

Group 7

Presentation

Book Recommendation chatbot -
Chatbot Assignment

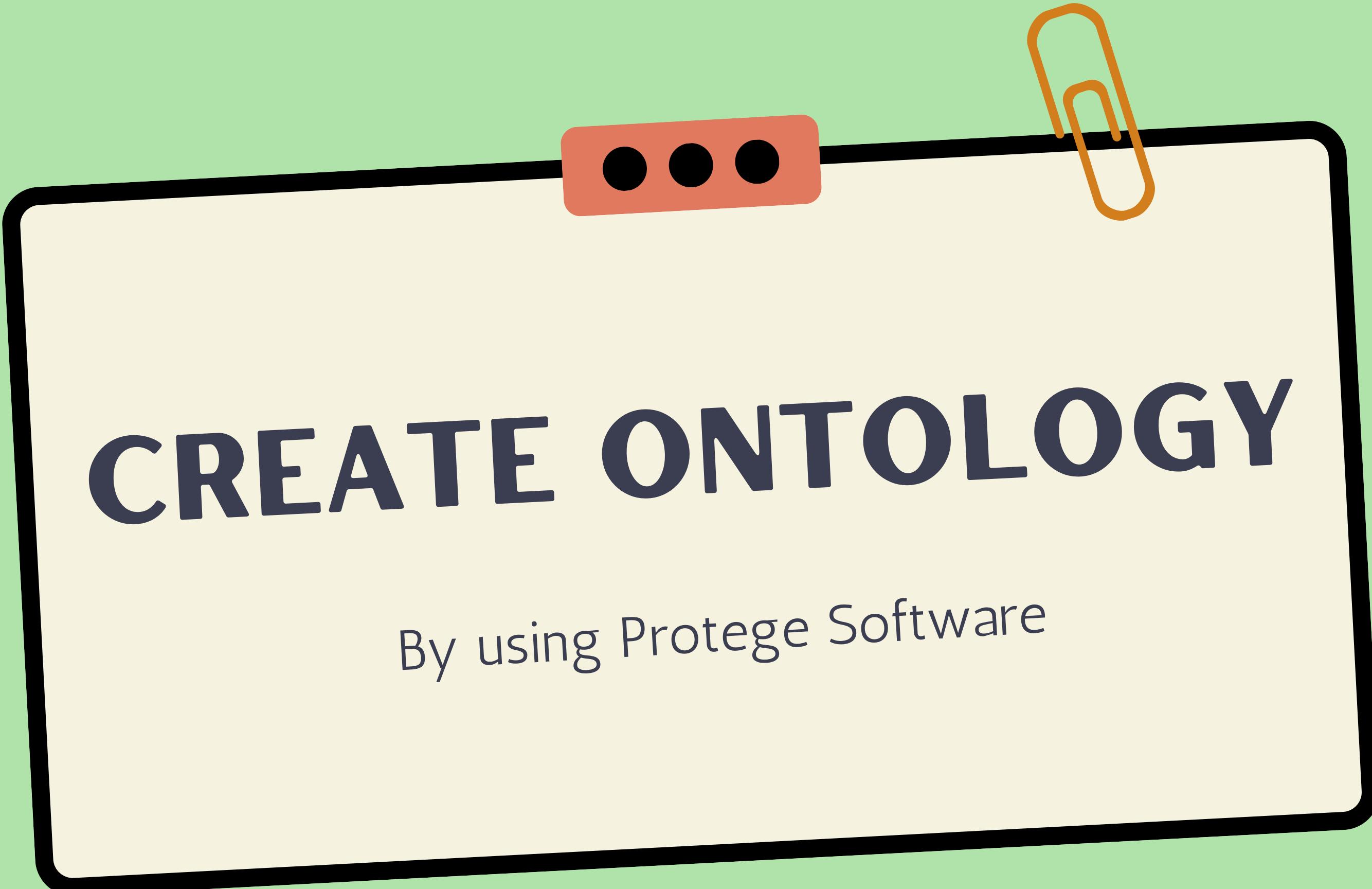




Data Science Subject

we choose our chatbot about book recommendation system which is related to our final projet.





CREATE ONTOLOGY

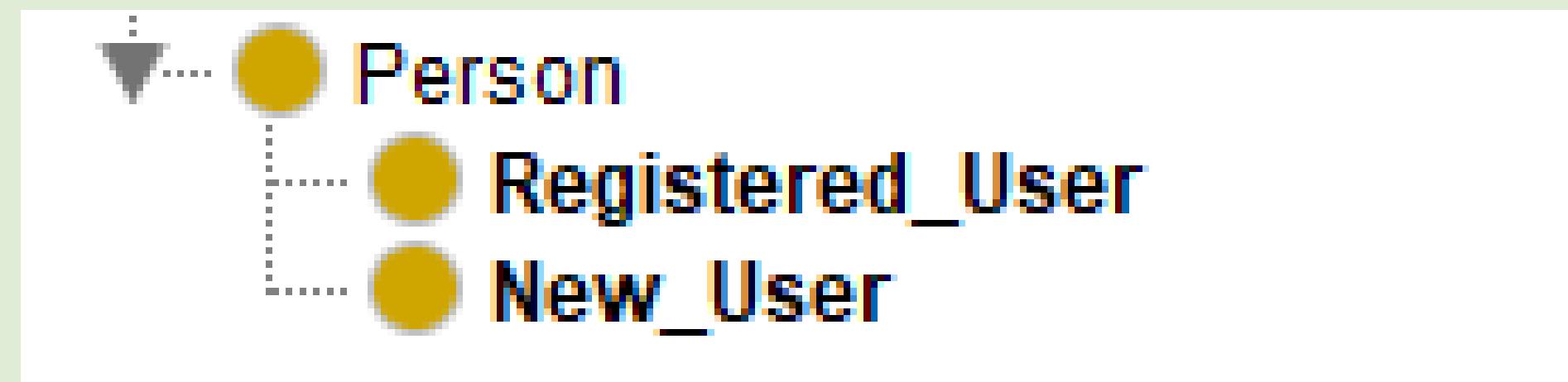
By using Protege Software

ONTOLOGY - PROTEGE

- **First** we determine our ontology classes
 - **Person Class** which include two sub classes:
 - 1-New user
 - 2-Registerd user.

ONTOLOGY - PROTEGE

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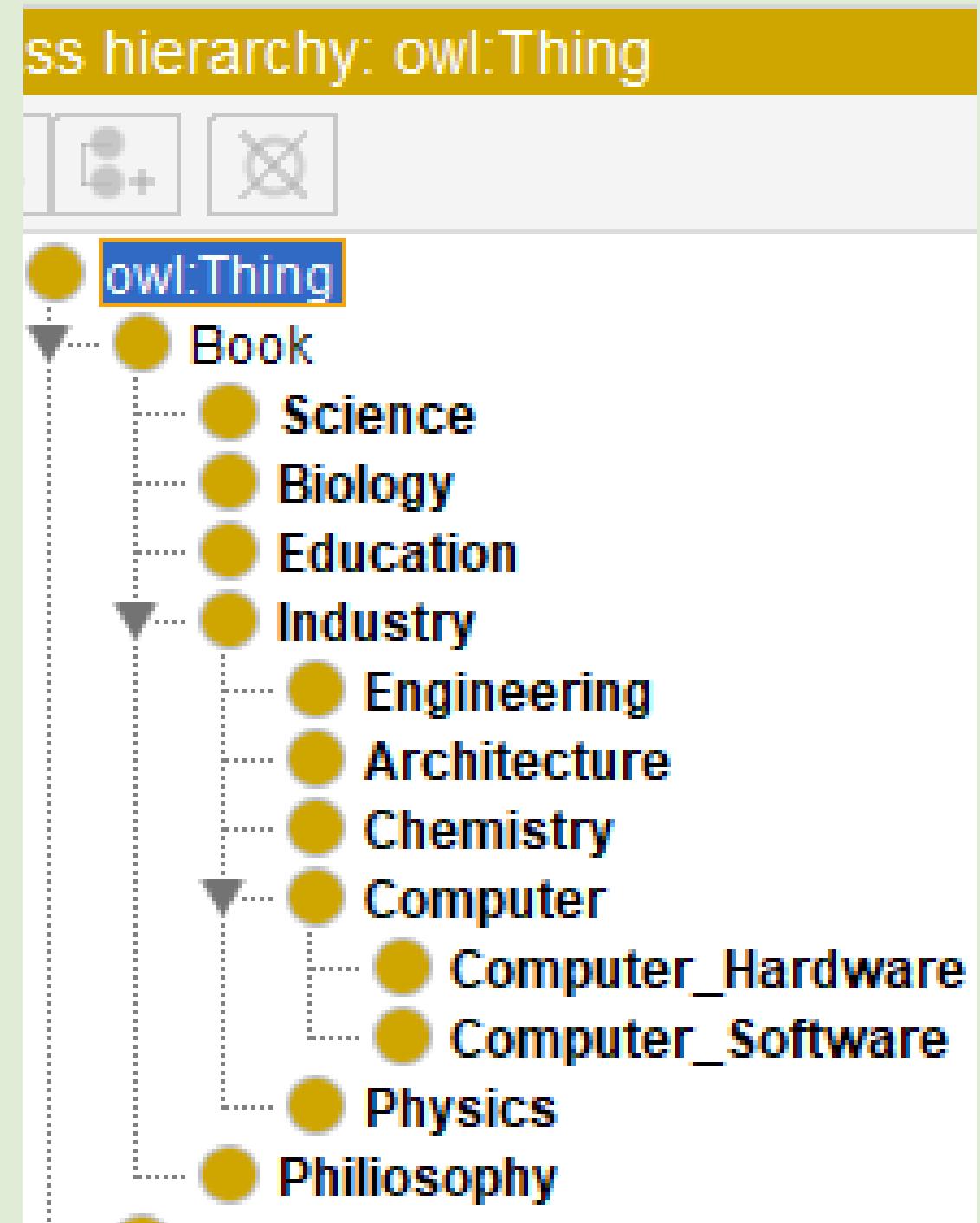


ONTOLOGY - PROTEGE

- **SECOND CLASS**
- **Book Class** which include Five sub classes:
 - 1-Biology
 - 2-Education
 - 3-Science
 - 4-Philisophy
 - 5-Industry

ONTOLOGY - PROTEGE

- Then
- Sub Class Indusrty have 5 sub classes:
 - 1-Engineering
 - 2-Physics
 - 3-Computer Hardware & Software
 - 4-Architecture
 - 5-Chemistry



DATA PROPERTIES



- Each Book sub class have attributes

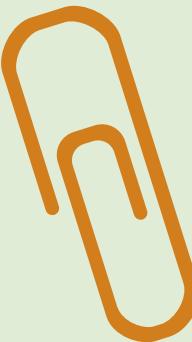
Book Author

Book Price

Book Name

Press Nubmer

DATA PROPERTIES



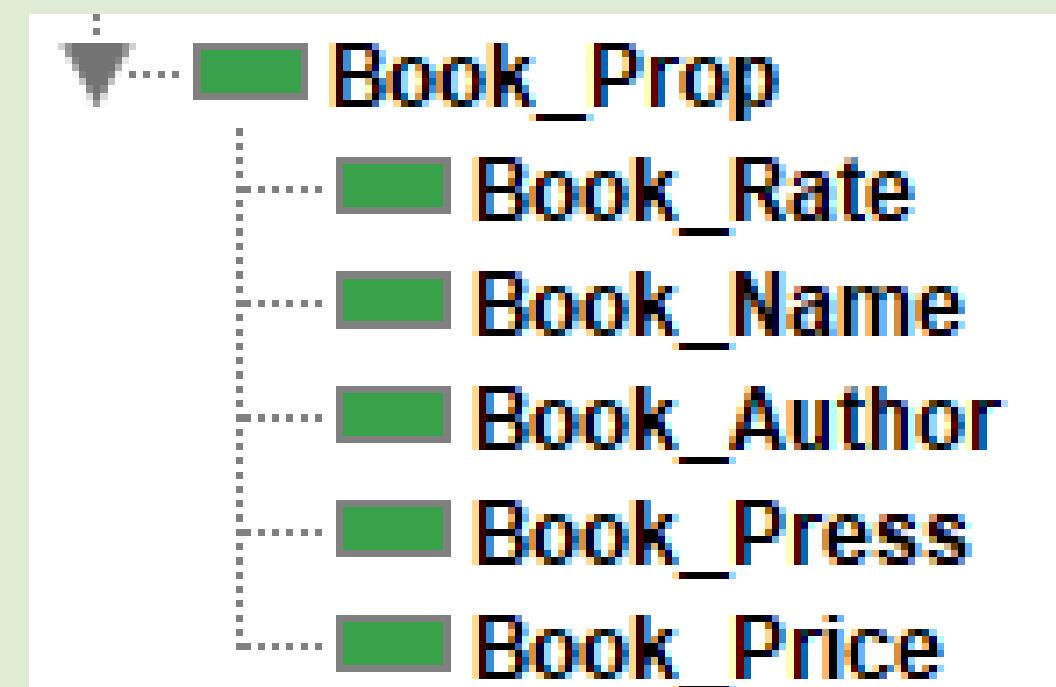
- Each Book sub class have attributes

Book Author

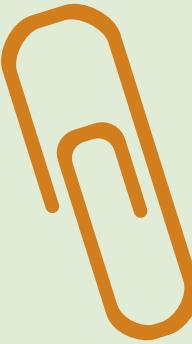
Book Price

Book Name

Press Nubmer



DATA PROPERTIES



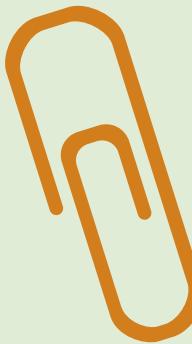
Each sub class of Person have attributes

Person Age

Name

Interest

DATA PROPERTIES

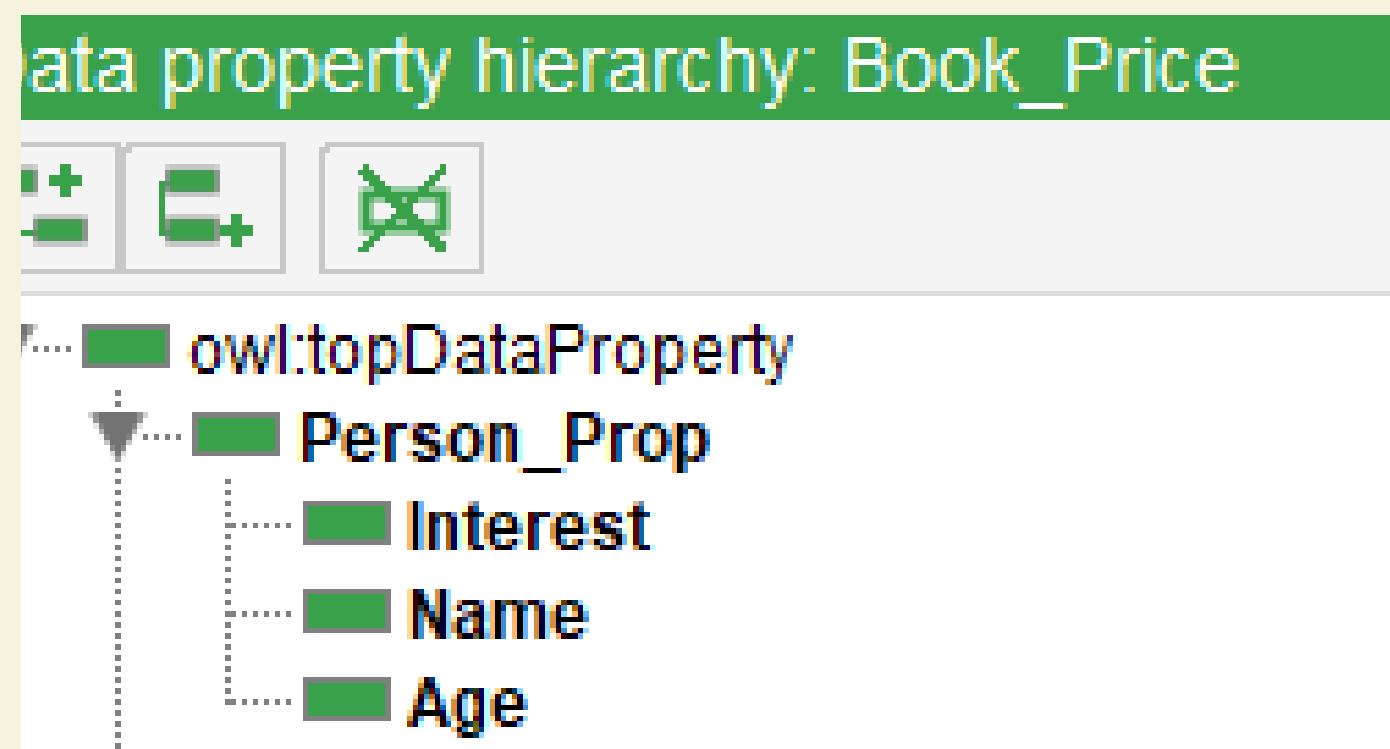


Each sub class of Person have
attributes

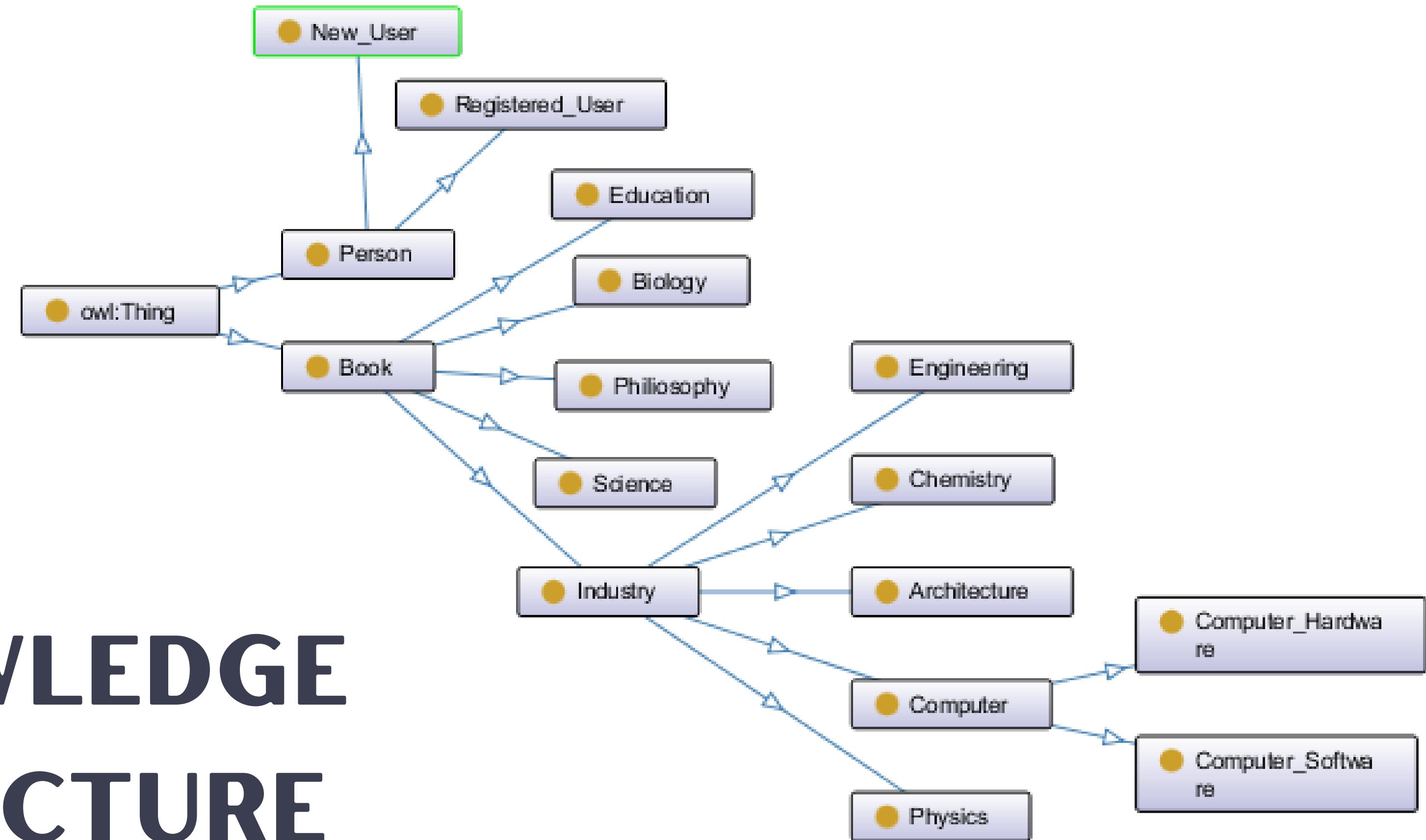
Person Age

Name

Interest



Search: contains





PART 2- DIALOG FLOW

INTENTS

The screenshot shows the Dialogflow Essentials interface with the following details:

- Top Left:** Dialogflow Essentials logo, project name "Ktaby", language "en", and a "Global" dropdown.
- Left Sidebar:** A navigation menu with icons and labels: Intents (selected), Entities, Knowledge [beta], Fulfillment, Integrations, Training, Validation, History, and Analytics.
- Top Right:** "CREATE INTENT" button and a three-dot menu icon.
- Header:** "Intents" with a message icon.
- Search Bar:** "Search intents" with a magnifying glass and filter icon.
- List of Intents:**
 - 1. Default Welcome Intent
 - 2. Search-for-books
 - 3. Books-genre
 - 4. Books examples
 - 5. Biology Books
 - 5.1. Industry books
 - 5.2. Education Books
 - 5.3. Philiosphy Books
 - 5.4. Science books
 - 6. Do not know
 - 7. Goodbye
 - Default Fallback Intent

ENTITIES

Dialogflow Essentials Global ▾

Ktaby en +

Intents +

Entities +

Knowledge [beta]

Fulfillment

Integrations

Training

Validation

Entities

Custom System

Search entities 🔍

@ Biology

@ books-genre

@ Education

@ Industry

@ Philiosphy

@ Science

CREATE ENTITY

⋮

1.DEFAULT WELCOME INTENT

Training Phrases

” hi
” hello
” hey
” lovely day isn't it
” I greet you
” a good day

Responses

Text Response	
1	Hello! I am Ktaby Recomendation book Chatbot Developed by amazing DEBI team :).
2	Greetings! I am Ktaby Recomendation book Chatbot Developed by amazing DEBI team :).
3	Good day! I am your Recomendation book Chatbot.
4	Enter a text response variant

2.SEARCH-FOR-BOOKS

Training Phrases

” Suggest me book to read
” Can you recommend me a book?
” I want to search for a book.
” I want to read a book

Responses

Text Response	
1	Of course, which genre do you like to read?
2	Yes of course, tell me about the genre you like the best.
3	What genre do you prefer to read?
4	Enter a text response variant

3.BOOKS-GENRES

Training Phrases

” I prefer historical books
” I want stories for children
” I love romance books.
” I am a casual reader and love to read sci-fi and fantasy books.

Responses

Text Response	
1	It's great to hear that you like \$books-genre books. what is the last book you read?
2	I also like \$books-genre books, we have common taste. what is the last book you read?
3	Great!! I am wondering what is the last book you read?
4	Cool!! Tell me more about the last book you read.
5	Enter a text response variant

4.FIRST SCENARIO: THE USER KNOWS

Training Phrases

- ” I love The Fellowship of the Ring.
- ” I read lord of the rings.
- ” The last book I read was Harry Potter.

Responses

Text Response	
1	So you will like Pennyroyal Academy Series. by M.A. Larson
2	Ok then of course you will like the Hobbit.
3	So I recommend you to read The Return of the King.
4	Enter a text response variant

4.SECOND SCENARIO: THE USER DOESN'T KNOW

Training Phrases

” I am not sure about that
” I do not have that information right now
” I do not remember
” I really do not know, can you help me?

Responses

Text Response	
1	So let me recommend you one of our top rated books which name is The Lord of the Rings .
2	Ok no problem. I will recommend you one that has also a trailer you can watch in the weekend which name is Harry Potter.
3	Enter a text response variant

5. INTENTS FOR A SPECIFIC GENRE

Training Phrases. Example: Industry

“ can you suggest to me an industry book.

“ I would like to read industry books

“ I prefer Industry books

Responses

Text Response



1 The \$100 Startup by Chris Guillebeau is a good \$Industry book.

2 Suggest to read Structures – or Why Things Don't Fall Down by J.E. Gordon is a good Engineering \$Industry book.

3 A Brief History of Time is a good choice for physics \$Industry book.

4 Enter a text response variant



SAME STEPS

- Education
- Philosophy
- Science
- Every genre



Competency questions

- 1-Can you suggest to me a good Industry book ?
 - 2-I would like to read education book.
 - 3-I am a casual reader and love to read sci-fi and fantasy books.
 - 4-The last book I read was Harry Potter.
 - 5-I do not have an information right now for this request.
 - 6-I want to search for a book.
- 

6.GOODBYE AND THANKS

Training Phrases

” See you later

” Goodbye

” Bye

” Thanks a lot

Responses

Text Response



1 have a nice day

2 It was nice to talk to you

3 Come again

4 Peace out

5 Enter a text response variant





Thank You!