

Final Assignment Presentation

By: Seyed Ali Firooz Abadi



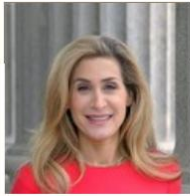


1

Prog 01 : Extractor

Prog 01

O V E R V I E W



Representative Beth E. Bernstein

Democrat - Richland
District 78 - Richland County - [Map](#)

Columbia Address

532C Blatt Bldg.
Columbia 29201

Business Phone (803) 212-6940

Home Address

1019 Assembly St.
Columbia 29201

Business Phone (803) 799-7900

[Send message to Representative Bernstein](#)

Personal Information

- Attorney & Partner, Bernstein and Bernstein Attorneys at Law
- Residing at 6181 Eastshore Drive, Columbia, SC
- Born November 13 in Columbia
- Daughter of the late Carol and Isadore Bernstein
- University of Georgia, B.A., 1991
- University of South Carolina, J.D., 1994
- Married to Knowlton "Rip" Sanders, 2 children, Caroline and Isabel
- Graduate, Leadership Columbia, 1998
- Junior League of Columbia, 1999-present
- South Carolina Philharmonic Board, 2000
- President, Overtures of the South Carolina Philharmonic, 2000
- Beth Shalom Synagogue Board of Directors, 2001-09
- Three Rivers Heritage and Music Foundation Board, 2002-05
- Executive Committee, Richland County Bar Association, 2004-10
- Recipient of The State's "Top 20 under 40", 2006
- Columbia Jewish Day School Board, 2007-09
- President, Richland County Bar Association, 2009
- Palmetto Health Foundation Cancer Center Board, 2009-present
- Recipient of Business Monthly's Most Influential People, 2012

Committee Assignments

- **Ethics, Secy.**
- **Judiciary**

Sponsored Bills in the House

- Primary Sponsor: ☒ Yes ☐ No
- Search Session:

Voting Record

- Search Session:

Service In Public Office


- House of Representatives, 2013 - Present

District 78

Python 3

Prog 01

EXTRACTED DATA



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District 78 - Richland County - Map

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Committee Assignments

- Ethics, Secy.
- Judiciary

Sponsored Bills in the House

- Primary Sponsor: ☒ Yes ☐ No
- Search Session: [Find Bills](#)

Voting Record

- Search Session: [Find Votes](#)

Service In Public Office

- House of Representatives, 2013 - Present

Full Name:

Beth E. Bernstein

County:

Richland County

Political Party:

Democrat

District:

78

Columbia Address:

532C Blatt Bldg.

Columbia 29201

Home Address:

1019 Assembly St.

Columbia 29201

Phone Number:

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Committee Assignments:

1- Ethics, Secy.

2- Judiciary

Service In Public Office:

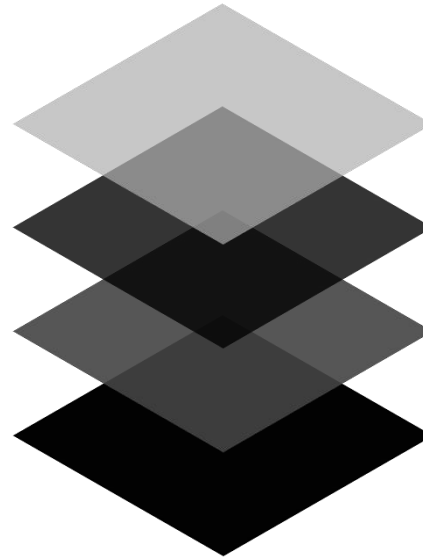
House of Representatives, 2013 - Present

Prog 01

H I G H L I G H T S

Parsing Techniques

Using 2 parsing methods, “lxml” to handle bad files and “html5lib” to better organize the HTML



Online and Offline

The program will try to access the website in real time, but if it fails, it will use an offline version.



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Prog 02 : Processor

Prog 02

CODE ORGANIZATION



CLASS Person

This holds the representor
information

De-pickling

@Property



CLASS ToString

Return a string from list
based on a separator
(custom or default)

Check input to exit

Prog 02

H I G H L I G H T S



Method overloading

Using `*args` as a parameter to pass to method.



Reusability

Dictionary (

Full_Name = [firstName, middleName, lastName],

Home_Address = home_address,

Columbia_Address = columbia_address,

Phone_Number = phoneNum_list,

Party = party,

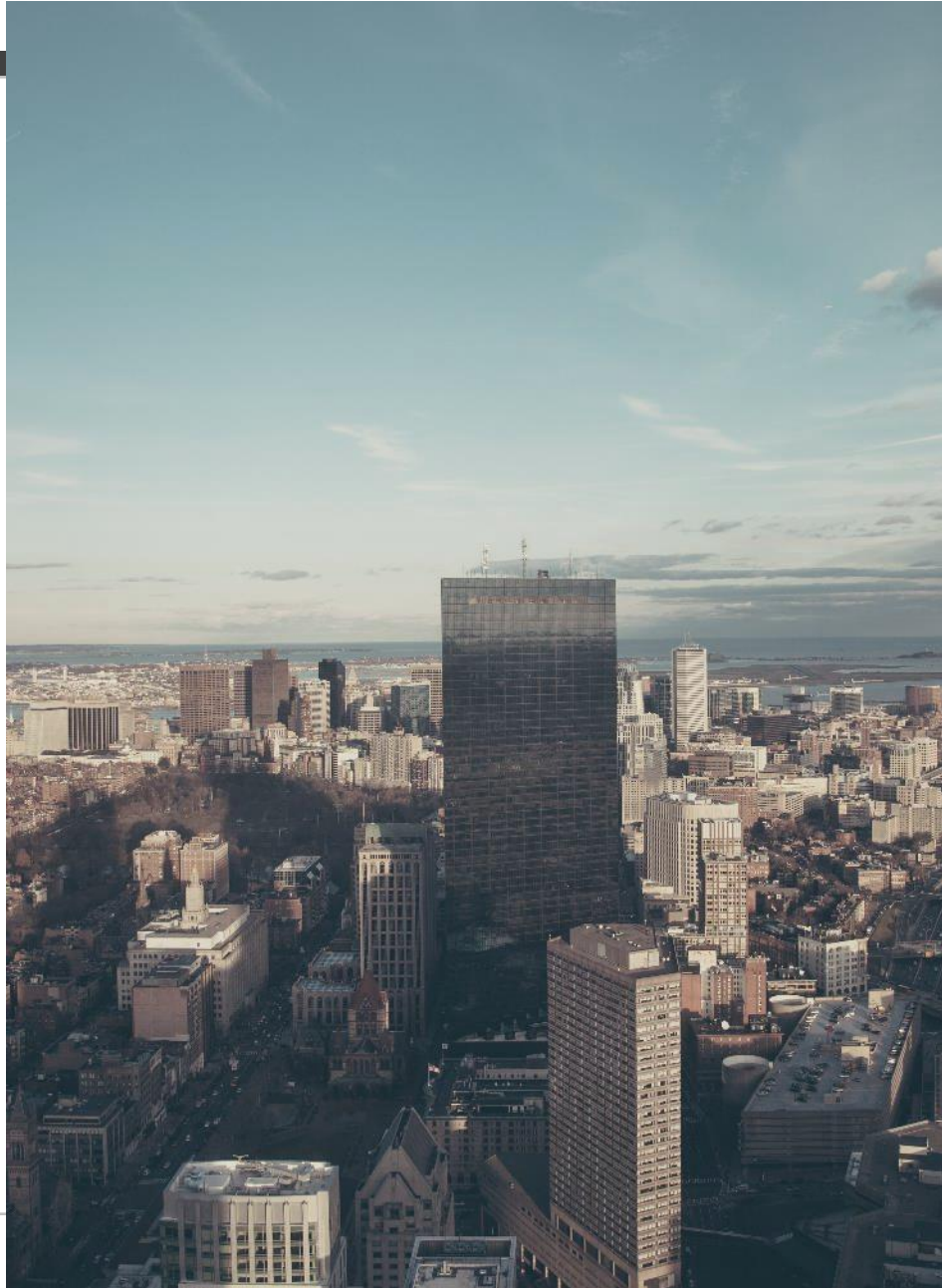
County = county,

District = district,

Personal_Info = personal_info_list,

Committee_Assignments = committee_assignments_list,

Service_Time = service_time)



3

Prog 03 : UI

Abstract_Chat_Class

basicCheck (question, Object person)
advancedCheck (question, Object person)
trainingList
strTrainingList

B a s i c _ I n f o

O t h e r _ I n f o

P e r s o n a l _ I n f o

B o t _ I n f o

ChatManager

ImportPerson (districtNumber)
answerQuestions(question)

Prog 03

H I G H L I G H T S



Regular Expression

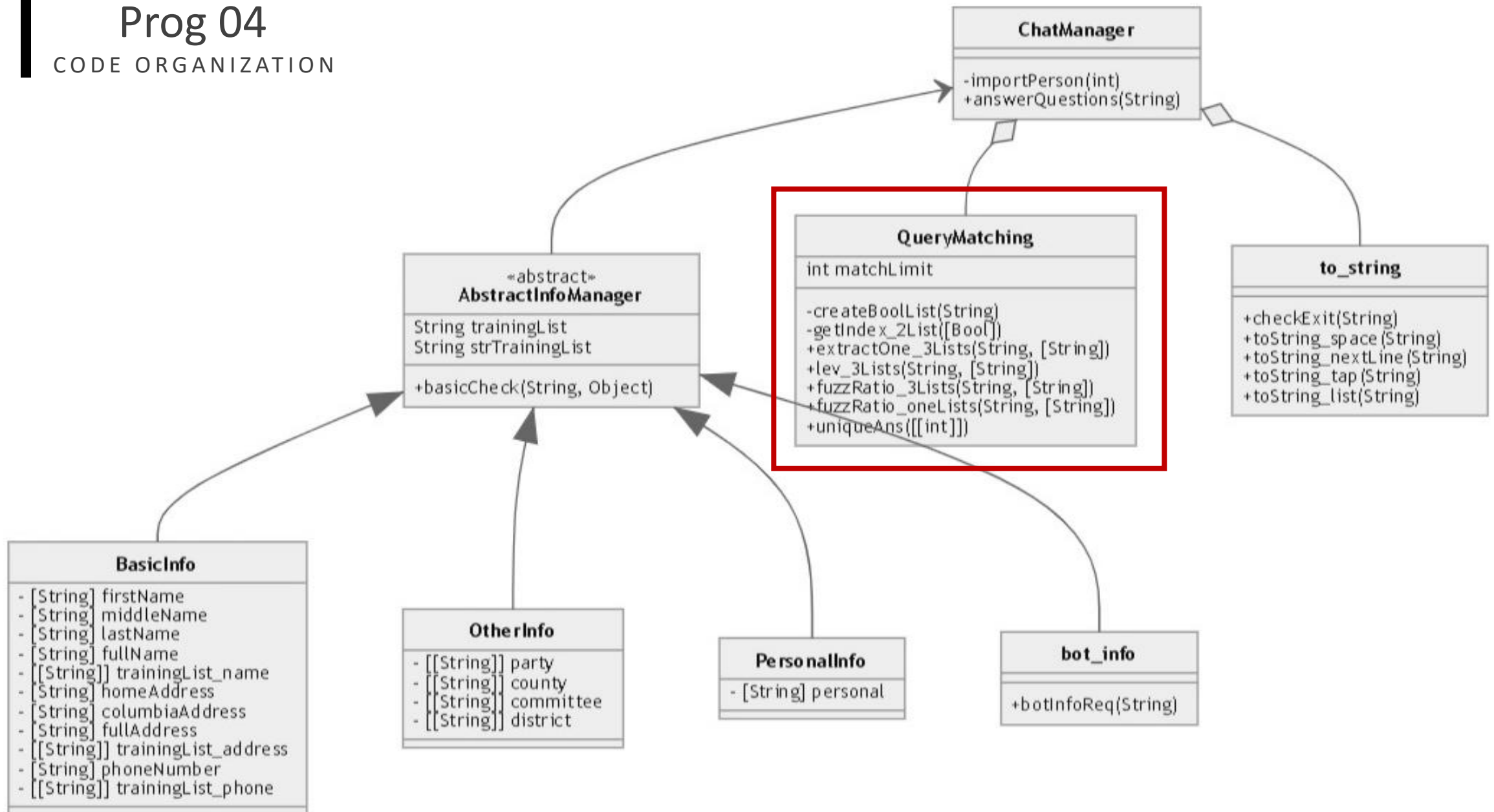


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Prog 04 : QueryMapper

Prog 04

CODE ORGANIZATION

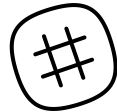


Prog 03

H I G H L I G H T S



Fuzzywuzzy & Levenshtein

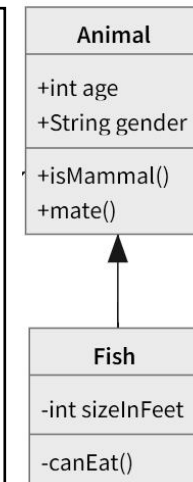


Mermaid UML

Animal <|-- Fish

Animal : +int age
Animal : +String gender
Animal : +isMammal()
Animal : +mate()

```
class Fish {  
  -int sizeInFeet  
  -canEat()  
}
```



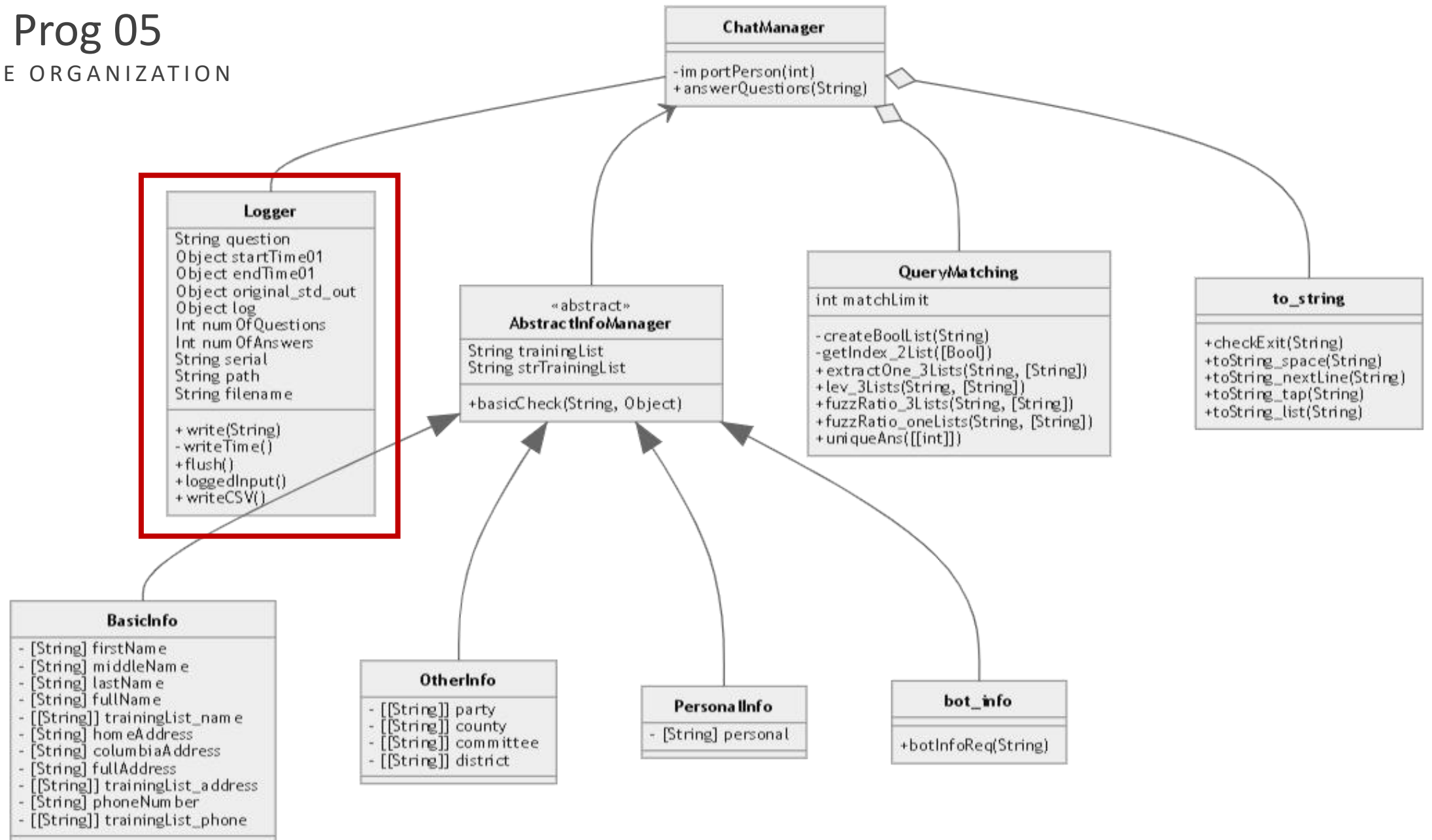


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Prog 05 :

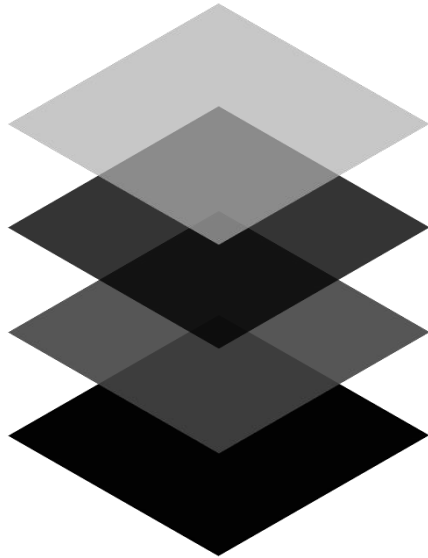
Prog 05

CODE ORGANIZATION

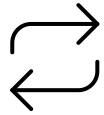


Prog 05

H I G H L I G H T S



Creating folders / files



Try: Read / access the file / folder
Except: Create the file / folder
Then: Append information to file

Manipulated print()

Originally
`print() ==> write() ==> sys.stdout`



Manipulated:
`print() ==> LoggerClass ==> write() ==> append to file + sys.stdout`

Manipulated input()

`myMethod() ==> input() ==> append to file ==> return input str`

Overview

H I G H L I G H T S

Snapshot

please enter the district number you are interested in:
>>> 78

Welcome
Now let's play a game
Remember that you can just type quit or exit anytime to exit the program
Have fun

What do you want to know?
>>> what's the name of my repo
You requested information regarding the name of your representative:
Beth E. Bernstein

What do you want to know?
>>> does she swims a lot?

Sorry I couldn't understand you, please rephrase your question.

What do you want to know?
>>> q
Have a good day, bye

Process finished with exit code 0

Test Video

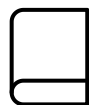
<https://youtu.be/VFGppk7KbUY>

Testing

Developing

1. text to dict method
2. implement RE as a first step

Questions ?



THANK YOU

