

# CS 4604: Introduction to Database Management Systems

## Project

Virginia Tech CS 4604 Sprint 2021

Instructor: Yinlin Chen

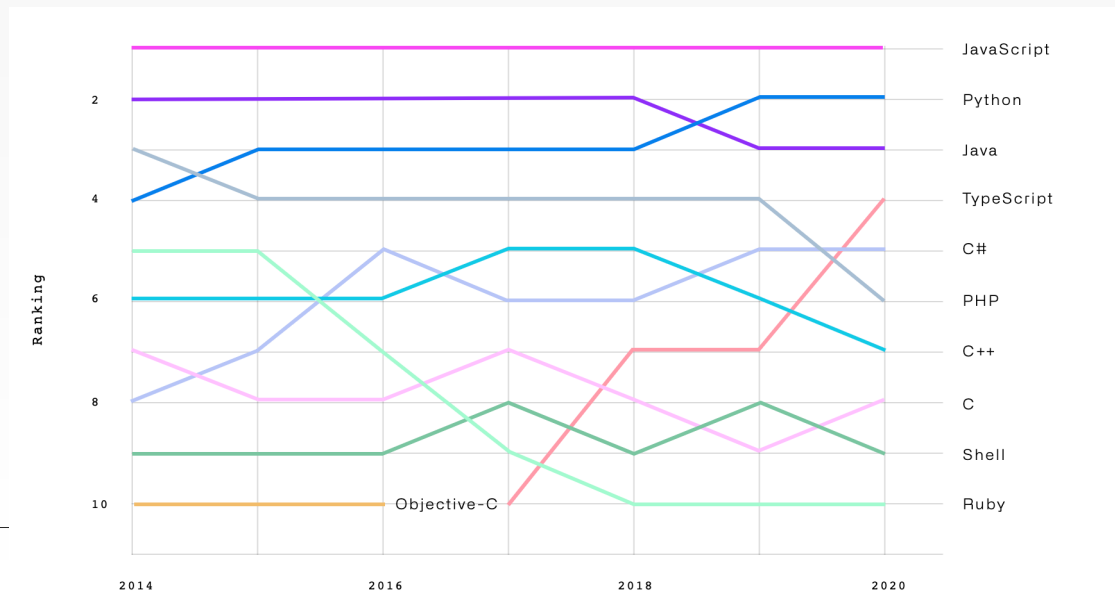
# Project

- Goal: design a database system application with a **Web** front-end
- Total of 3 project assignments during the semester and 2 presentations
- **Heads-up: Reminder about groups**
  - Same group for rest of the semester
  - You are free to choose your own project members
  - You can post on piazza as well
  - **4 members.**

# Project

- Team picks the programming language
  - Please do not pick something like FORTRAN or Shell or Objective-C...
- Team picks the database from below
  - RDBMS (MySQL, MariaDB, SQLite, PostgreSQL)
  - MongoDB, Redis

You don't need to decide now!



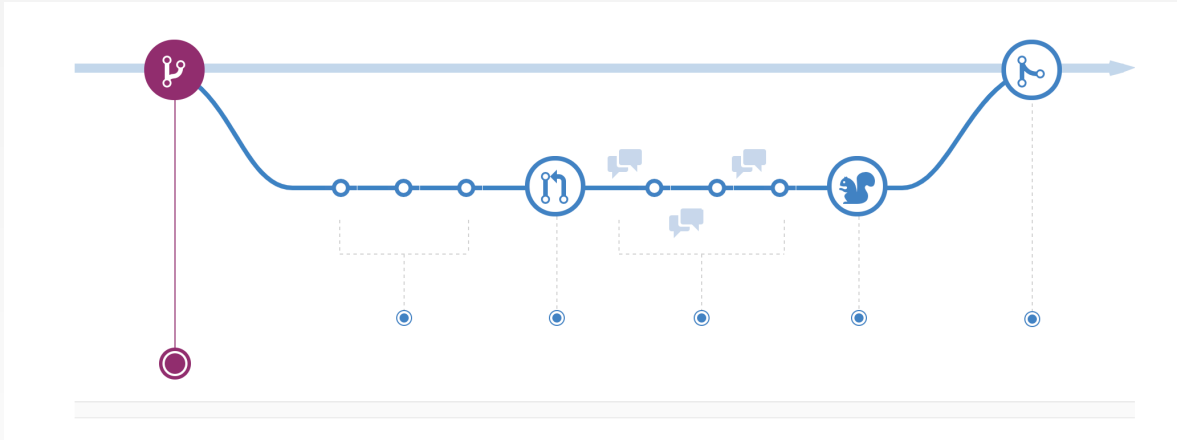
# Past Projects

- BiblioVT
- TweetVT
- The Configuration Management Database (CMDB)
- Hot Wheels Auto Repair
- Hospital DB
- ArtBase
- Real-estate Database

# Project 1

- <https://github.com/VTCourses/CS4604> **Project**
- Form a group
- Learn Git & GitHub
- Learn Markdown
- First due 01/28 11:59pm (Team with 2,3,4)
  - Team with 4
  - Add a not in the Readme.md and indicate needs (Programming, Writing, Presentation, System Design)
  - We will find/assign other students to your team
- Final due 02/04 11:59pm

# GitHub Flow



1. Create a branch
2. Add commits
3. Open a Pull Request
4. Discuss and review your code
5. Deploy
6. Merge

# Pull Request & Code Review

LIBTD-2394: Map DLP terms to DC/Display Fields if sub-label exists fo...

#229

Merged yinlinchen merged 2 commits into dev from LIBTD-2394 on Dec 16, 2020

Conversation 2

Commits 2

Checks 1

Files changed 7

+56 -29



tingtingjh commented on Dec 15, 2020

Member

...r a multi-value field

JIRA Ticket: (<https://webapps.es.vt.edu/jira/browse/LIBTD-2394>)

- Other Relevant Links (Meeting note, project page, related pull requests, etc.)

## What does this Pull Request do? (★)

This PR enables sub-label configurations for displayed attributes. For example, for a multi-value field: provenance, if it has three values, with each of them can be labeled correspondingly across the collection, e.g., "Data Provider", "Repository" and "Donor Information", it can be configured in our site configuration database. This PR also displays date information truly according to the data stored in the "start\_date", "end\_date" and "circa" fields.

## What's the changes? (★)

- Changes how date being displayed
- Added sub-label displays for a multi-valued field

## How should this be tested?

- REACT\_APP\_REP\_TYPE=SWVA npm start
- Make sure the metadata is labeled according to DLP-DCTerms Mapping file, such as File Format, Accession Number, Rights, Data Provider, Repository and Donor Information
- Make sure date is displayed as exactly from the metadata input

## Interested parties

Tag (@yinlinchen) interested parties

(★) Required fields

Reviewers

yinlinchen

Assignees

No one—assign yourself

Labels

Ready for review

Projects

None yet

Milestone

No milestone

Linked issues

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

Unsubscribe

You're receiving notifications because you're watching this repository.

2 participants



Lock conversation

# Reminder

- Have a balanced team
- Team work
- Zoom meet
- Commit early and often
- Test-driven development (TDD)
- Automation (CI/CD)
- Documentation



# Good

We can do it!



We can do it!



Yes, we can



Yes, we can



# Better

Clean Code



Effective  
Presentation



Optimization  
Security, etc.



Better docs



Hmm.....

Code Only



Design Only



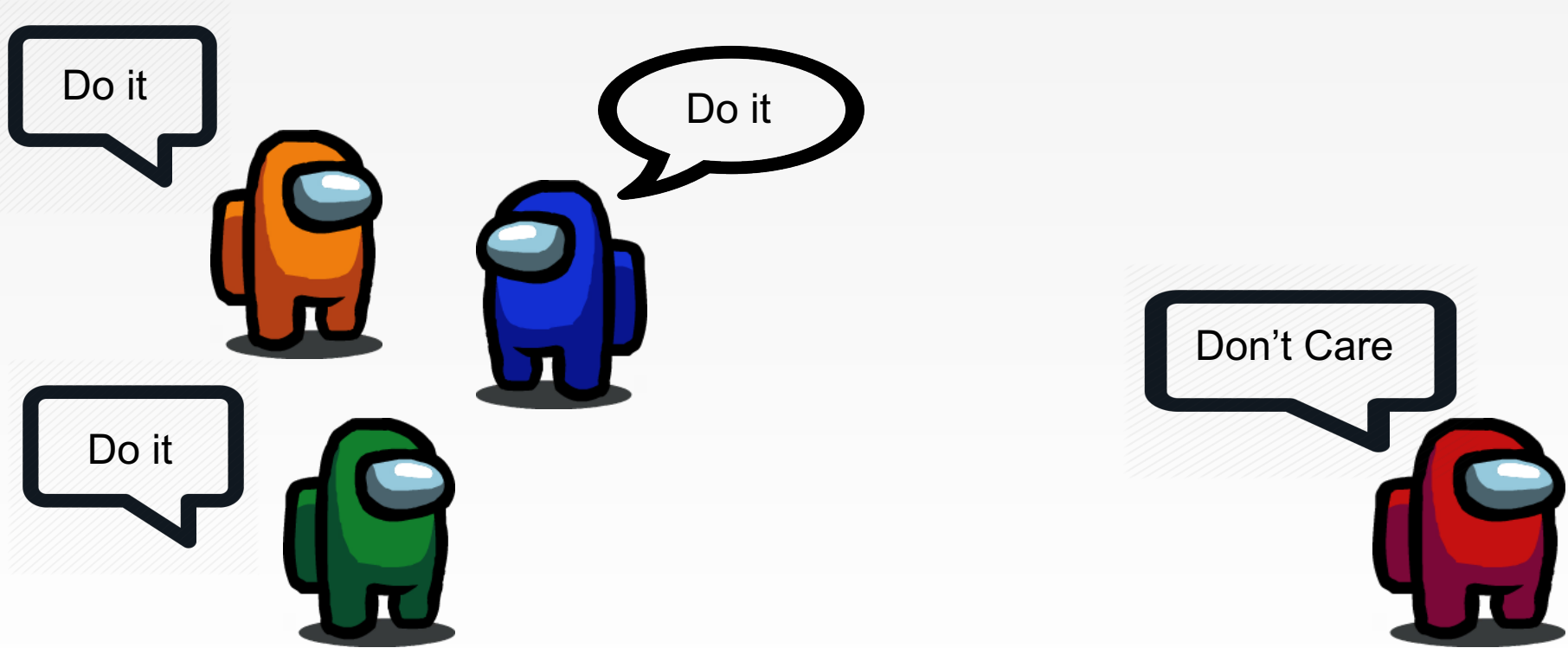
Present Only



Write Only



# Not Good



# Bad

Do it!



Please do it



Do it...



.....



.....

Don't Care



Don't Care



Don't Care



Don't Care



# Teamwork

