Description	Actions	N	0%	NO		P	50%	Partial		Y	100%	Yes		1	<input type="text"/>	
Score Rule	Score	Description	Actions																		
N	0%	NO																			
P	50%	Partial																			
Y	100%	Yes																			
Q4	Does the paper present the usability metrics used?	<table> <thead> <tr> <th>Score Rule</th> <th>Score</th> <th>Description</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>0%</td> <td>No</td> <td> </td> </tr> <tr> <td>P</td> <td>50%</td> <td>Partial</td> <td> </td> </tr> <tr> <td>Y</td> <td>100%</td> <td>Yes</td> <td> </td> </tr> </tbody> </table>	Score Rule	Score	Description	Actions	N	0%	No		P	50%	Partial		Y	100%	Yes		1	<input type="text"/>	
Score Rule	Score	Description	Actions																		
N	0%	No																			
P	50%	Partial																			
Y	100%	Yes																			
Q5	Does the paper present an empirical usability evaluation method?	<table> <thead> <tr> <th>Score Rule</th> <th>Score</th> <th>Description</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>0%</td> <td>No</td> <td> </td> </tr> <tr> <td>P</td> <td>50%</td> <td>Partial</td> <td> </td> </tr> <tr> <td>Y</td> <td>100%</td> <td>Yes</td> <td> </td> </tr> </tbody> </table>	Score Rule	Score	Description	Actions	N	0%	No		P	50%	Partial		Y	100%	Yes		1	<input type="text"/>	
Score Rule	Score	Description	Actions																		
N	0%	No																			
P	50%	Partial																			
Y	100%	Yes																			

**Figura 11 - Inserir questões de qualidade e seu score**

Extração de dados

Definir tipo de dados e suas opções para cada questão de pesquisa (Figura 12 )			
ID	Description	Type of Data	Option
Q1	What are the usability methods used to evaluate web tools?	Text	
Q2	How have these methods been used to evaluate these tools?	Text	
Q3	What are the problems of limitations they encountered using these evaluated methods?	Text	
Q4	Does the paper present the usability metrics used?	Text	
Q5	What is the empirical validation of the Usability Evaluation Methods?	Multiple Choice List	Case study
			Survey
			Controlled experiment
			N/A

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Data Extraction

ID Description Type of Data

Option Question Option

ID	Description	Type	Options	Actions										
Q1	What are the usability methods used to evaluate web tools?	Text												
Q2	How have these methods been used to evaluate these tools?	Text												
Q3	What are the problems of limitations they encountered using these evaluated methods?	Text												
Q4	Does the paper present the usability metrics used?	Text												
Q5	What the empirical validation of the Usability Evaluation Methods?	Multiple Choice List	<table border="1"> <thead> <tr> <th>Option</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>Case study</td> <td> </td> </tr> <tr> <td>Survey</td> <td> </td> </tr> <tr> <td>Controlled experiment</td> <td> </td> </tr> <tr> <td>N/A</td> <td> </td> </tr> </tbody> </table>	Option	Actions	Case study		Survey		Controlled experiment		N/A		
Option	Actions													
Case study														
Survey														
Controlled experiment														
N/A														

Figura 12 - Definir tipo de dados e suas opções para cada questão de pesquisa

## Conducting

### Data Base

#### Inclusão de Data Base (Figura 13)

A seguir serão fornecidos os arquivos que servirão como apoio para continuar executando o protocolo da RSL.

- Baixar os arquivos.txt:

1- [Science direct.bib](#)

2- [IEEE.bib](#)

No combobox de "Database" selecione "Science direct", depois vá para o campo escolher arquivo, clique em "browse" para adicionar o arquivo "[Science direct.bib](#)" encontrado naquele endereço que foi baixado posteriormente e renomeado (Science direct.bib). Finalmente, clique no símbolo de adicionar do campo verde. Repita o processo, mude a base de Science direct para IEEE, mas nesse processo use o arquivo "[IEEE.bib](#)" renomeado (IEEE.bib).

**Nota:** Os arquivos baixados devem ser renomeados antes de usar na ferramenta. Troque o nome [Science direct.txt](#) por [Science direct.bib](#). Realize a mesma mudança para IEEE, troque [IEEE.txt](#) para IEEE.bib.

Estes arquivos (Science direct e IEEE) também estão localizados na pasta denominada Avaliação Heurística, dentro da pasta principal.

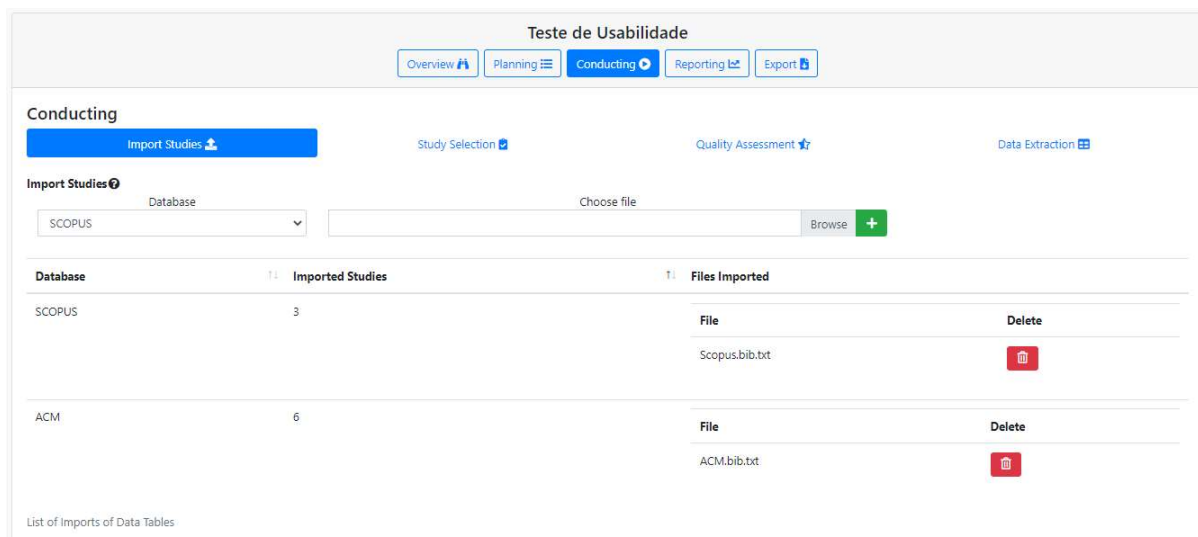


Figura 13 - Adicionar os arquivos das bases de dados

### Excluir artigos duplicados (Figura 14)

Para excluir os artigos duplicados clique na aba "Conducting" em seguida clique em "Study Selection", ao abrir a tela clique no ícone de artigos duplicados para que os mesmos sejam excluídos.

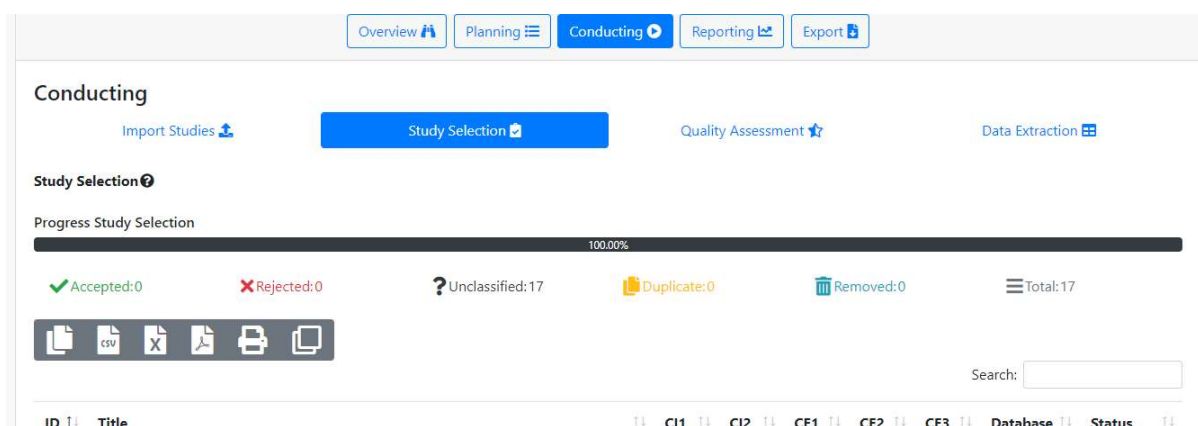


Figura 14 - Excluir artigos duplicados

### Classificação dos artigos (Figura 15)

Após importar as bases (Science direct e IEEE), clique no painel de Seleção de Estudos para poder classificar os artigos carregados. Eles aparecerão com o status “Não Classificado”, mas uma vez selecionado um critério de inclusão ou exclusão, o status se tornará Rejeitado ou Aceito. Os artigos devem ser selecionados um a um até que todos fiquem classificados.

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Progress Study Selection

Accepted:0

Rejected:0

Unclassified:4

Duplicate:5

Removed:0

Total:9

CSV

XLS

PDF

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Copy

Search:

ID	Title	CI1	CI2	CE1	CE2	CE3	Database	Status
17	Evaluating the usability of transactional web sites	False	False	False	False	False	SCOPUS	Unclassified
18	Measuring usability and purchase intention for online travel booking: A case study	False	False	False	False	False	SCOPUS	Unclassified
20	Comparing Usability Problems and Redesign Proposals as Input to Practical Systems Development	False	False	False	False	False	ACM	Unclassified
22	HEUA: A Heuristic Evaluation with Usability and Accessibility Requirements to Assess Web Systems	False	False	False	False	False	ACM	Unclassified

ID

Title

CI1

CI2

CE1

CE2

CE3

Unclassifi

Figura 15 - Selecionar artigos

### Classificar artigos (Figura 16)

Clique em cada artigo para classificá-los.

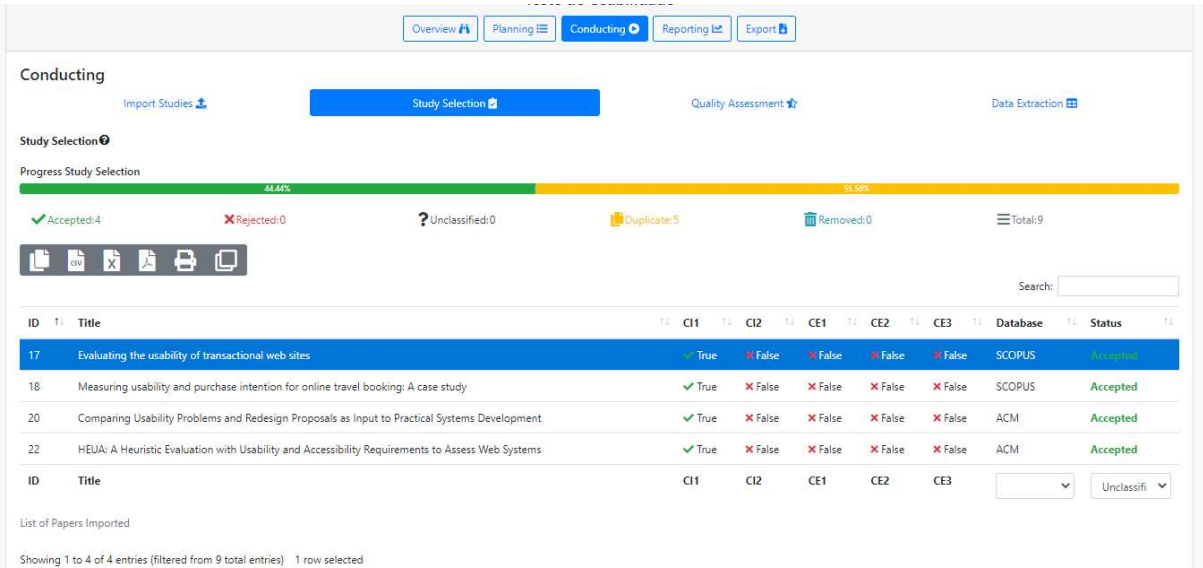


Figura 16 - Artigos classificados

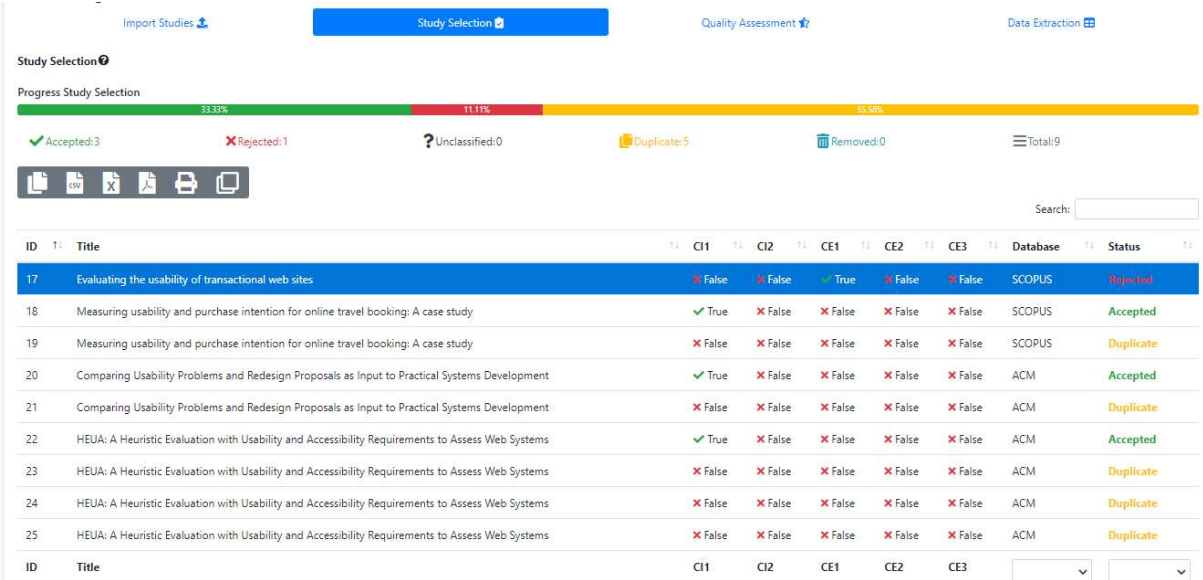


Figura 17 - Artigos classificados

**Selecionar estudos aceitos (Figura 18)**

Após completar o processo de classificação dos estudos, poderá visualizar a avaliação de qualidade dos trabalhos em “Quality Assessment”.

O campo referente a cada uma das questões de pesquisa devem ser preenchidos com as seguintes informações Y (Yes), N (No) ou P (Partial), que indica se a questão foi respondida pelo estudo ou não:

Estudos	Q1	Q2	Q3	Q4	Q5
---------	----	----	----	----	----

Comparing Usability Problems and Redesign Proposals as Input to Practical Systems Development	Y	Y	N	P	N
HEUA: A Heuristic Evaluation with Usability and Accessibility Requirements to Assess Web Systems	Y	P	Y	N	N
Measuring usability and purchase intention for online travel booking: A case study	P	Y	Y	Y	Y

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Accepted:3

Rejected:0

Unclassified:0

Removed:0

Total:3

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XLS

PDF

Print

Search:

ID	Title	Q1	Q2	Q3	Q4	Q5	General Score	Score	Status
18	Measuring usability and purchase intention for online travel booking: A case study	P	Y	Y	Y	Y	Excellent	4.5	Accepted
20	Comparing Usability Problems and Redesign Proposals as Input to Practical Systems Development	Y	Y	N	P	N	Medium	2.5	Accepted
22	HEUA: A Heuristic Evaluation with Usability and Accessibility Requirements to Assess Web Systems	Y	P	Y	N	N	Medium	2.5	Accepted

ID

Title

Q1

Q2

Q3

Q4

Q5

General Score

Score

List of Papers for Quality Assessment

Figura 18 - Selecionar artigos aceitos

## Extração de dados

### Extrair Dados (Figura 19)

Ao Finalizar a RSL é necessário extrair os dados, para realizar esta etapa serão fornecidas as informações abaixo, pois você não terá condições de realizar a análise de cada um dos artigos e responder às questões de pesquisa, e ainda por que o objetivo da avaliação é analisar o uso da ferramenta e não análise dos artigos.

Estudos	Questões
Comparing Usability Problems and Redesign Proposals as Input to Practical Systems Development	Q1 - Think aloud user testing (TA)
	Q2 - For each usability problem the evaluators identified, they were instructed to give (a) a brief title, (b) a detailed description, and (c) a seriousness rating. Evaluators chose seriousness ratings from a commonly used scale. Rate 1 is given to a critical problem that gives rise to

	<b>Q3</b> - N/A
	<b>Q4</b> - Users' mental activity during interaction
	<b>Q5</b> - Controlled experiment
<b>HEUA: A Heuristic Evaluation with Usability and Accessibility Requirements to Assess Web Systems</b>	<b>Q1</b> - Questionnaire-Heuristic Evaluation
	<b>Q2</b> - To use HEUA, the specialist needs to answer all the questions, deciding if the system satisfies, does not satisfy or the question is not applicable to each of the requirements classified by the 10 questions (Q) listed in Table 1 Classification of 93 requirements. After applying HEUA, a set of measures should be calculated to obtain a quantitative result that indicates how much accessibility and usability requirements are fulfilled by a Web system
	<b>Q3</b> - That guidelines such as the WCAG do not enable the evaluator to distinguish serious problems from trivial ones, regardless of the existence of well-defined priority levels.
	<b>Q4</b> - N/A
	<b>Q5</b> - N/A
<b>Measuring usability and purchase intention for online travel booking: A case study</b>	<b>Q1</b> - Questionnaire, system usability scale (SUS)
	<b>Q2</b> - One thousand two hundred and fifty-five valid respondents were selected from Jakarta, Indonesia. The researcher used two established criteria to find respondents in this study. First, the respondents had to be familiar with the Internet and smartphone. Second, the respondents had to have experience with the online travel booking application of Traveloka in Indonesia. To get the valid questionnaire, we used IF-logic and filtering from Microsoft Excel software. We eliminated those questionnaires that contained the same answer for all 10 questions.



	<p><b>Q3</b> - There are several limitations in this research. First, the age distribution of participants was not evenly distributed, the percentage of participants under the age of 31 years was too large – even though young customers are potential online buyers, yet they were over-represented.</p> <p>Second, except for product diagnostics, product quality and product trust that have been examined, other influential factors such as perceived value, perceived security and privacy will be interesting to add as important factors that influence buying intentions.</p> <p>Third, in this study we focused on investigating the online travel booking website Traveloka in Jakarta.</p>
	<b>Q4</b> - user satisfaction, efficiency, and effectiveness
	<b>Q5</b> - Case study

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Progress Data Extraction

100.00%

Done: 3

To Do: 0

Removed: 0

Total: 3

PDF

CSV

XLS

JSON

Print

Search:

ID	Title	Author	Year	Database	Status
18	Measuring usability and purchase intention for online travel booking: A case study	Online travel booking; Purchase intention; System usability scale; Usability	2019	SCOPUS	Done
20	Comparing Usability Problems and Redesign Proposals as Input to Practical Systems Development	Hornbaek; Kasper and Frokjaer; Erik	2005	ACM	Done
22	HEUA: A Heuristic Evaluation with Usability and Accessibility Requirements to Assess Web Systems	Dias, Ana Luiza and de Mattos Fortes, Renata Pontin and Masiero, Paulo Cesar	2014	ACM	Done

ID

Title

Author

List of Papers for Data Extraction

**Figura 19 - Extrair os dados dos estudos**