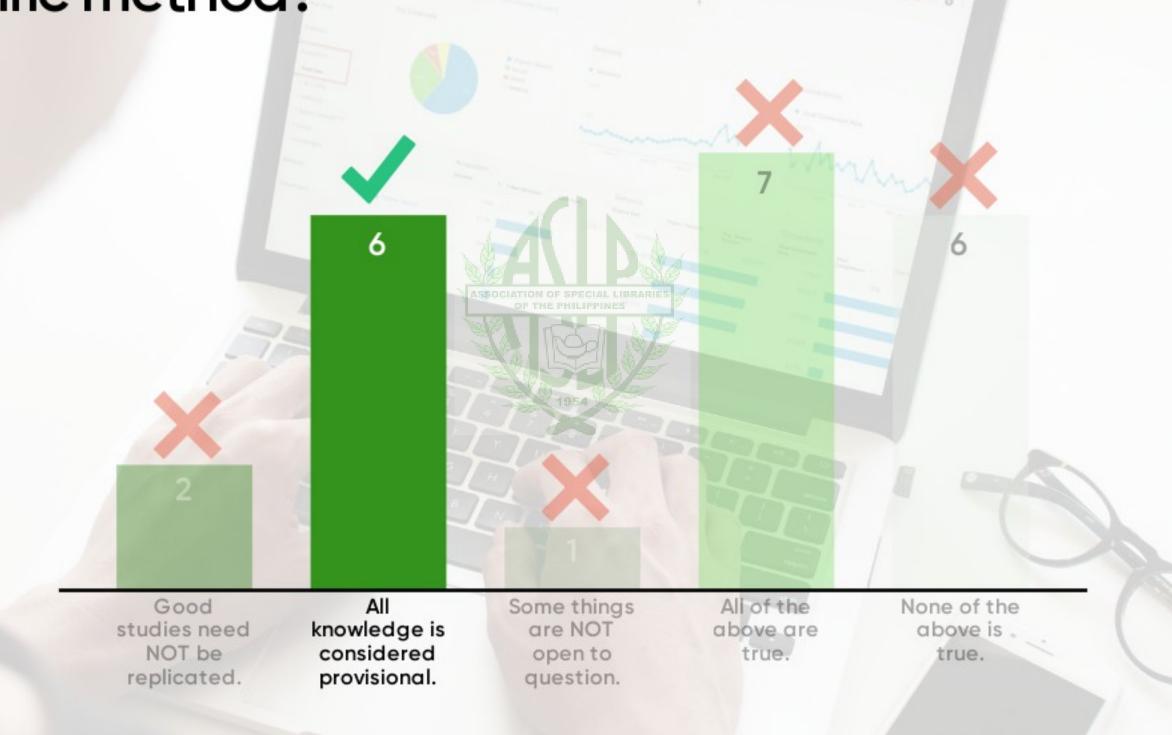


Data Management Services: Collecting, Organizing, and Curating Datasets and Raw Data

Asst. Prof. Dan Anthony Dorado **UP School of Library and Information Studies** Bolstering Research: The Role of Librarian and Information Professionals in the Ideation, Use, and Preservation of Outstanding Research 22-24 May 2016 | Bohol, Philippines

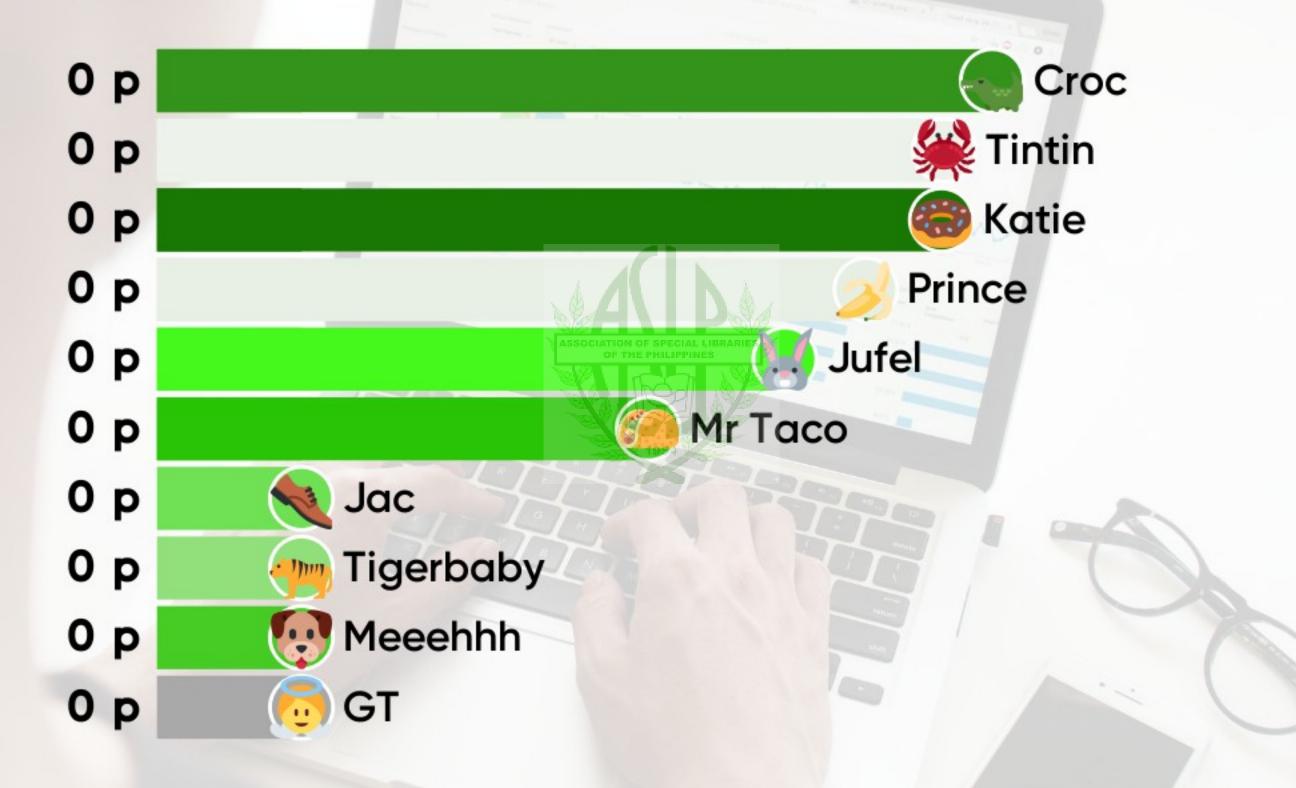
Which of the following statements is are true about the scientific method?





Leaderboard





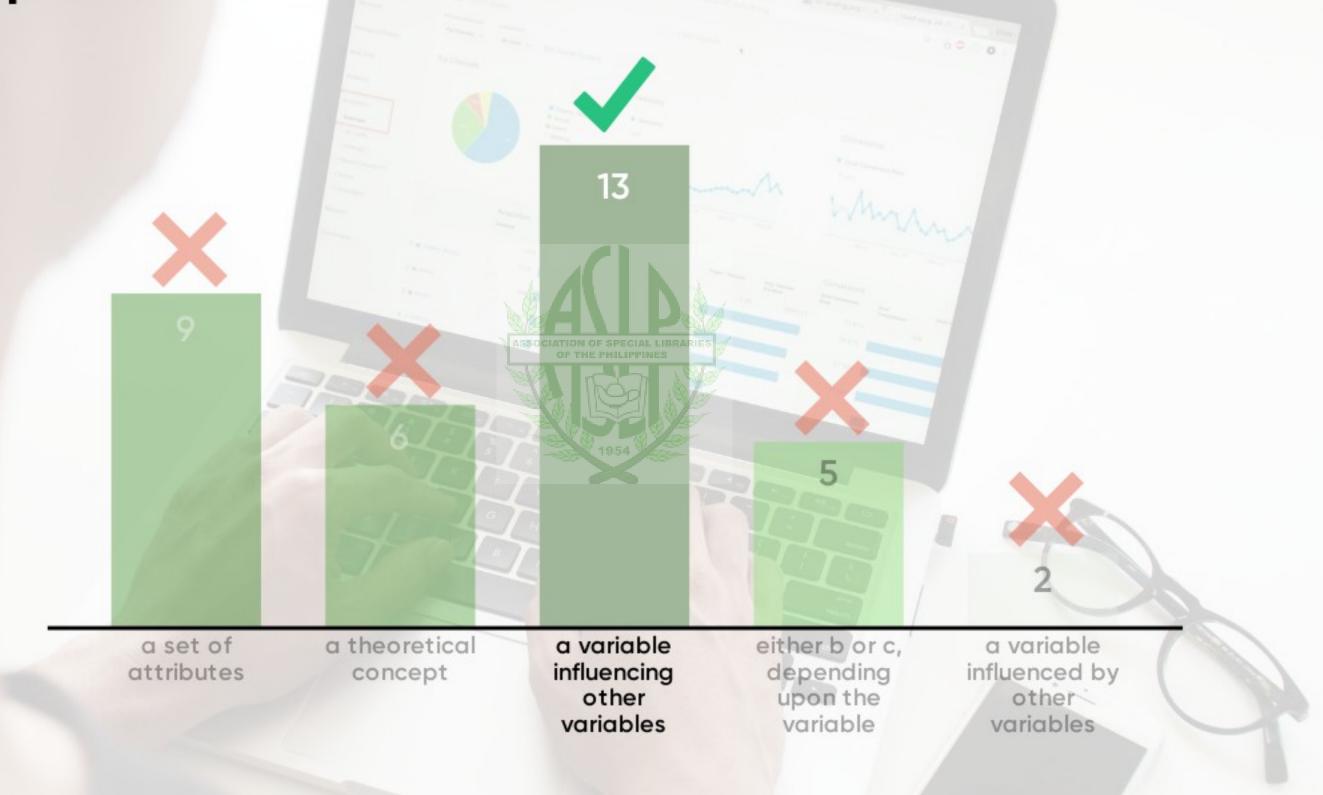
A frame of reference for interpreting the world is referred to as a





An independent variable is





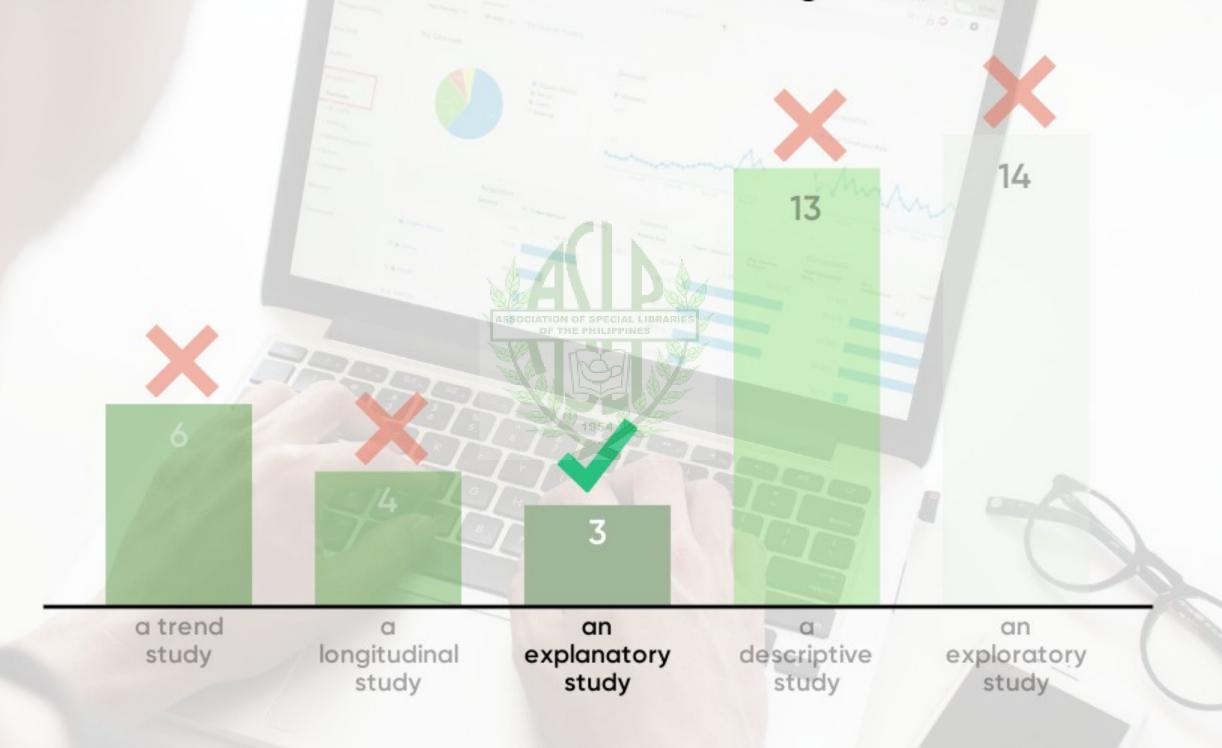


Descriptive studies do NOT tell why study Descriptive use use something relationships studies DO operational concepts all of these definitions occurred between variables



If a researcher wanted to test the hypothesis that female social workers are more empathic than male social workers, the researcher would design:







Leaderboard







Data Management Services: Collecting, Organizing, and Curating Datasets and Raw Data

Asst. Prof. Dan Anthony Dorado **UP School of Library and Information Studies** Bolstering Research: The Role of Librarian and Information Professionals in the Ideation, Use, and Preservation of Outstanding Research 22-24 May 2016 | Bohol, Philippines





Agenda

- overview of data management services
- benefits in the promotion and use of research
- different frameworks and approaches



Digital Curation Centre

- internationally-recognised centre of expertise in digital curation
- "good research needs good data"
- http://www.dcc.ac.uk













Research Data

- Data sets: Observational, computational, simulated, or otherwise recorded output
- Digital collections: A grouping of digital objects, such as a photo archive or a vast text-based library of digitized books, can be interpreted as set
- Learning objects: Videos, digital online tutorials
- Multimedia: Recordings of film, music, and performance art
- Software: Applications including the code and documentation files

Philippine Librarian Census 2018

UP School of Library and Information Studies

http://upslis.info/librariancensus/results/





Repository

A repository (also referred to as a data repository or digital data repository) is a searchable and queryable interfacing entity that is able to store, manage, maintain and curate Data/Digital Objects. A repository is a managed location (destination, directory or 'bucket') where digital data objects are registered, permanently stored, made accessible and retrievable, and curated.



Do you have an Institutional Repository?





What is Research Data Management?



Management

depositoy of all data as one

Management

Management and administration of raw research data

Organization and management of reseearch data

Oraginizing of research data

Management of data compiled

Organizing

Organizing and preservation

What is Research Data Management?



Repository

Managing research raw data

Storing, archiving data sets whilst making it accesible

It is managing the research data

Organization of data

Collection of information organized in a library

organization, storage, preservation, and sharing of data collected

Research purposes to discover and learn about data management.

Refers to on how to manage your research data

What is Research Data Management?



Practices and activities related to organizing your research data

Set of standarss for storing organizinh and making available data from research studies

Access

for easy retrieval





Why manage research data?

- Enable Reuse
- Research Integrity
- Research Impact
- Regulatory Requirements
- Controlling Cost
- Maximizing Value









Who are the main actors?

- Researchers
- Other data creators
- Other (re)users
- Funding bodies
- Data centers
- Computer Science Research
- Libraries / Archivist / Record managers







Requirements

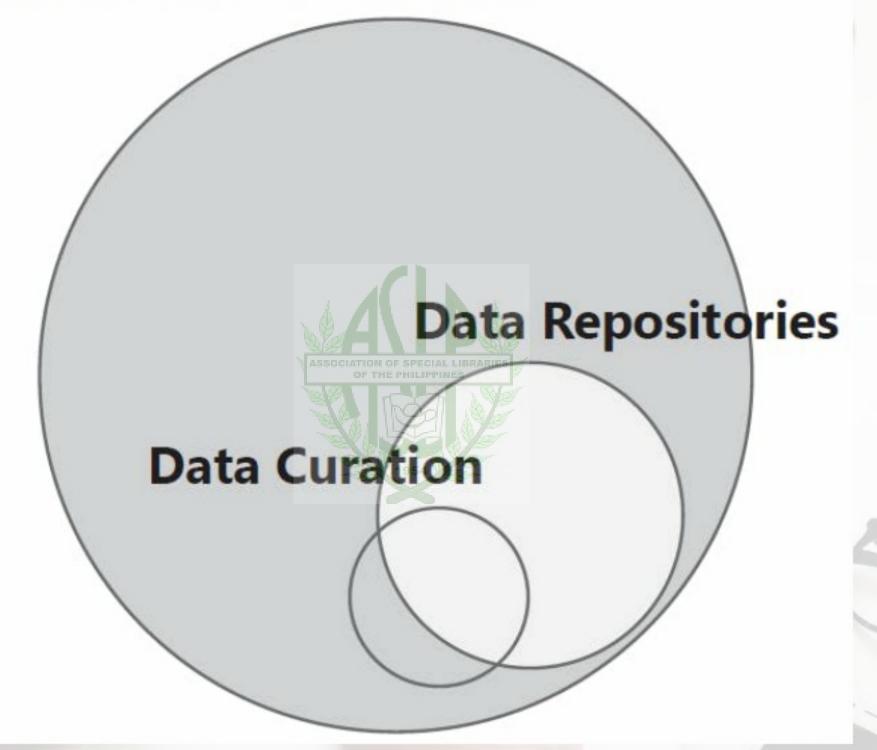
- Technical Infrastructure
- Policy and Commitment
- Human Infrastructure





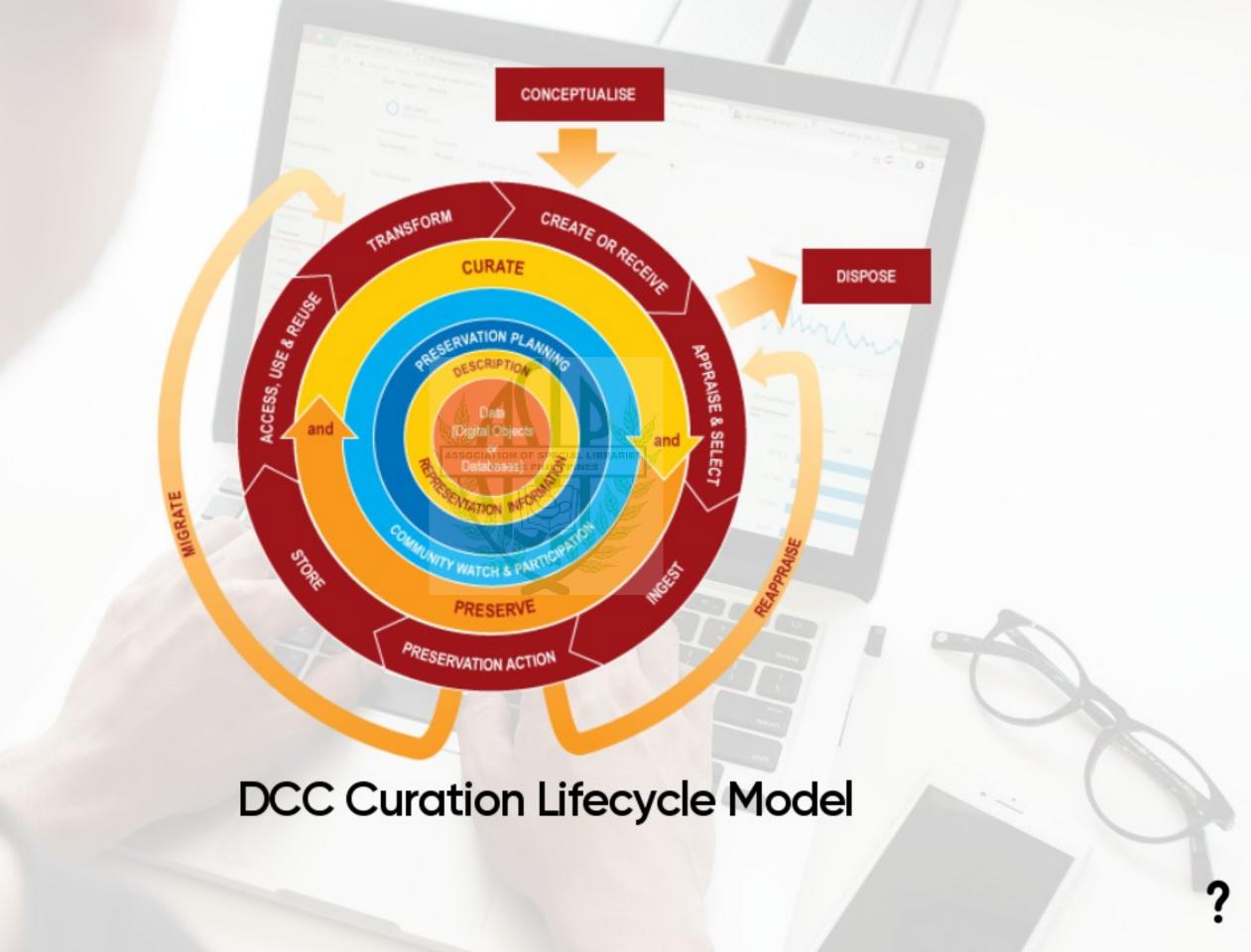
Research Data Services

















(e)-Research Life Cycle view of Data Curation?



(New) knowledge extraction: data mining, modelling, analysis, synthesis

Formulate hypothesis / ideas, test, experiment, observe: data creation, Data processing collection & capture

Data processing

Adding value: Data linking, annotation, visualisation, simulation

Data processing

Data processing e-Infrastructure Open access Collaboration Data processing

Data management storage & validation: description, deposit, self-archiving, preservation, certification

Scholarly communications: data disclosure, publication, citation, discovery, re-use



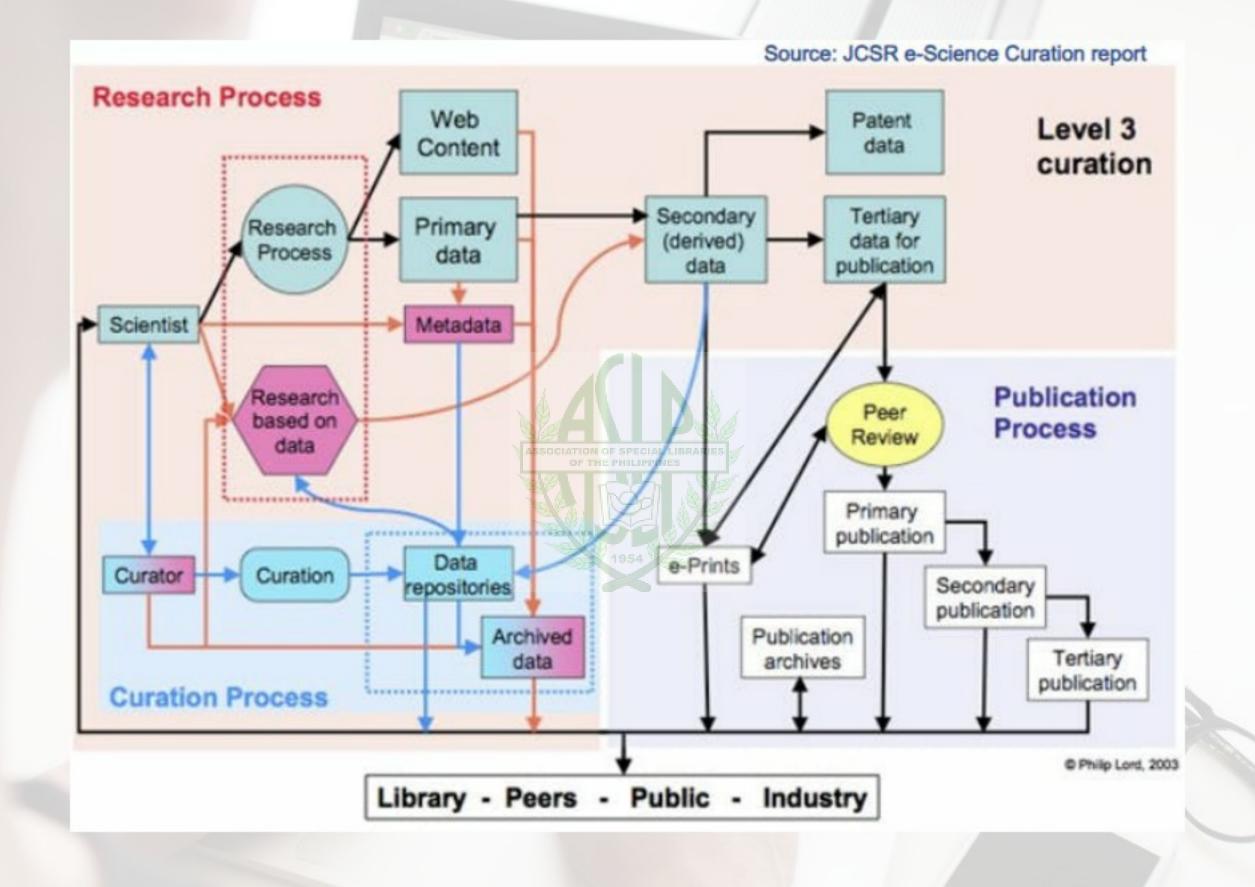
This work is licensed under a Creative Commons License Attribution-Share Alike 2.0

Data Curation

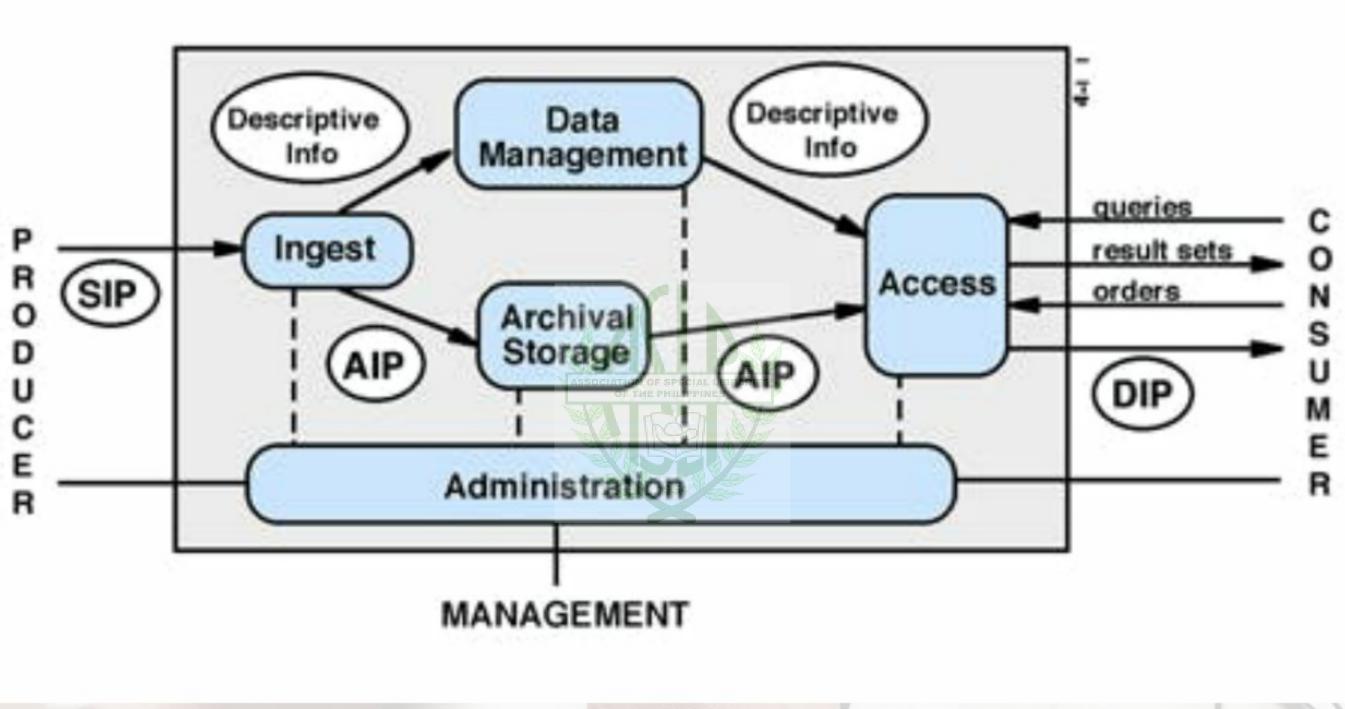










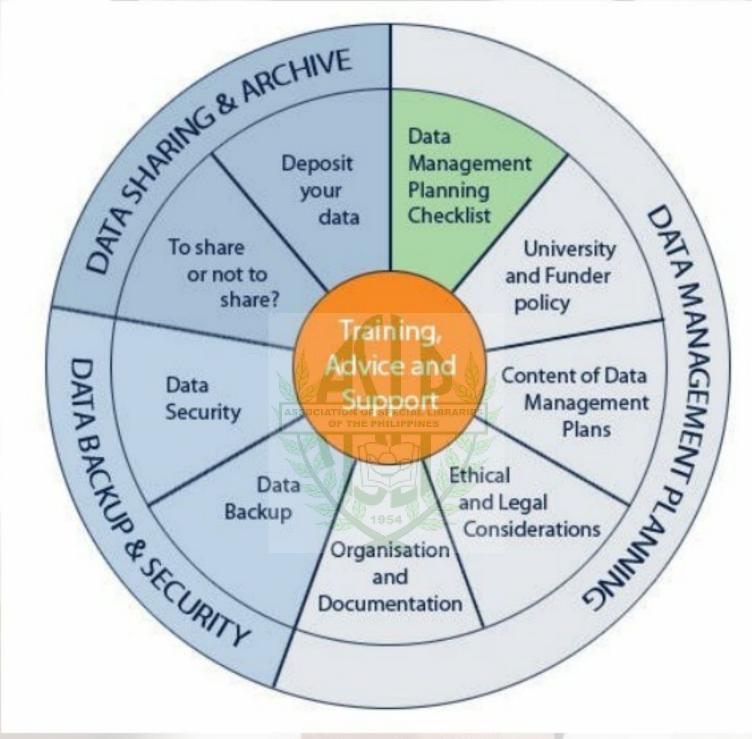






















Role of the library

- Leadership coordination
- Audit
- Advice on access
- Preservation
- Promoting Data in Teaching
- Identifying Skills Gaps









Skill gaps of subject librarians (RLUK, 2012)

- Preserving research outputs
- Data management and curation
- Data mining and manipulation
- Metadata and Metadata Schema







Elaine Martin, Rong Tang, and Sanda Erdelez









Research Data Management LIBRARIAN ACADEMY



https://rdmla.github.io/home/









What is RDMLA

- An online educational program offering individuals to learn about research data management practices
- Developed by a team of librarians who have expertise with RDM
- The Academy offers 8 units which can be taken individually or by group
- All units will be hosted online via the Canvas platform under CC-BY non commercial licensing





















Partner Institutions

- Harvard
- Simmons
- Boston
- Brown
- · MCPHS
- Northeastern
- Tufts
- Elsevier





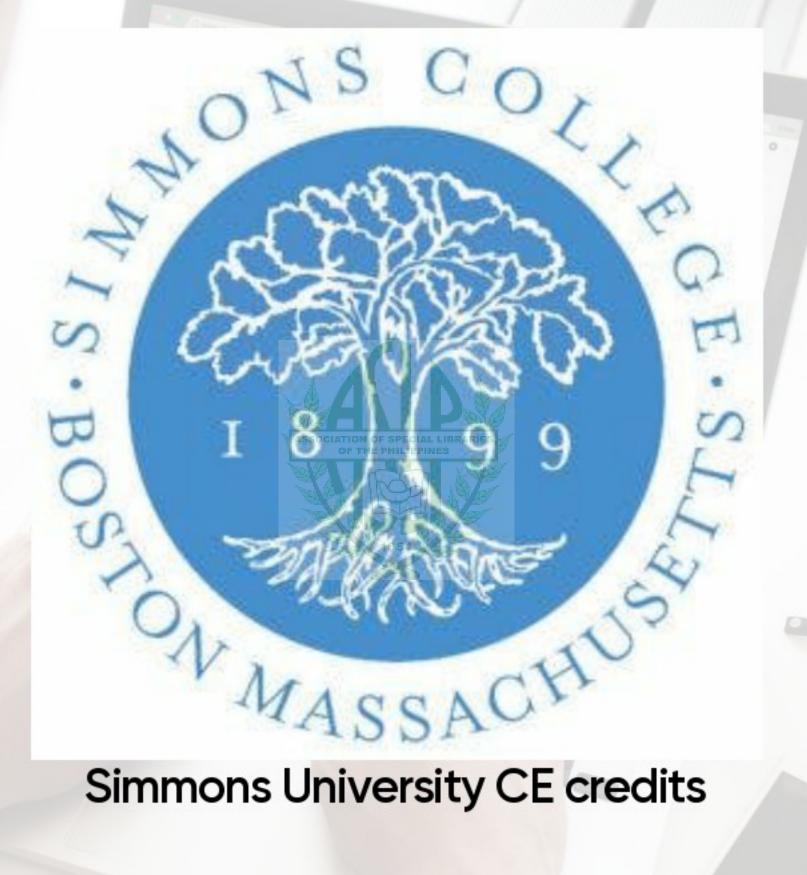
RDMLA Curriculum

- Foundations of RDM
- Navigating Research Data Culture
- Advocating and Marketing the Value of RDM in Libraries
- Launching Data Services in Libraries
- Project management and Assessment
- Data Analysis and Visualization
- Coding Tools
- Platform Tools













GOVPH

Home

Agencies

Datasets

About

Talk to us



OPEN DATA PHILIPPINES

search

Philippine Standard Time Thursday, May 23, 2019, 12:56:41 PM

Open Data for Filipinos everywhere

Looking for what the government spent on last year? Need statistics on public health services? Search for national government data using GOV.PH/data

Search dataset...



Local data repository: https://data.gov.ph/







Developing a Research Data Management Service

Step 0: Establish Your Data Curation Service



In terms of establishing a service, using one word, describe this picture



Mission impossible?	Focus in one direction
Direction	Running
ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES	
rush	Running
	Direction ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES



In terms of establishing a service, using one word, describe this picture



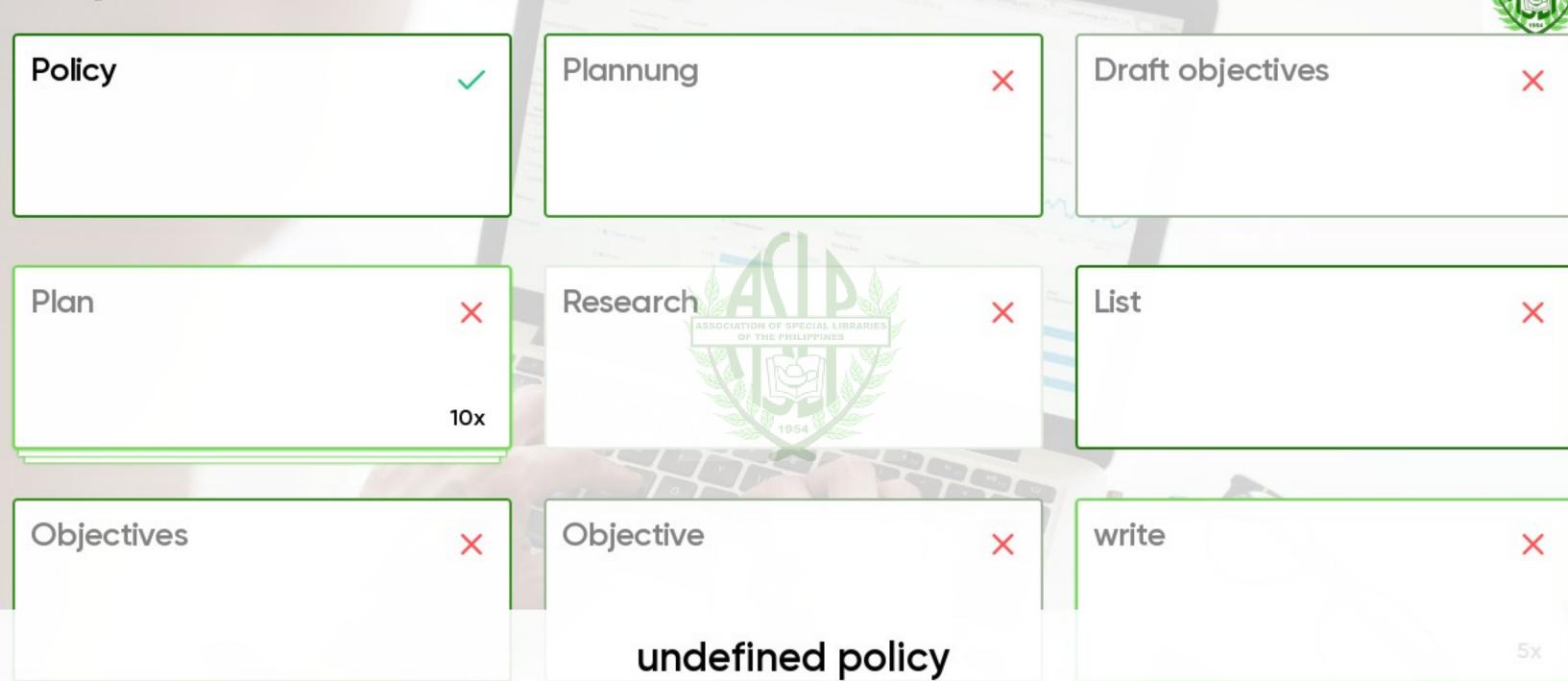
Speed	focus	Perseverance
Never ending	Focus ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES	Goal
Speed	Vision	Mission

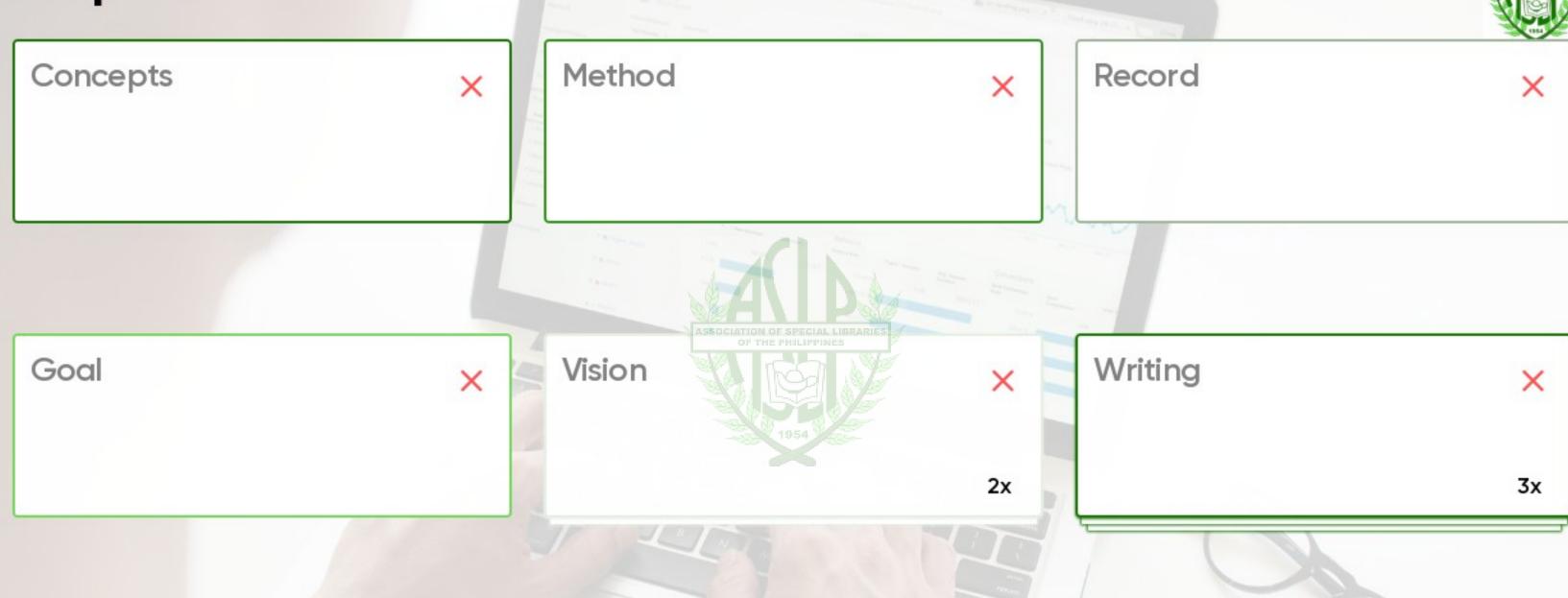


In terms of establishing a service, using one word, describe this picture



Fast continues Running Mission Fgg





undefined policy

Leaderboard





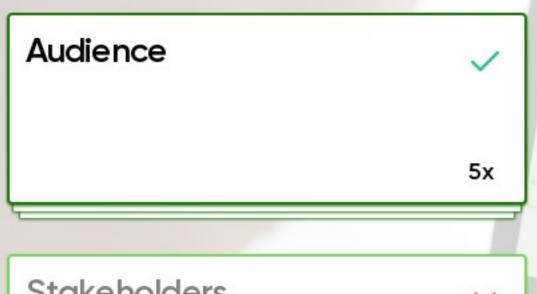


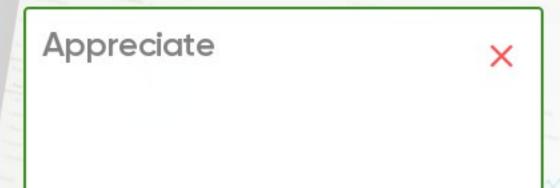


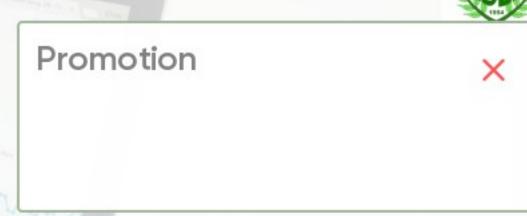
Policies

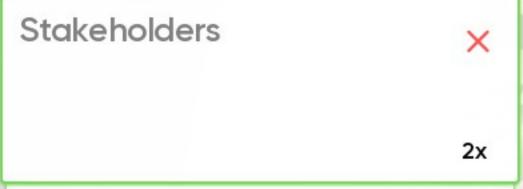






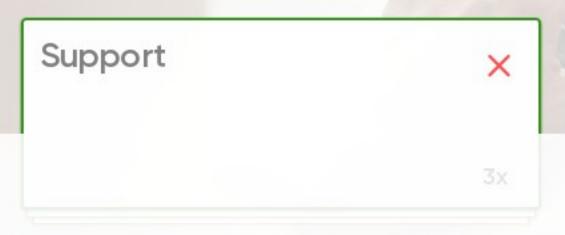


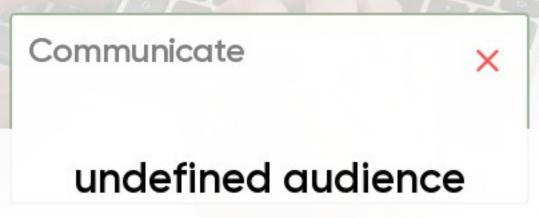














Accepted ×

Performance

Clients

Dessiminate

X

Discuss

Presenting

Approved

×

approval

undefined audience 2x

Dissemination

X

Step 0.3 Observation bob Presentation

undefined audience

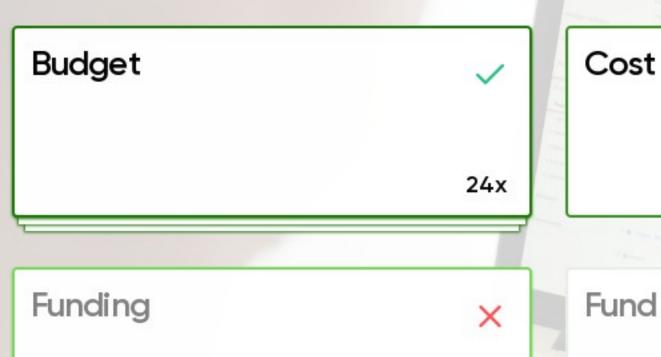








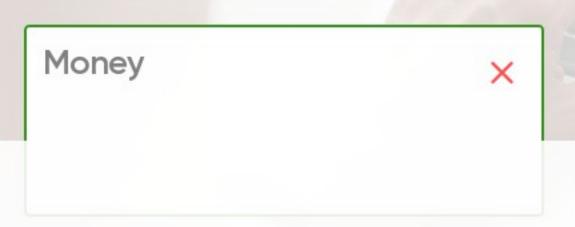








Save



5x





3x

Step 0.4 Savings budget **Funds** invest ×

undefined cost





Cost







ASID ASSOCIATION OF THE PROPERTY ASSOCIATION OF THE PROPER

Staff

3x

Staffing

2x

Personnel

Appreciate

Planning

ASSOCIATION OF SPECIAL LIBRARIES
OF THE PHILIPPINES

4x

Leveling

Manpower

feedback

undefined staff

Deliberate

ASID ASSOCIATION OF THE OWNERS OF THE OWNERS

Support

2x

Coordinate

Presentation

Agenda

People



Decision

propose

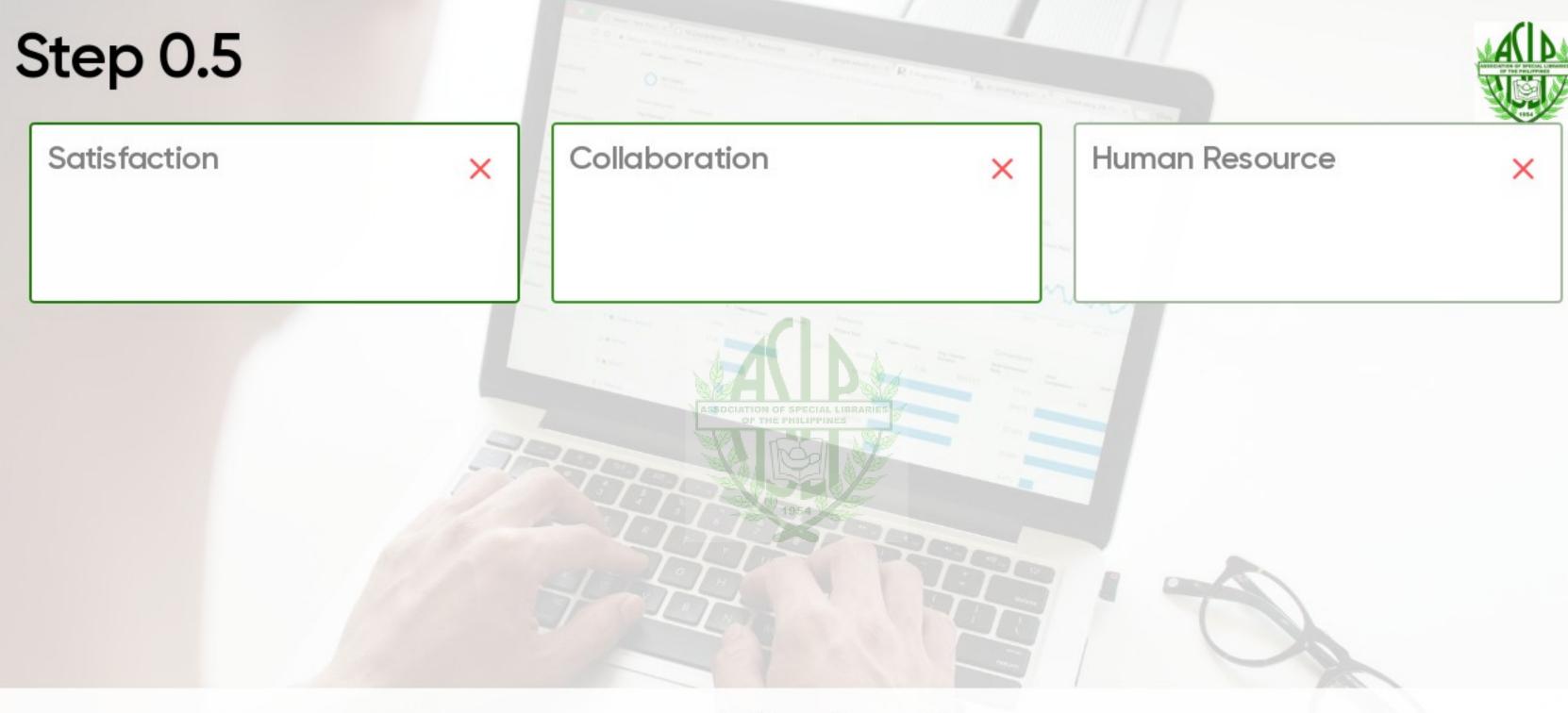
Implementation

undefined staff

Plan

2x









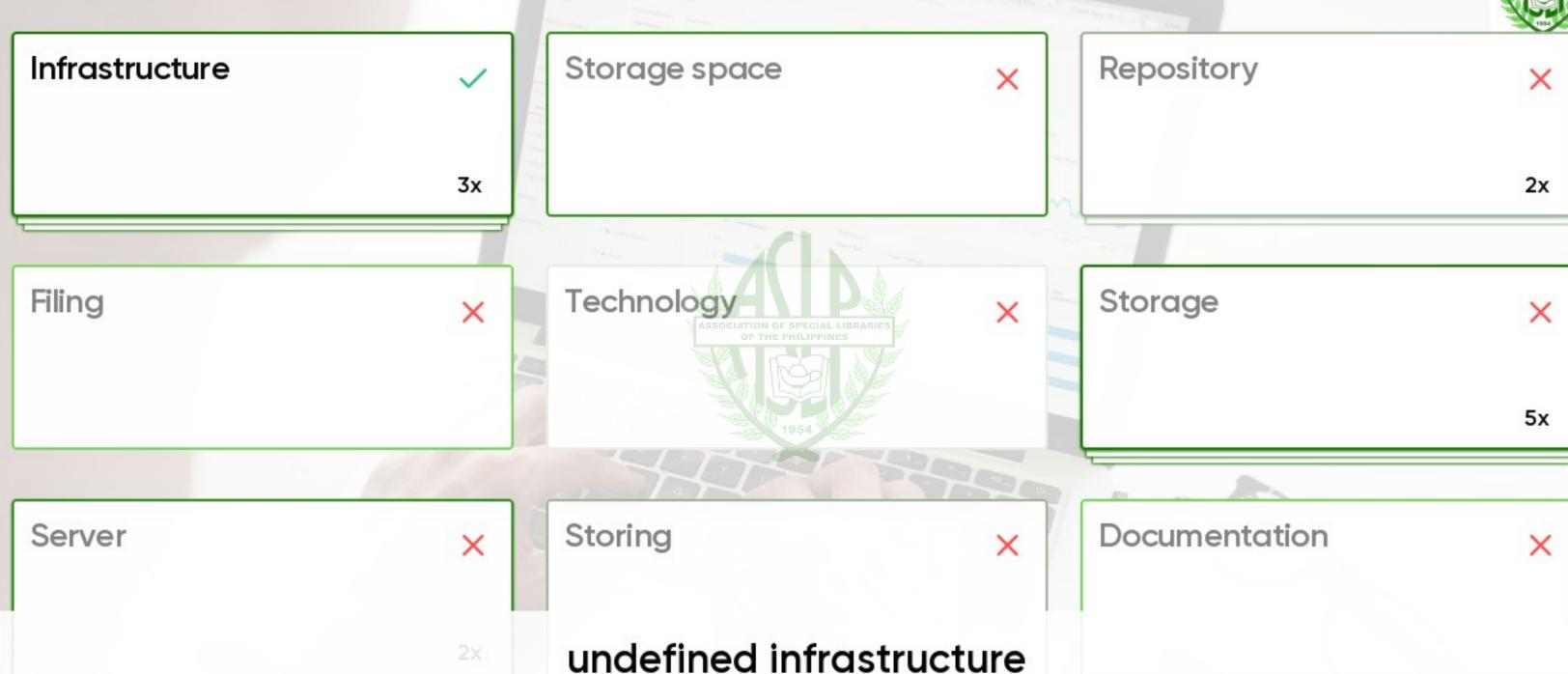


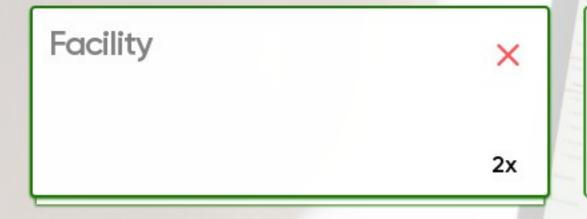




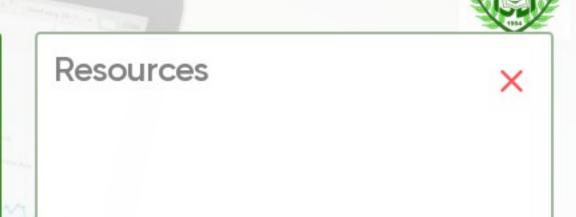


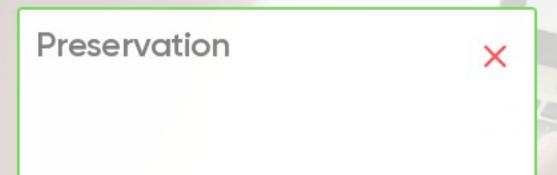
















Network

undefined infrastructure



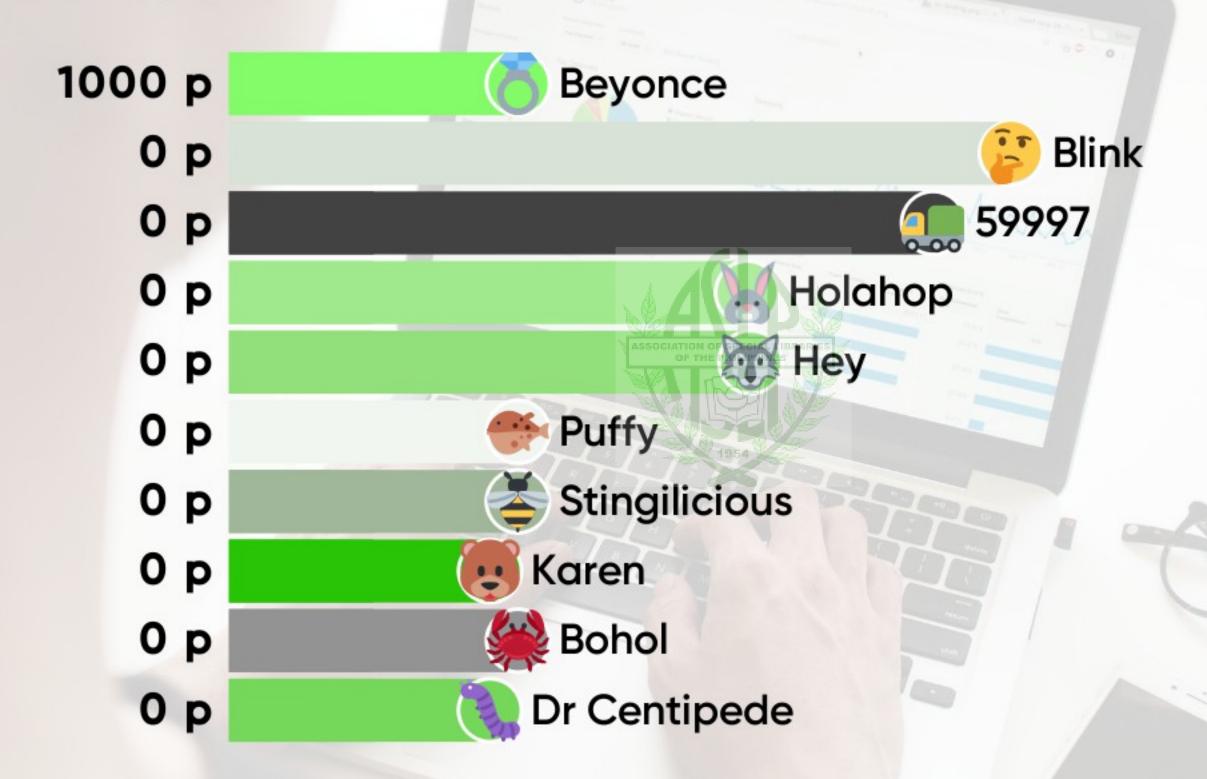


Technological Infrastructure



Leaderboard





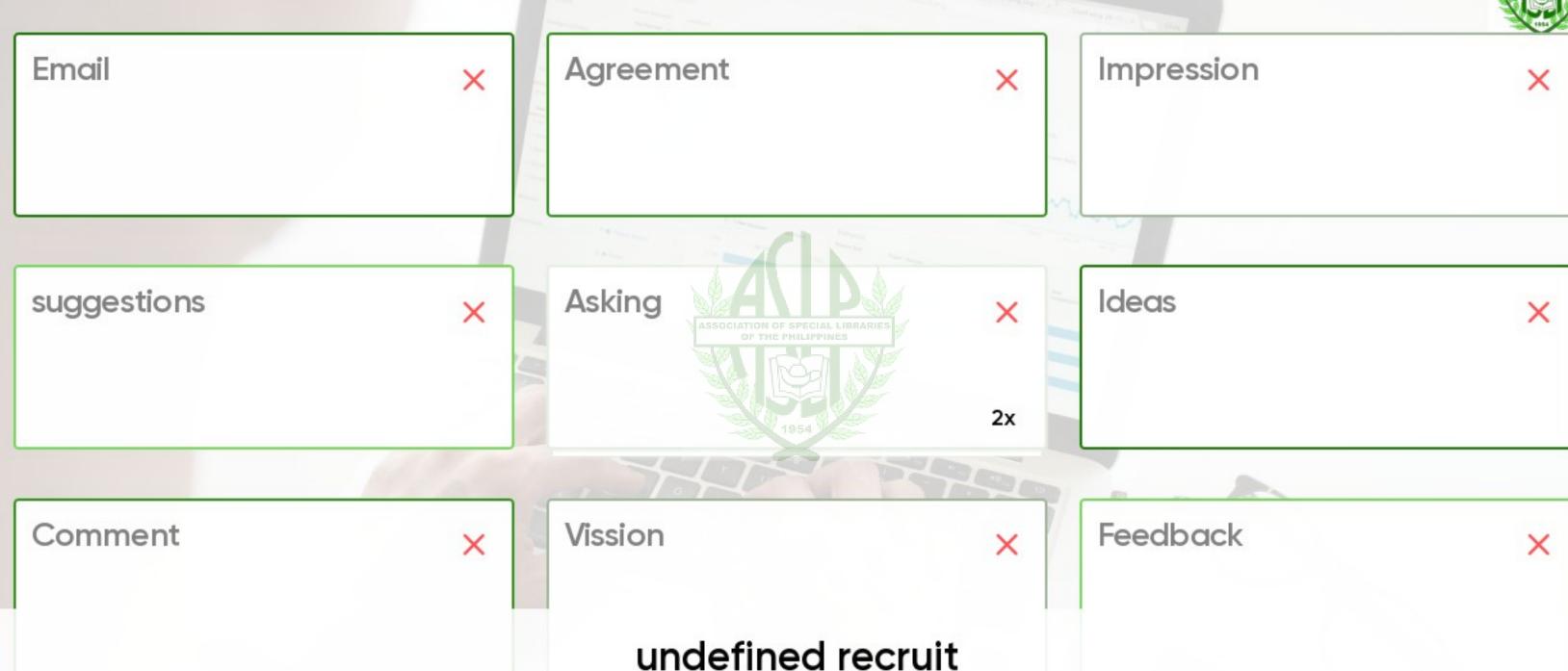


Developing a Research Data Management Service

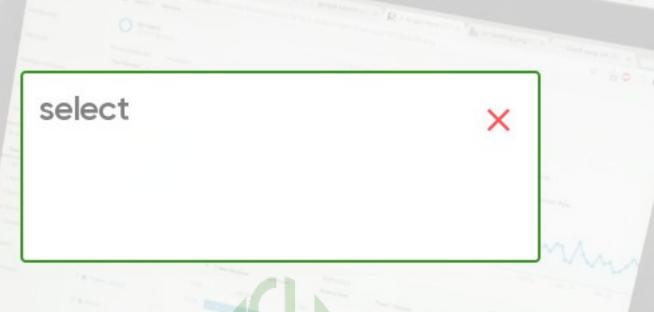
Step 1: Receive the Data













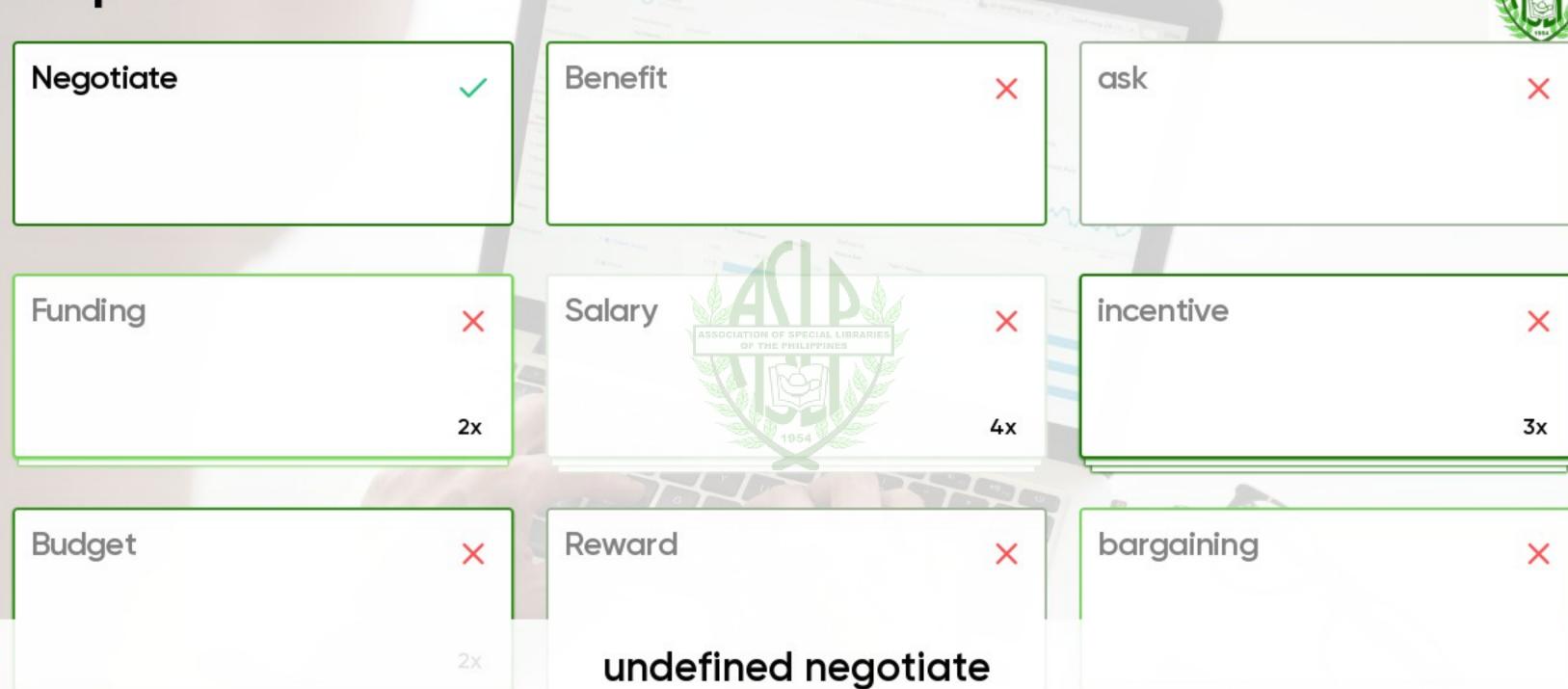


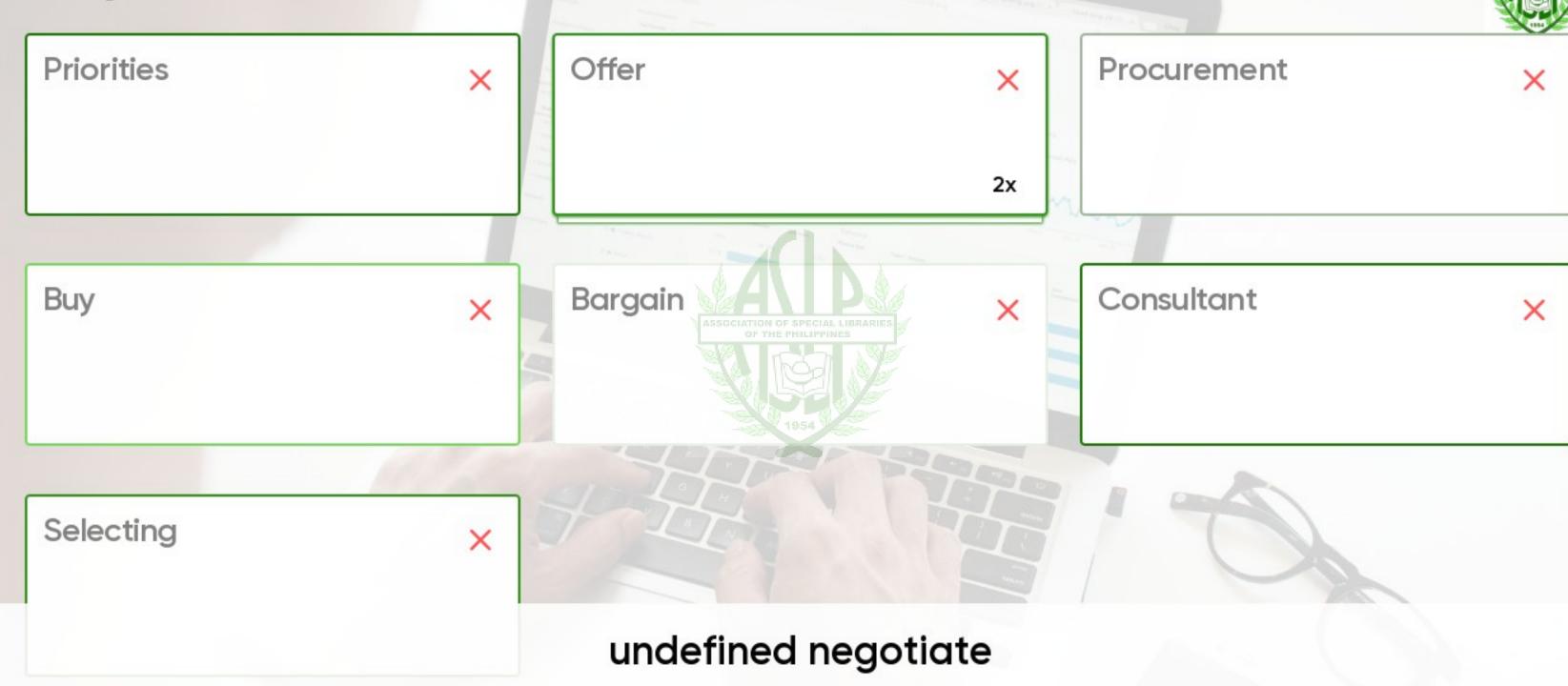












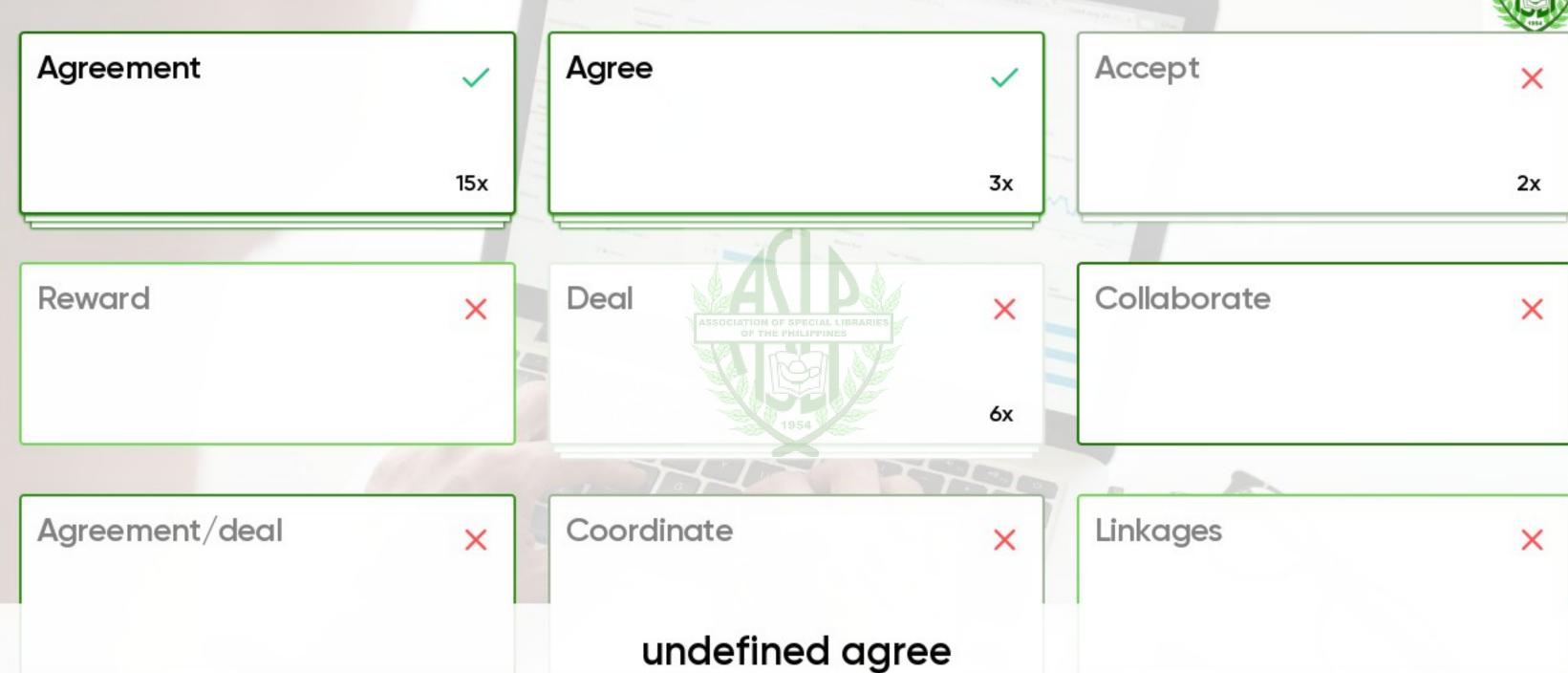












Partnership

acknowledging

Approval





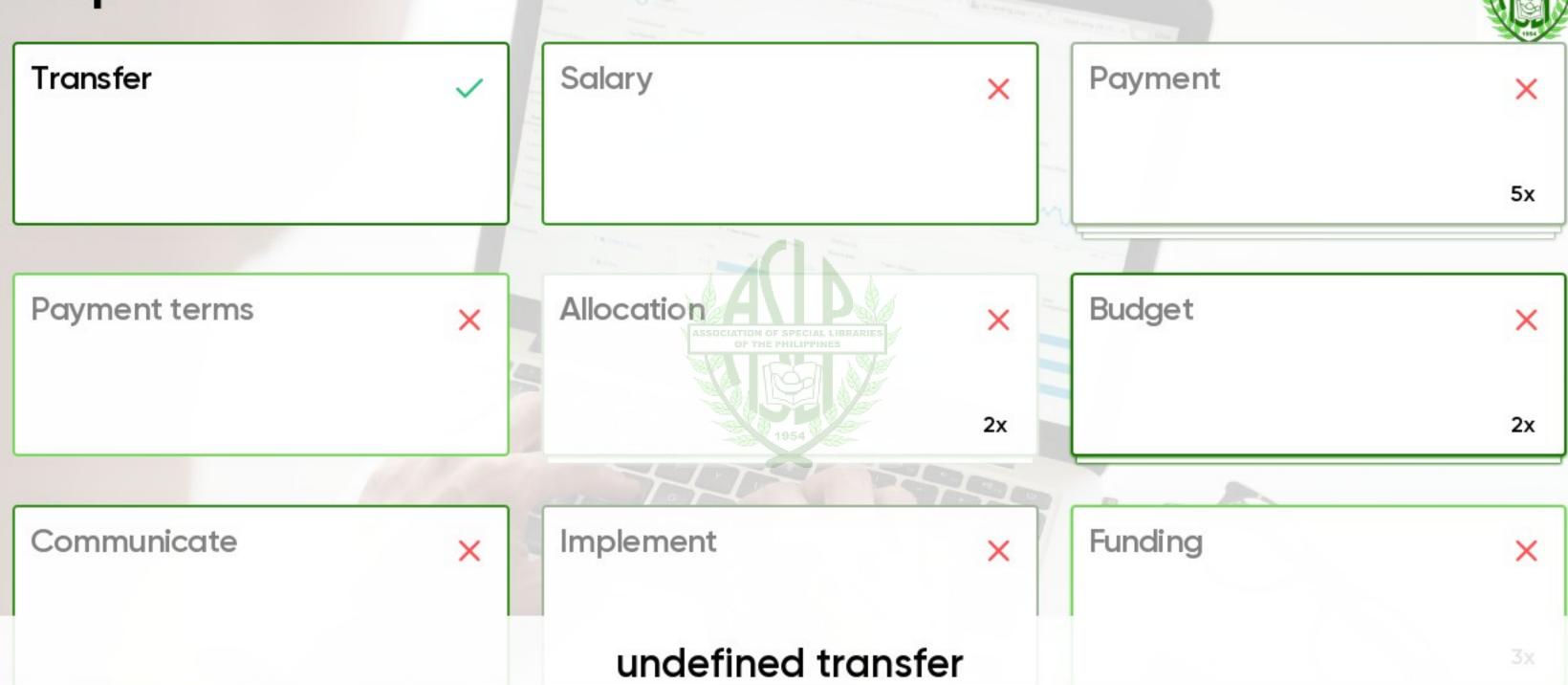




Obtain Author Deposit Agreement



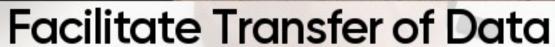




Step 1.4 Allocate Send Cost × X Construction Selling contract ×

undefined transfer

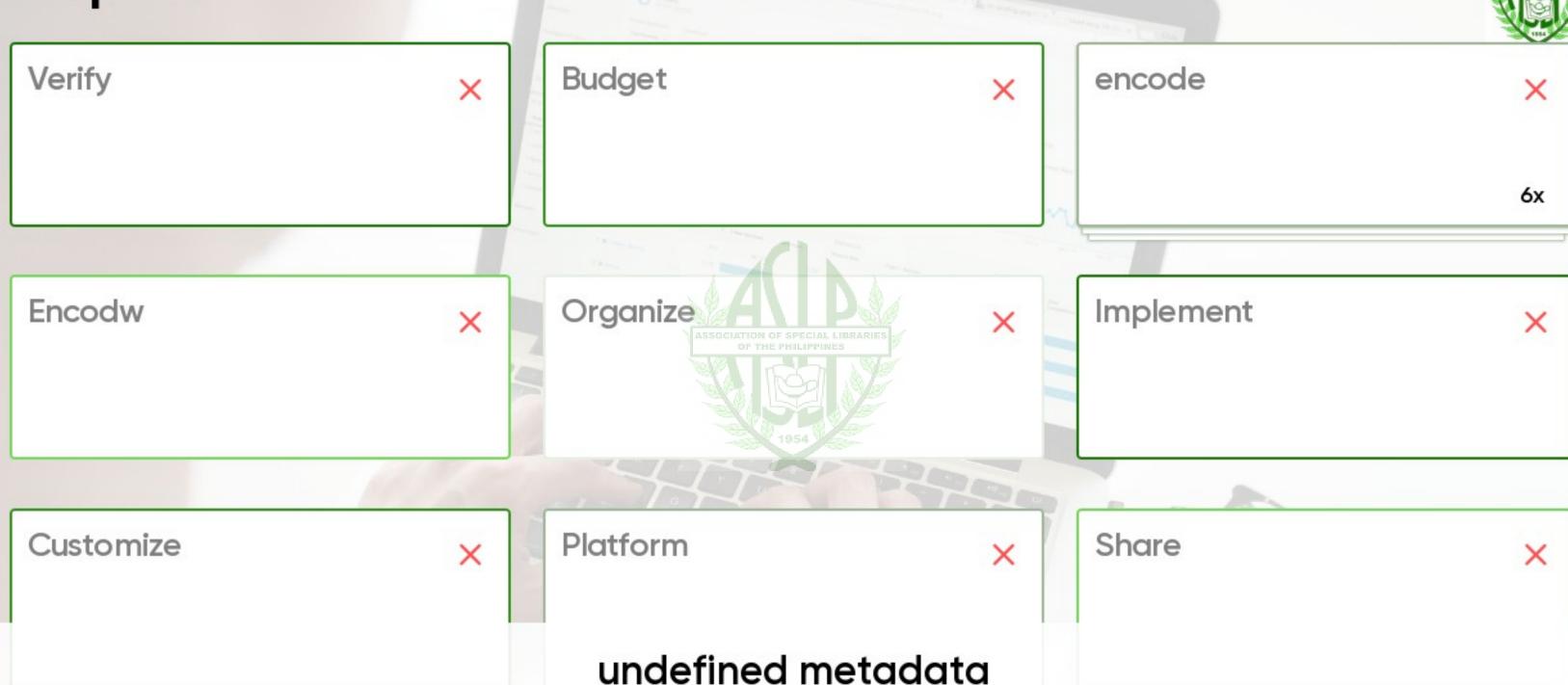








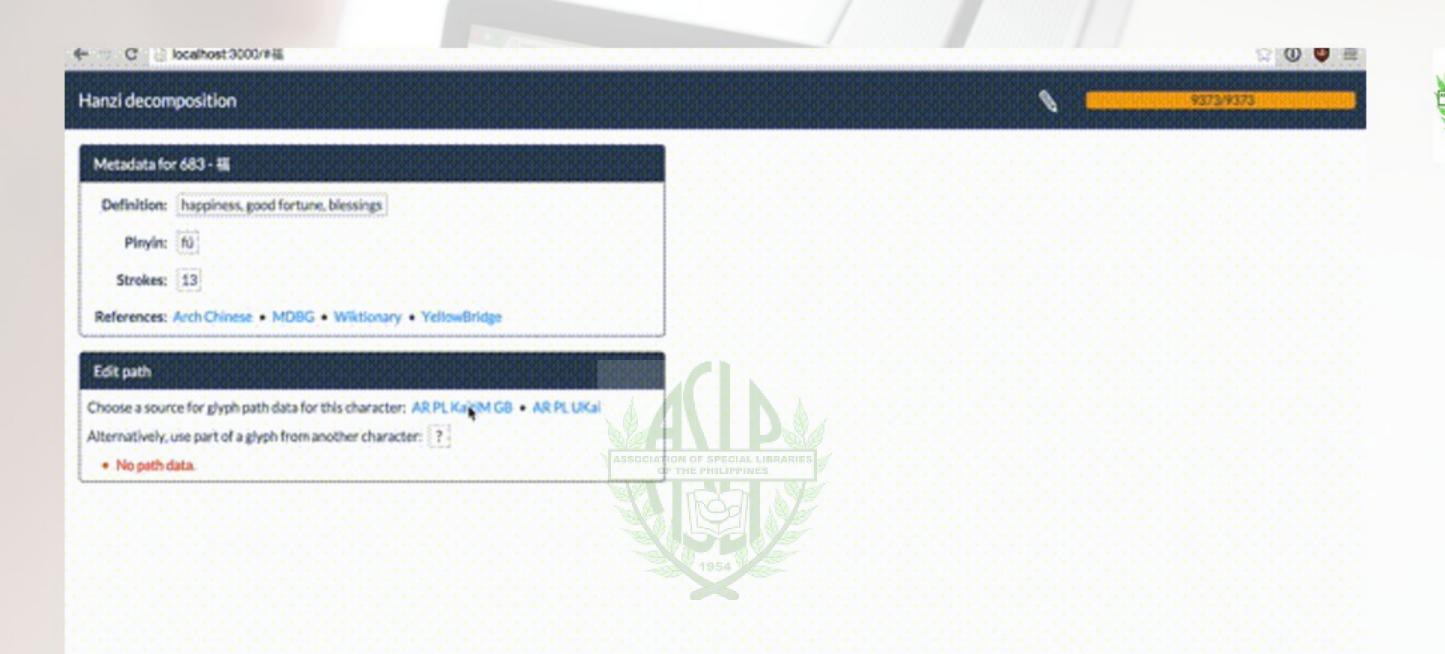
Step 1.5



Step 1.5 **Format** Filling uploading × X 2x describe Translate X

undefined metadata





Obtain Metadata and Documentation







Step 1.6

ASIDO MINICAN LIBRARIA OF THE PROLIFFICIAL

Assign

Search

Promote

Validate

payment

ASSOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES

3x

Dissiminate

Code

Circulate

undefined notify

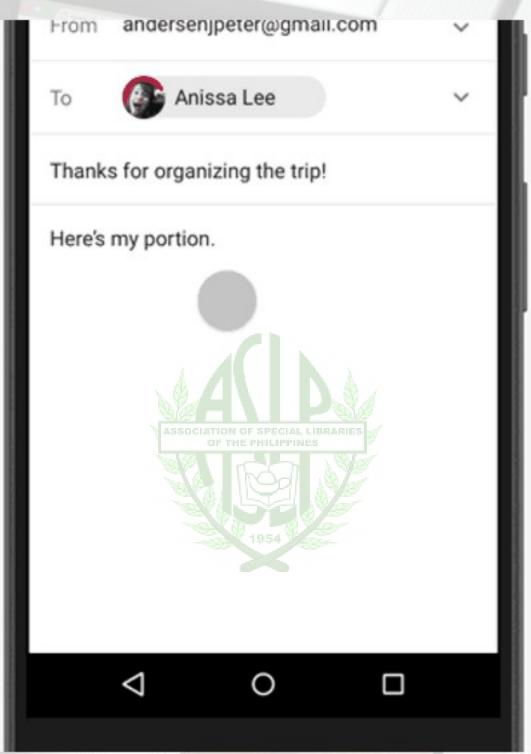
Organize



Step 1.6 Calculate Mail **Process** × Store ×

undefined notify





Receive Notification of Data Arrival







Leaderboard





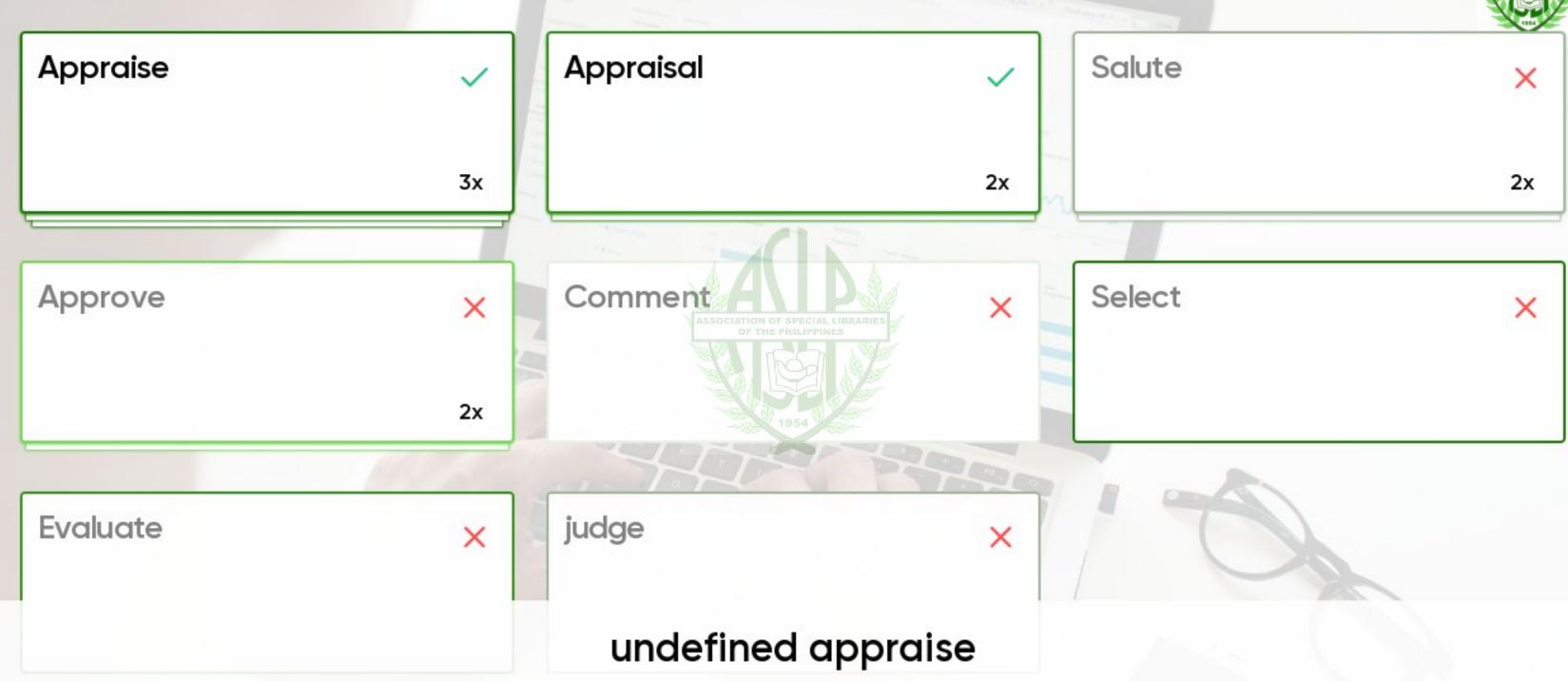


Developing a Research Data Management Service

Step 2: Appraisal and Selection Techniques That Mitigate Risks Inherent to Data







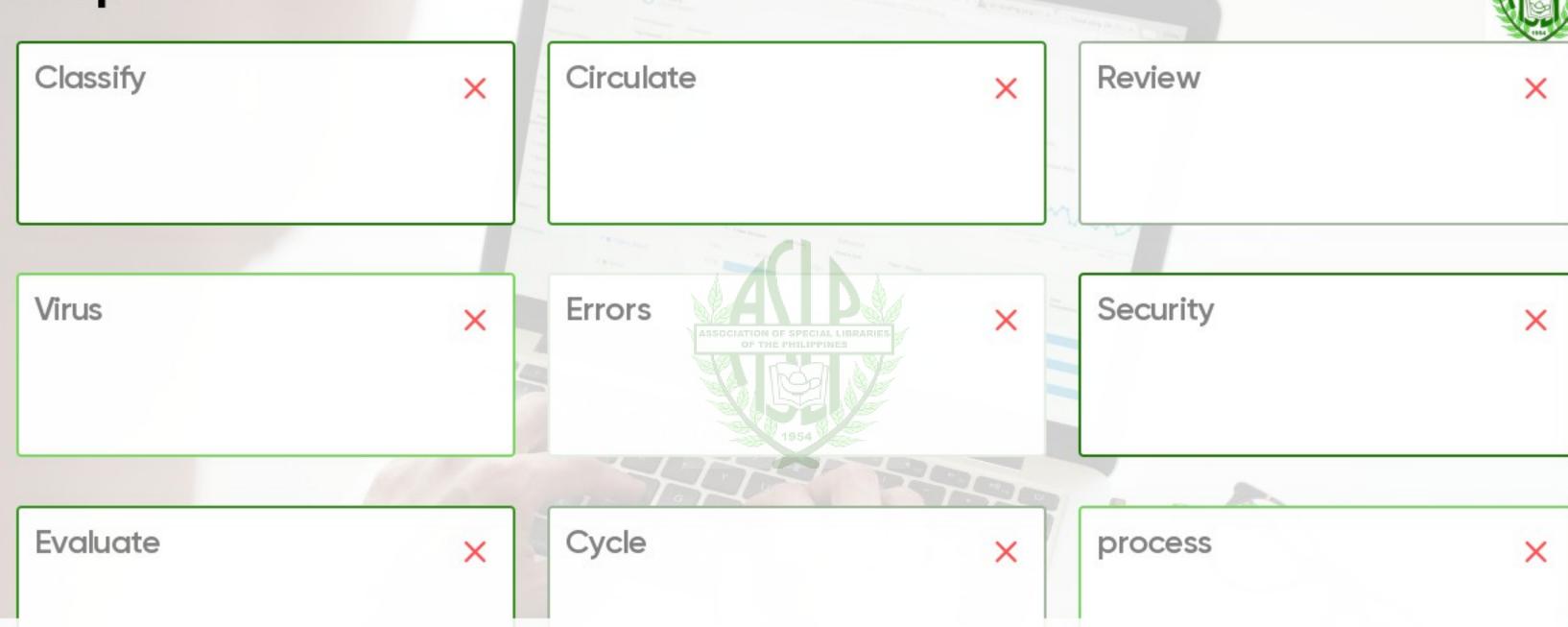


Appraise the Files









undefined risk

Brand

branding

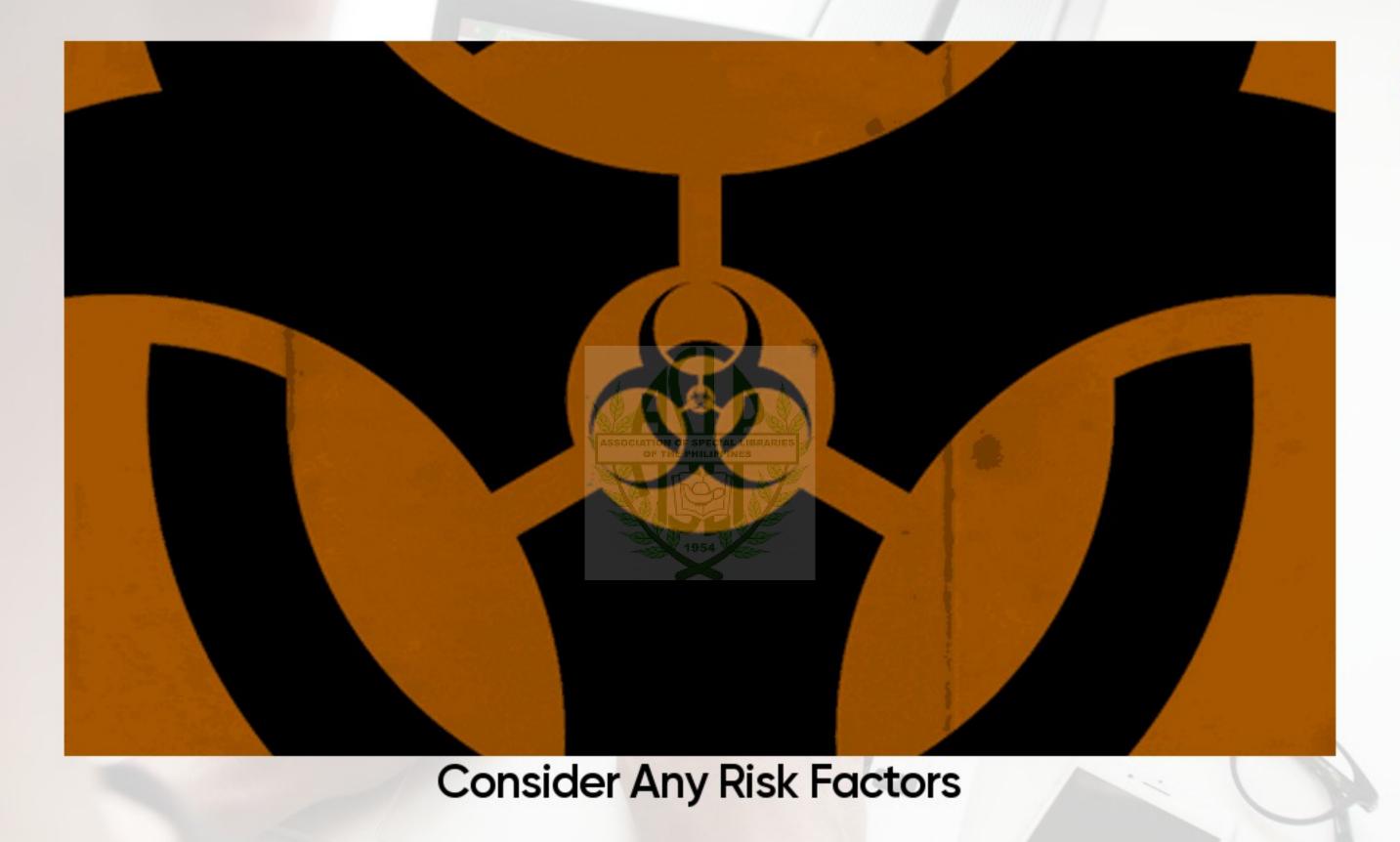
Ask

2x

Explode













ASID ASSOCIATION OF THE OWNERS OF THE OWNERS

Inventory

11x

Classify

Record

Organize

Craft



2x

Mine

Strategic planning

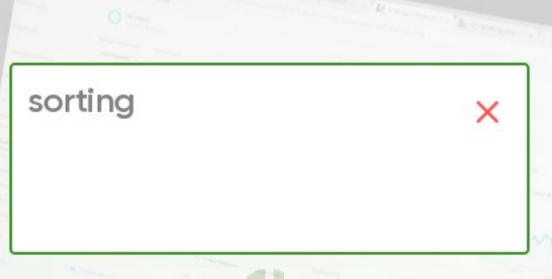
Merge

undefined inventory

Evaluate



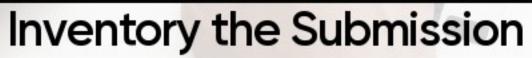


















Step 2.4 Selection Select Selecting 23x 6х





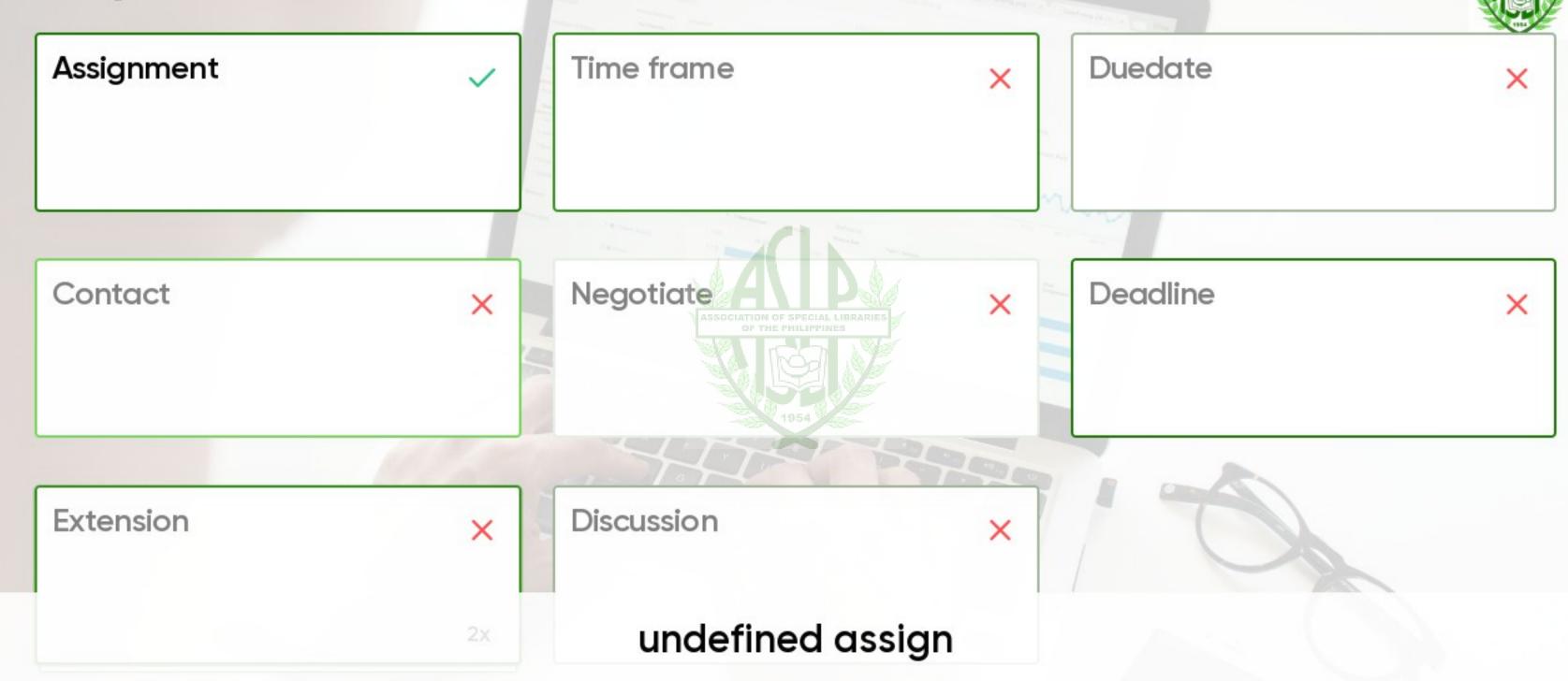






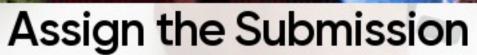












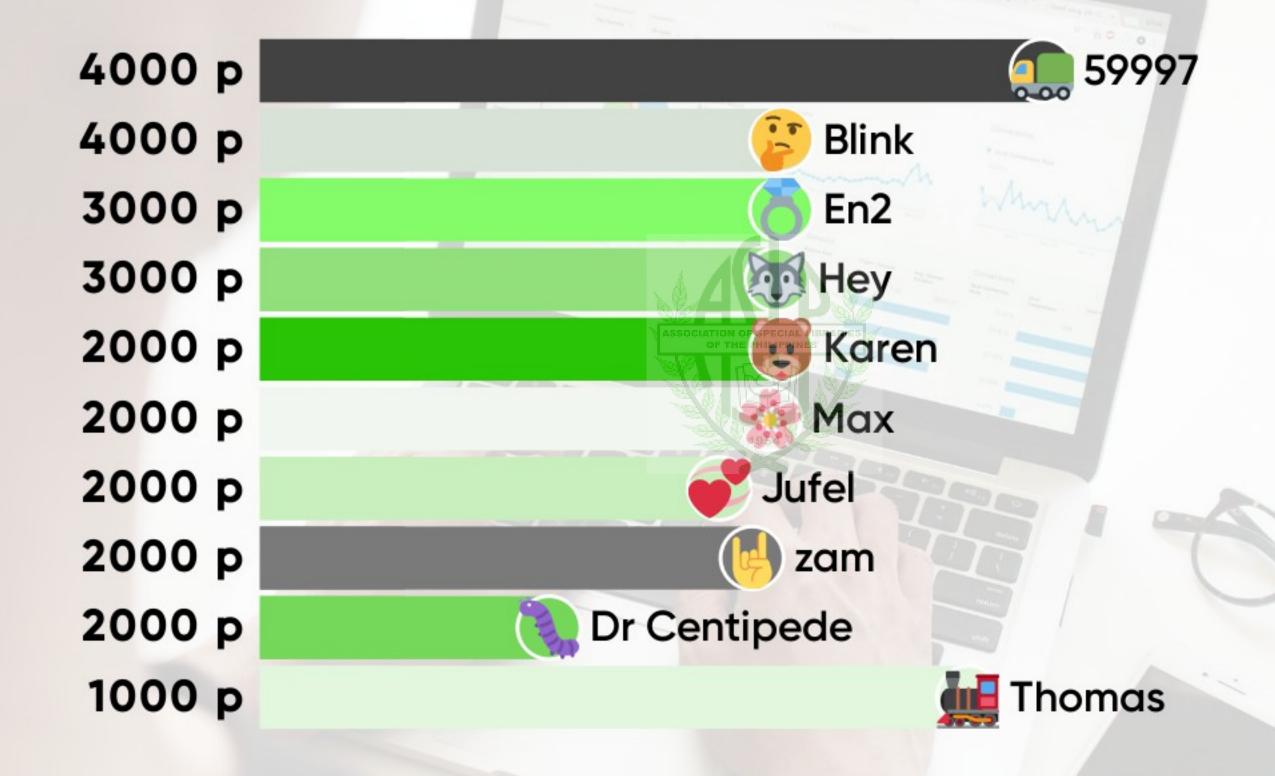






Leaderboard







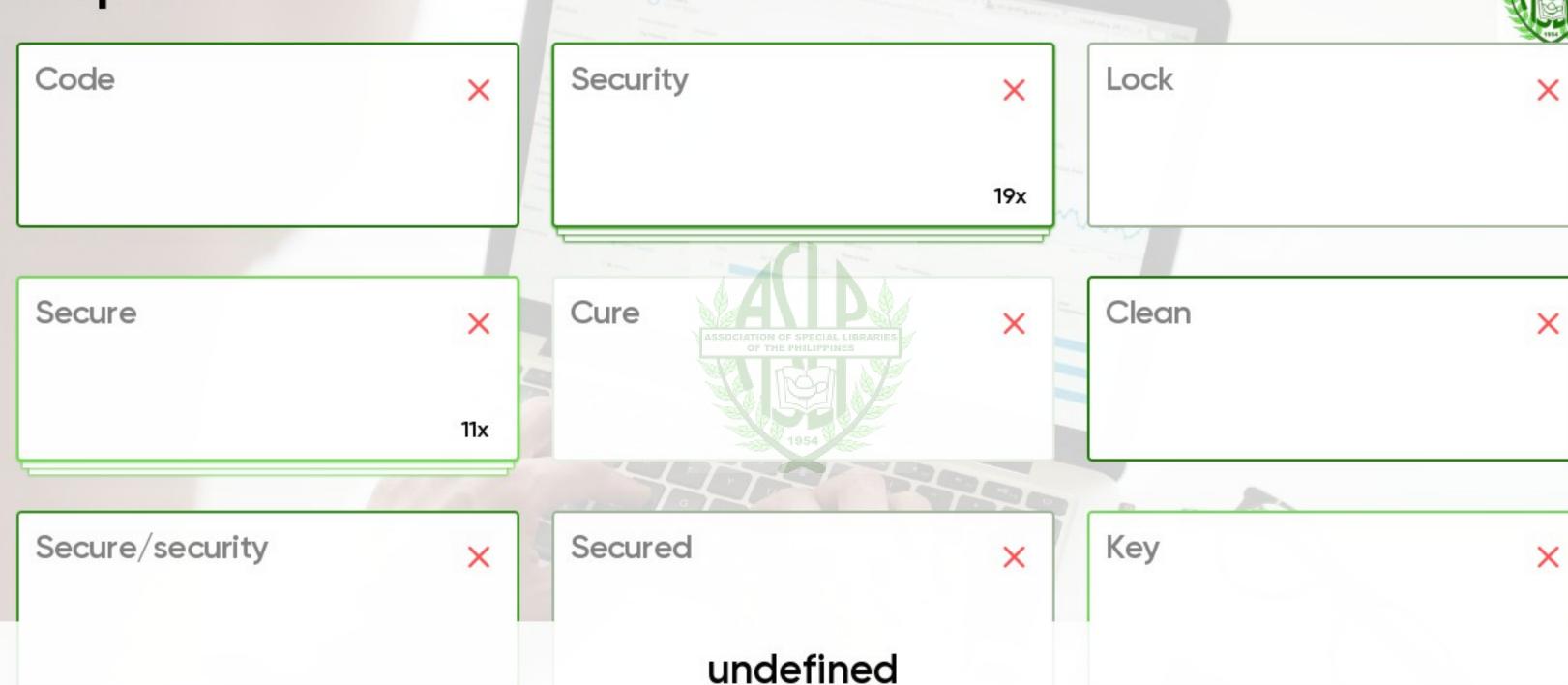


Developing a Research Data Management Service

Step 3: Processing and Treatment Actions for Data













undefined

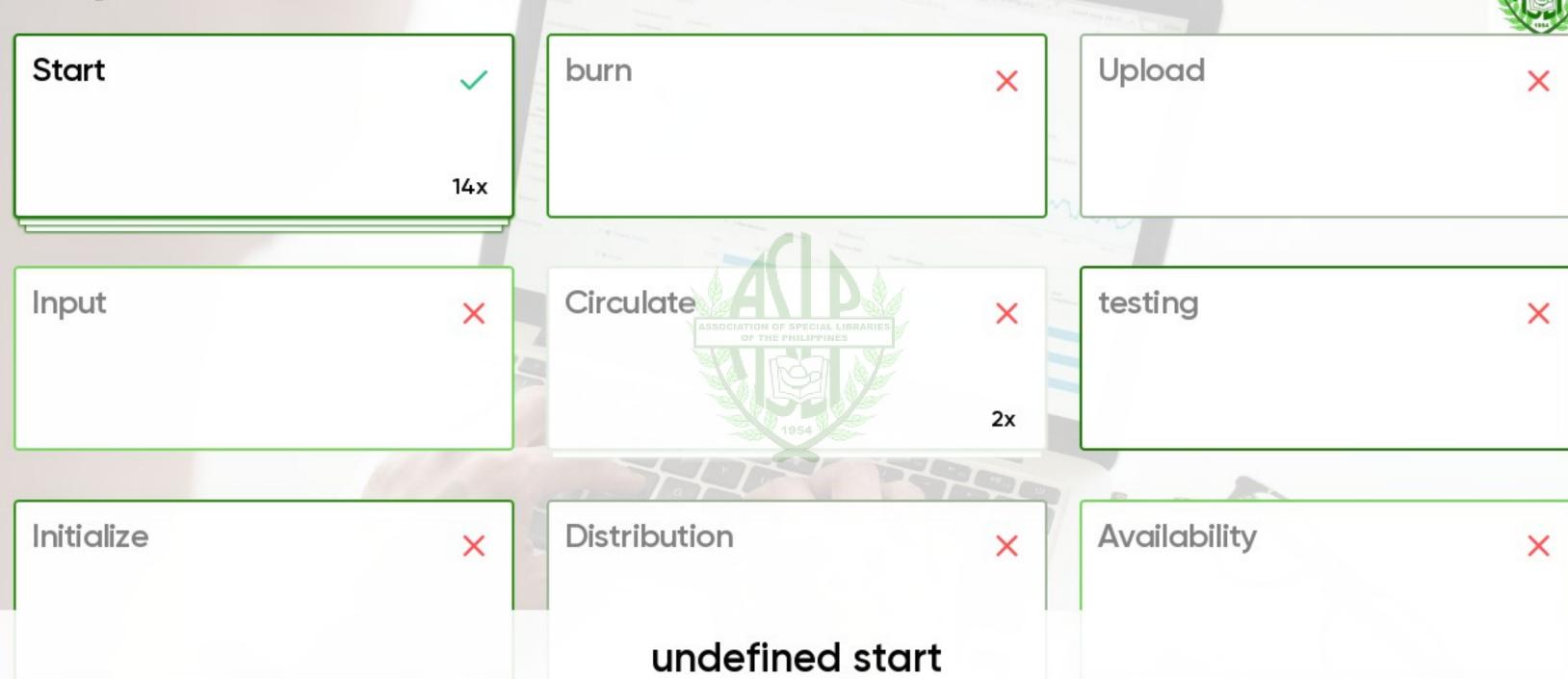


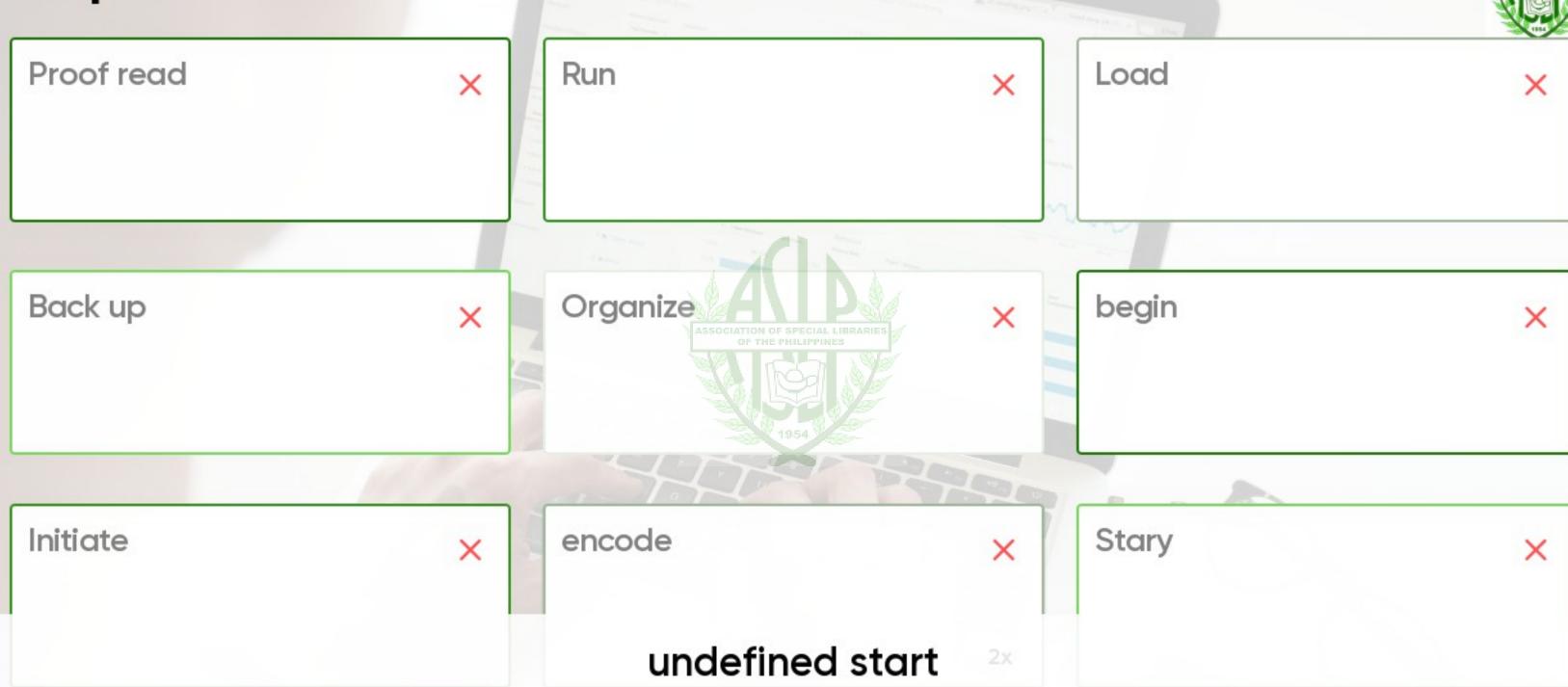






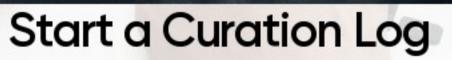






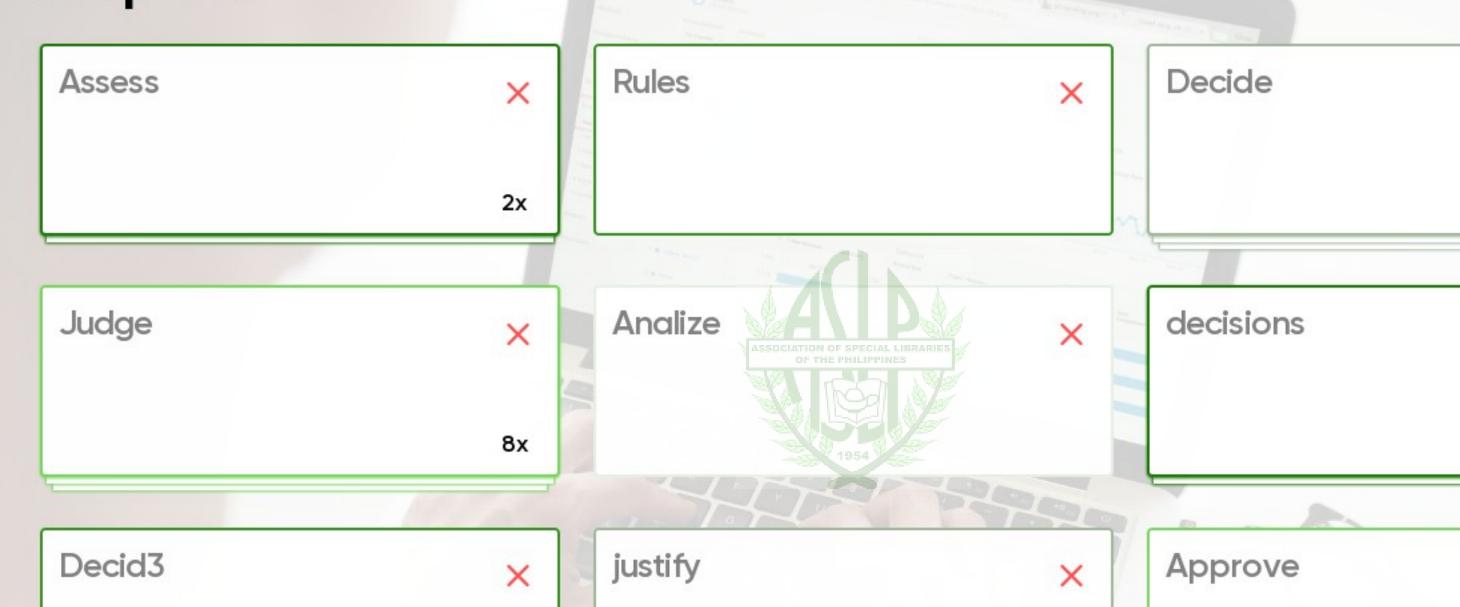












undefined order

X

8x

X

2x

X



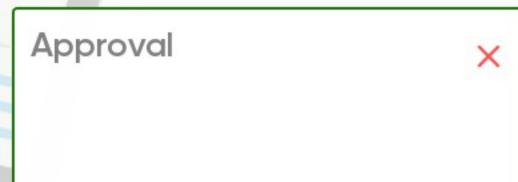








X



Justice

undefined order

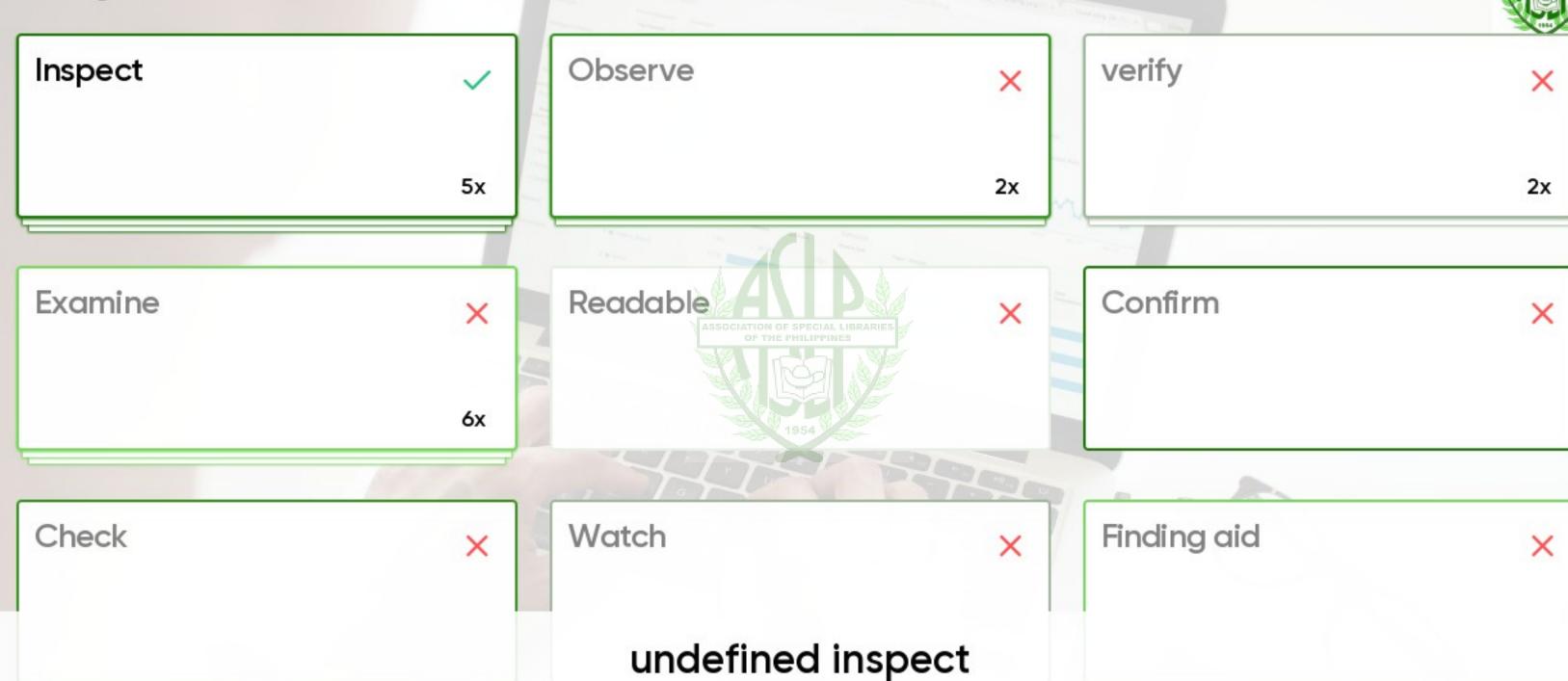


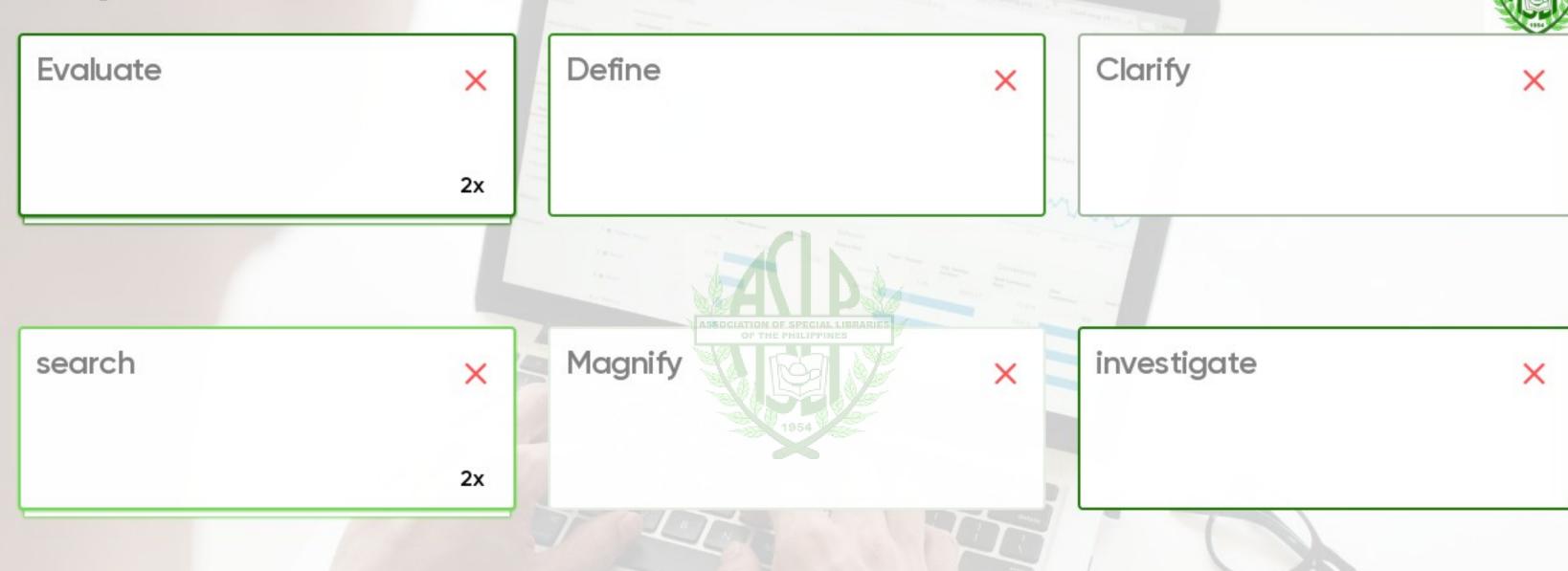
Inspect File Representation and Organization







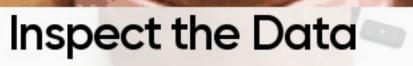




undefined inspect



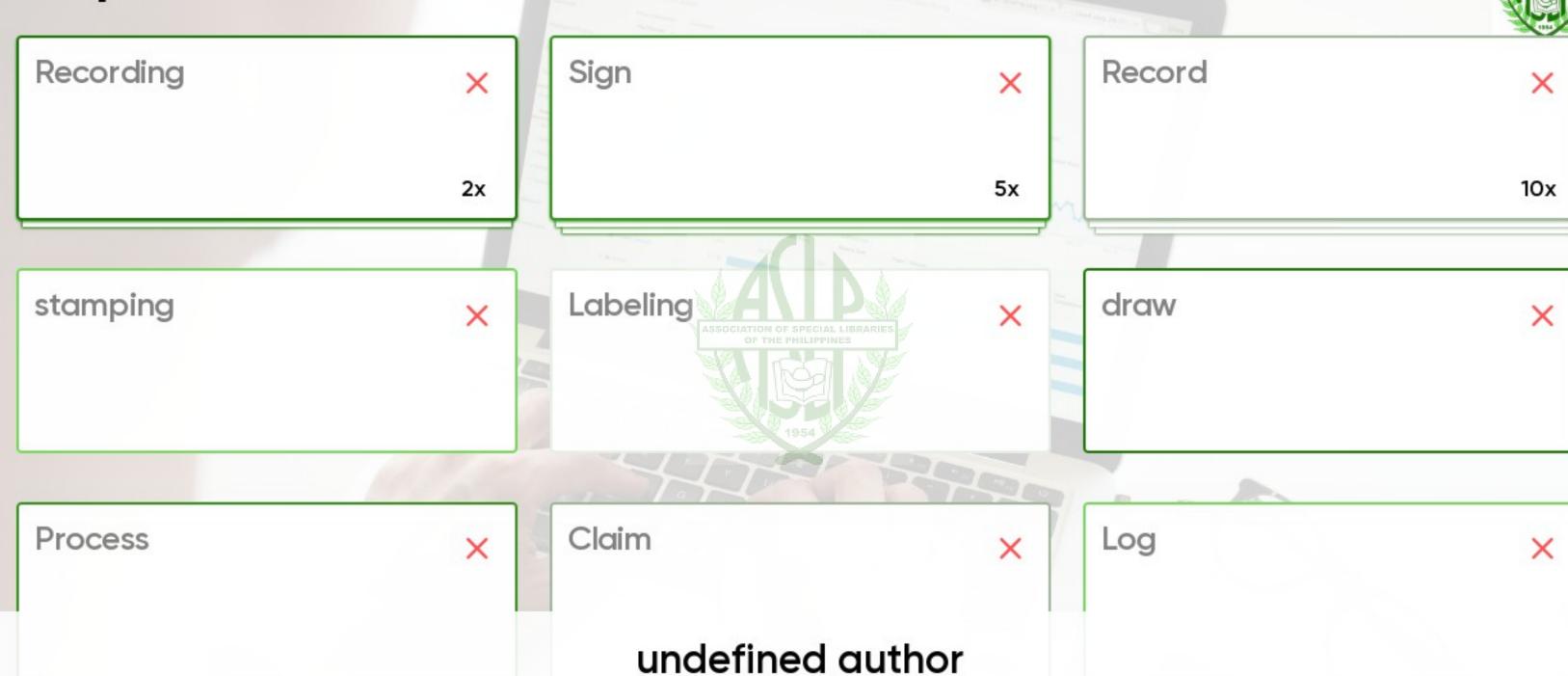


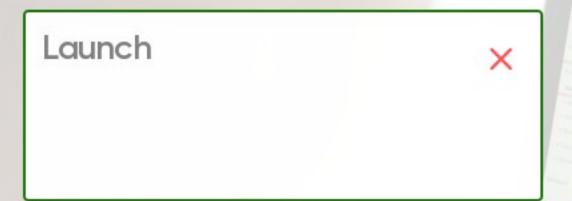


























Collaring







X

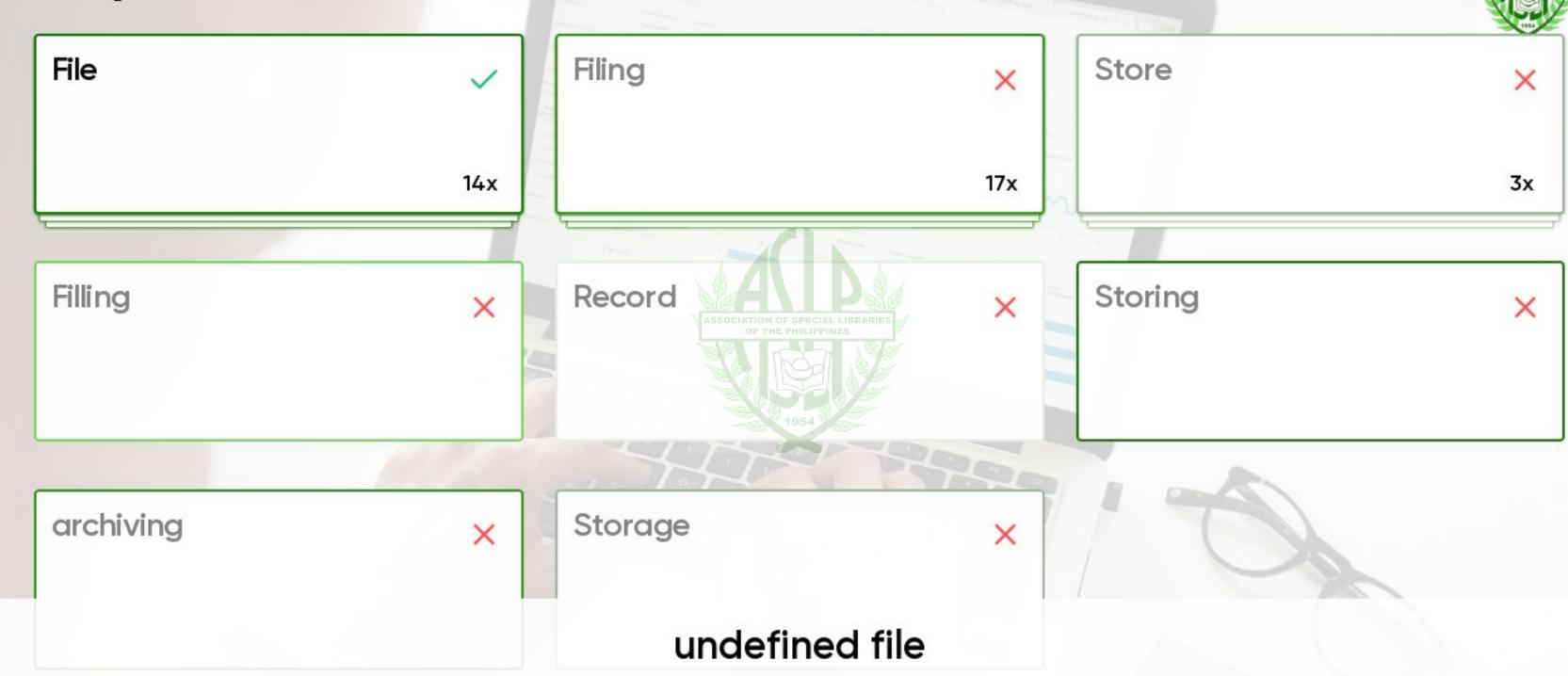




Work with the Author to Enhance the Data Submission

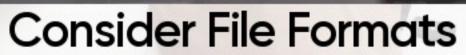


















ALI

Describe

Interpret

Record

keep

Distribution

SOCIATION OF SPECIAL LIBRARIES OF THE PHILIPPINES

Measure

Size

Check

undefined describe

Monitor

Step 3.7 Analyze Ask access × X meeting Exam × X

undefined describe





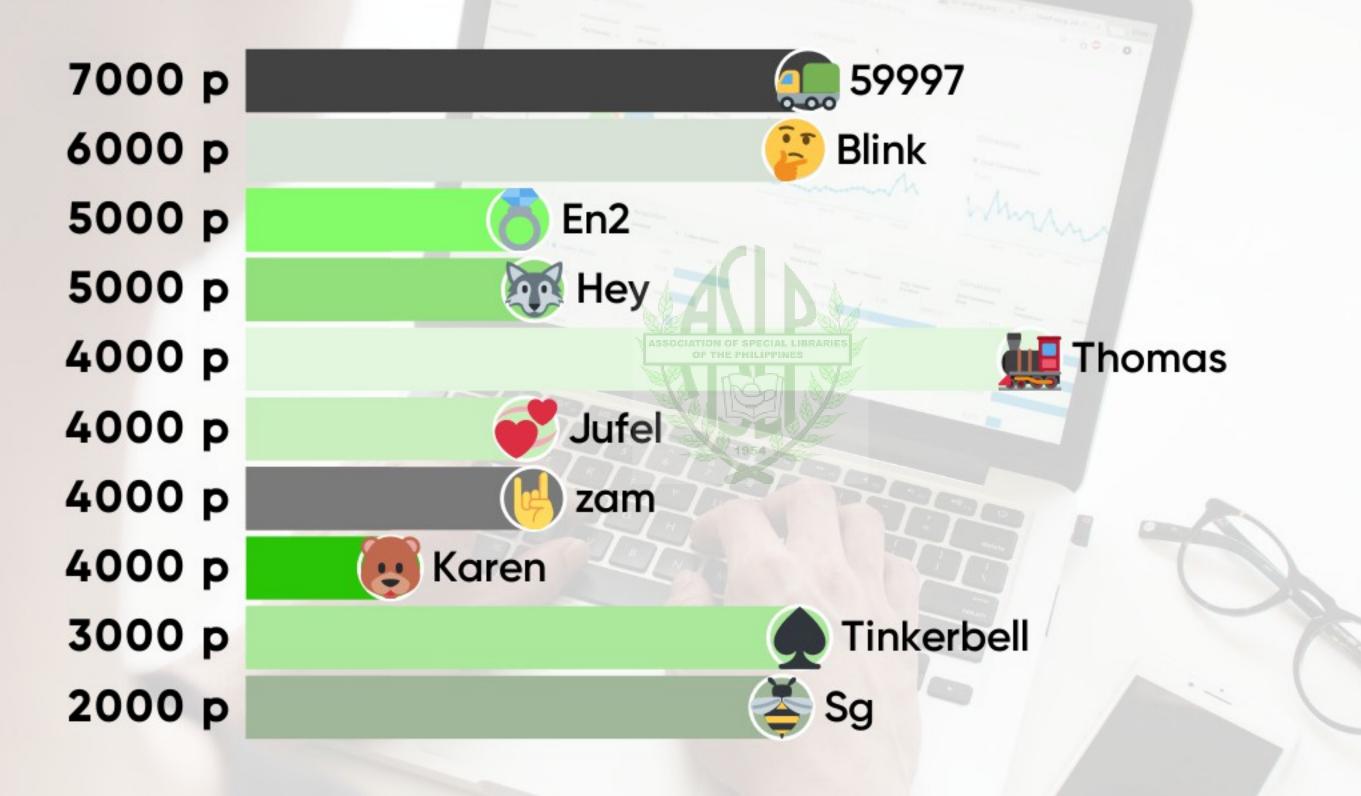
Arrangement and Description





Leaderboard







Developing a Research Data Management Service

Step 4: Ingest and Store Data in Your Repository







Step 4.1



Ingest 6x

Digest

usage

4x

2x

Feed

3x

Access

Association of special libraries of the Phillippines

Eating

2x

Eat

3×

Consume

undefined ingest

Fees



Step 4.1 Use















Step 4.2

ASIDO MINICAL LIBRARIA OF THE PROLIFFICIAL

Store

2x

Buy

Shop

2x

9x

Choose

2x

Select

ASSOCIATION OF SPECIAL LIBRATOR THE PHILIPPINES

gather

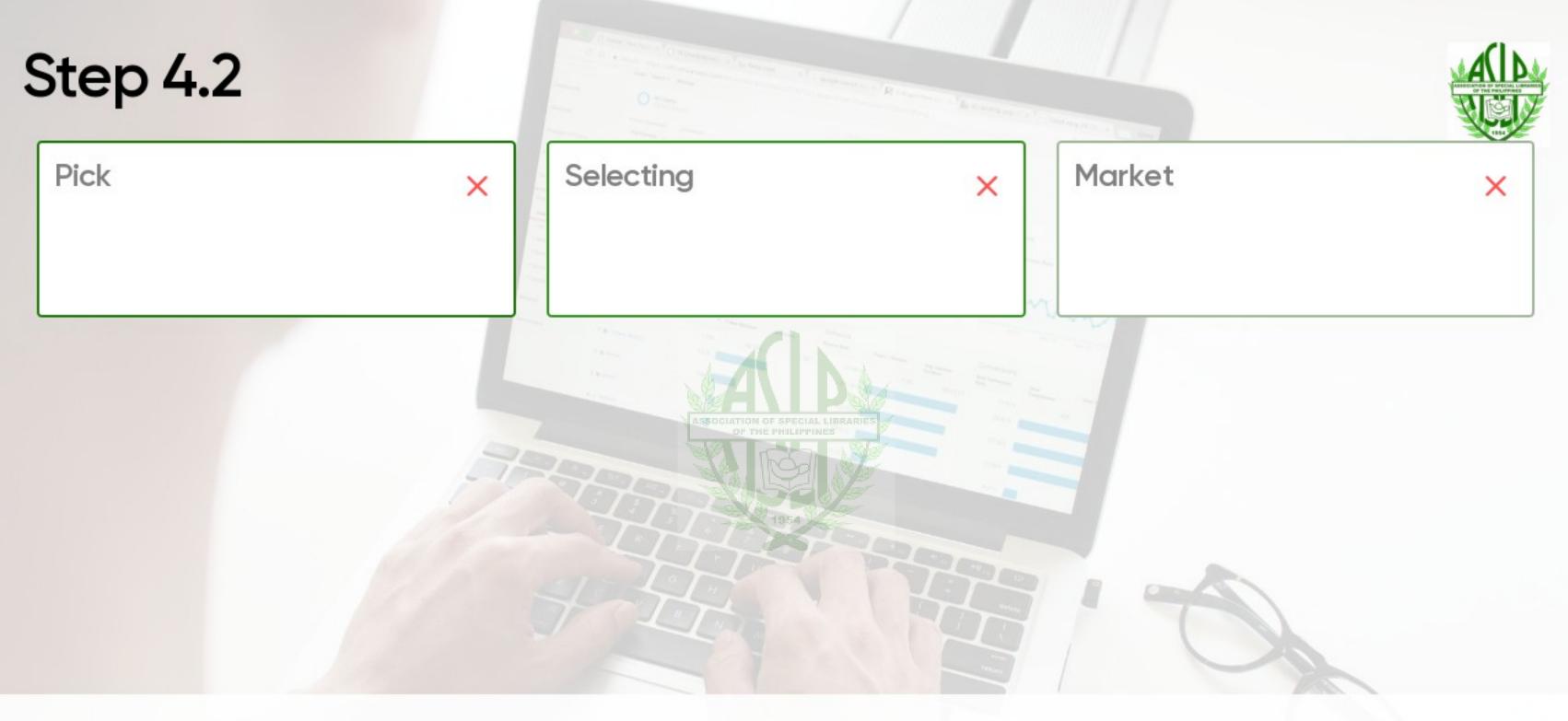
Organize

Sort

undefined store

sorting

2x



undefined store

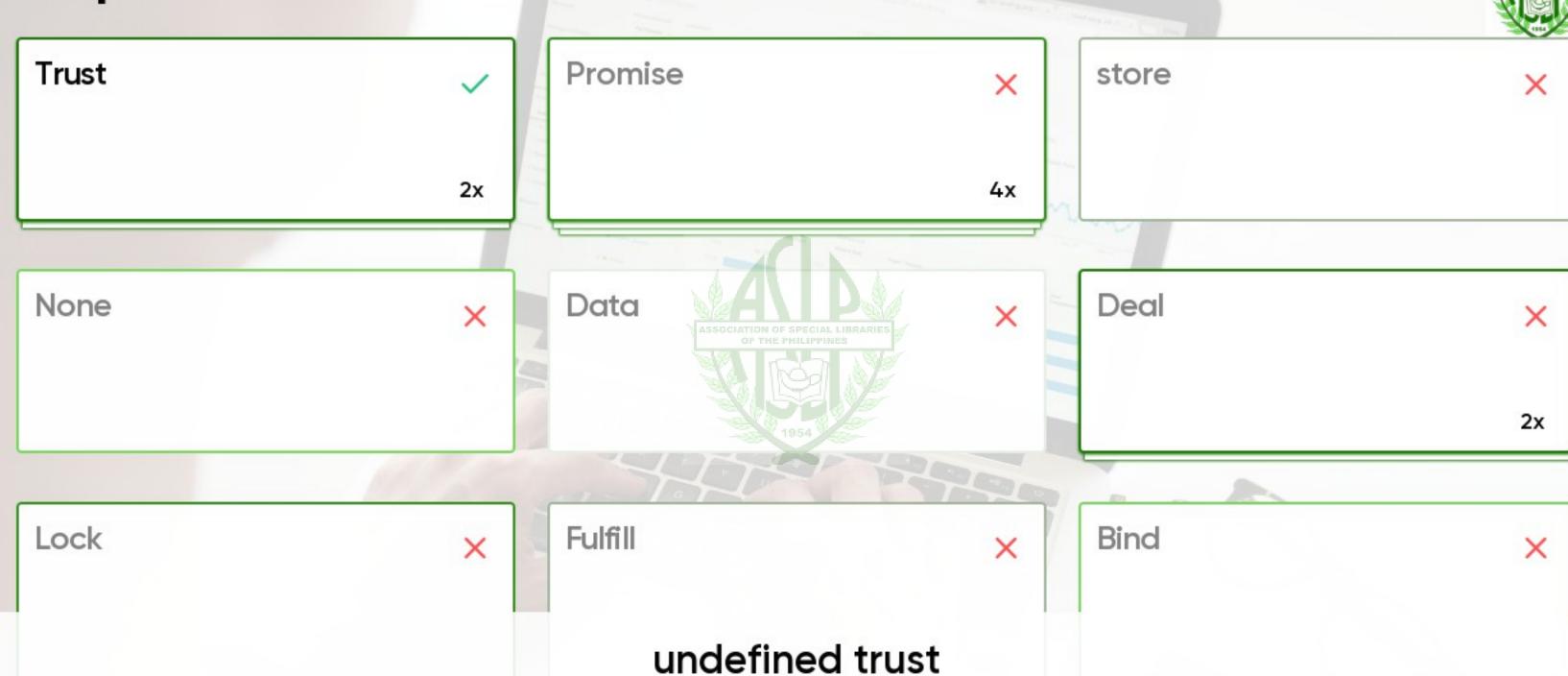








Step 4.3



Step 4.3 **Entrust** Katie secure × agreement X

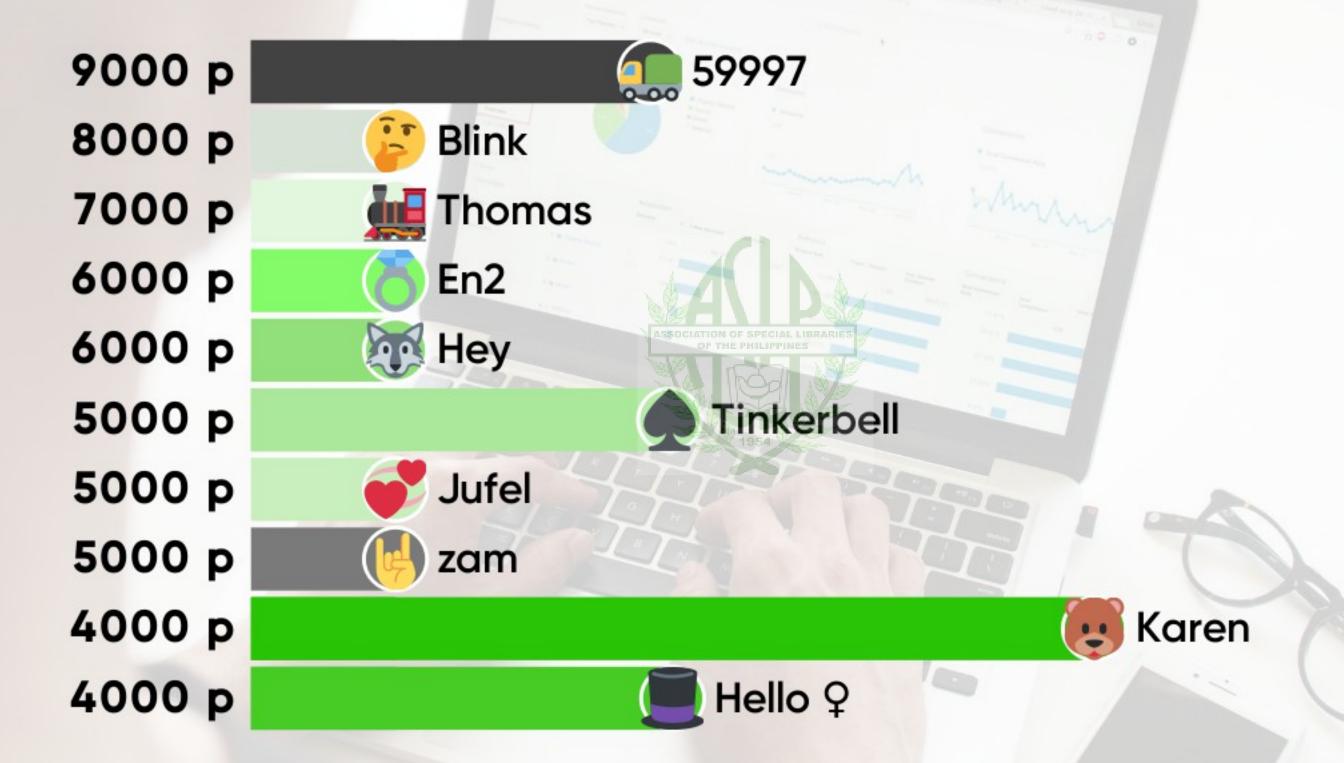
undefined trust



Develop Trust in Your Repository

Leaderboard









Developing a Research Data Management Service

Step 5: Descriptive Metadata







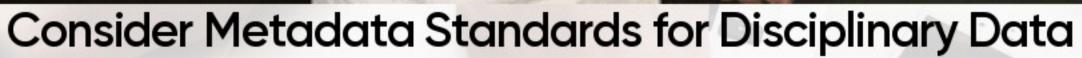








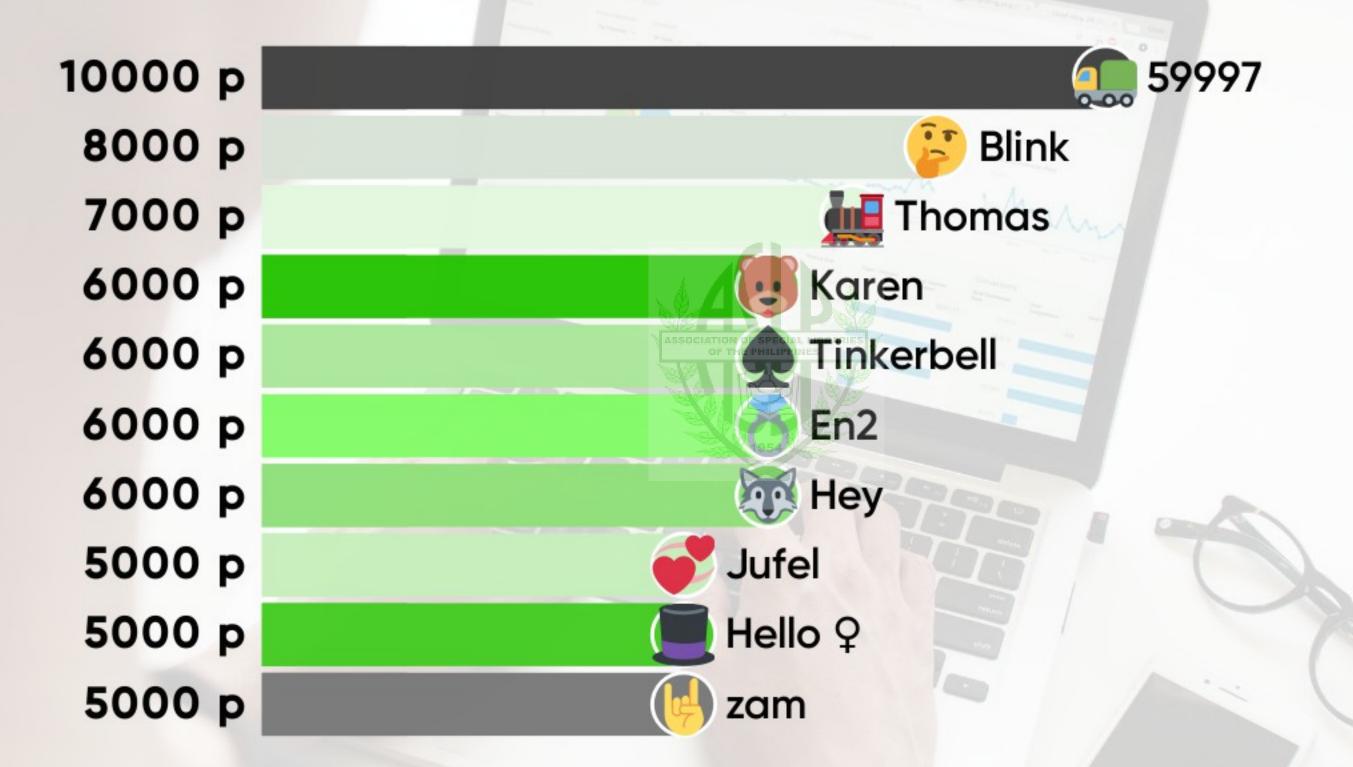






Leaderboard







Developing a Research Data Management Service

Step 6: Access











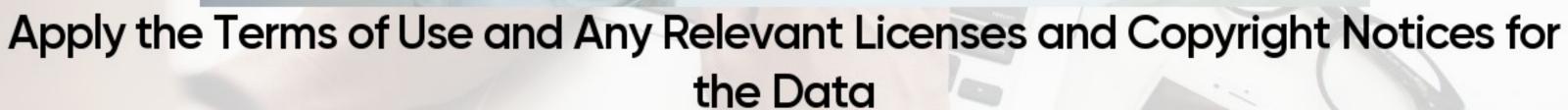








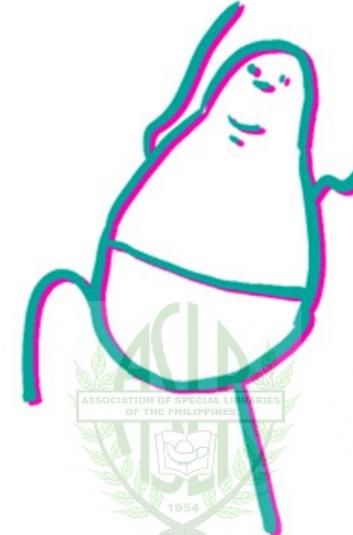












NO CONTEXT NEEDED

LISA VERTUDACHES

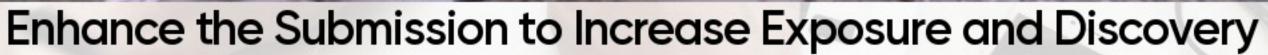
Contextualize the Data





















Apply Any Necessary Access Controls









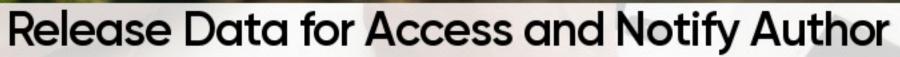












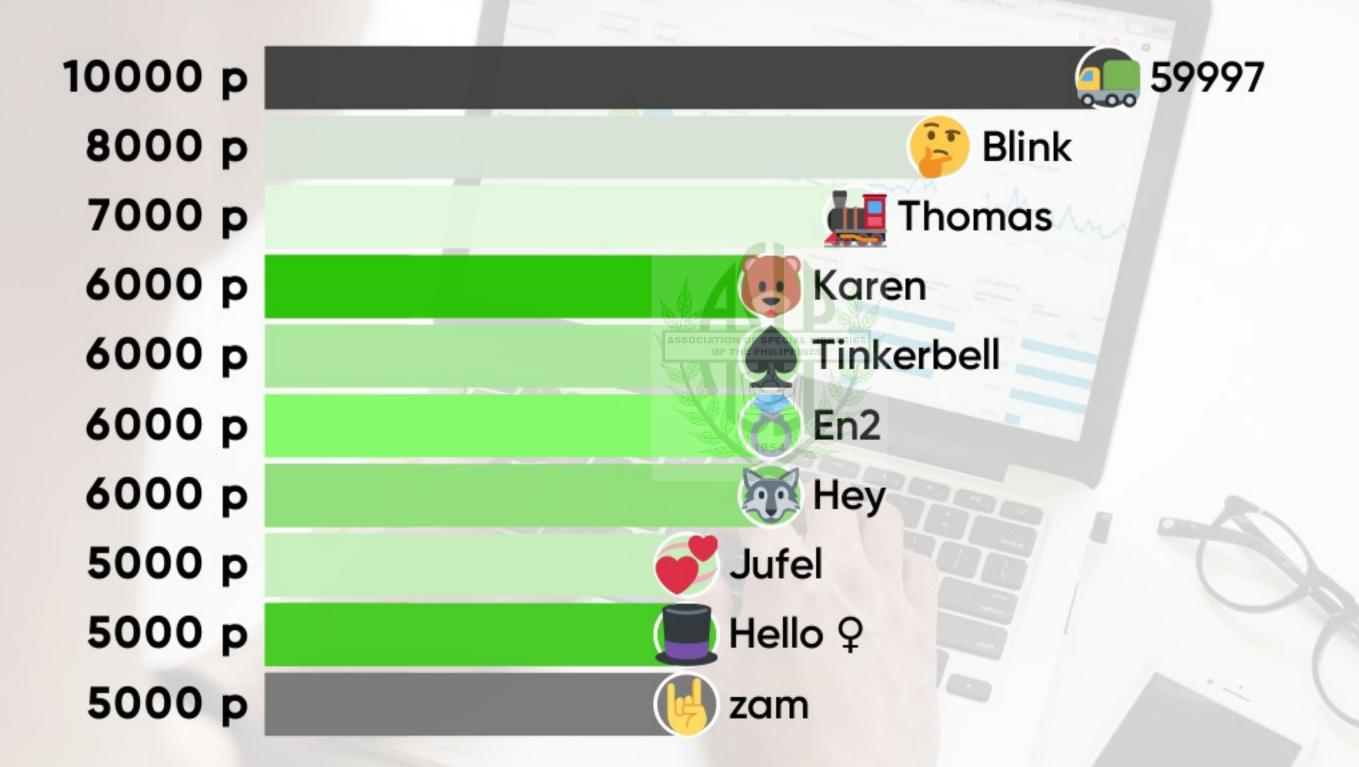






Leaderboard







Developing a Research Data Management Service

Step 7: Preservation of Data for the Long Term





















Monitor Preservation Needs and Take Action







Developing a Research Data Management Service

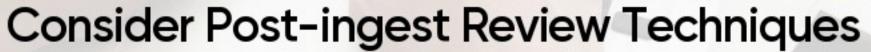
Step 8: Reuse

























Leaderboard



