



CSCE 240: Advanced Programming Techniques

Lecture 27: Reuse Discussion

Lecture 28: Project Presentations

PROF. BIPLAV SRIVASTAVA, AI INSTITUTE 16TH AND 18TH AND APRIL 2024

Carolinian Creed: "I will practice personal and academic integrity."

Credits: Some material reused with permission of Dr. Jeremy Lewis. Others used as cited with thanks.

Organization of Lectures 27 and 28

- Introduction Section
 - Recap of Lecture 26 Quiz 2
- Main Section
 - Class 27: Reuse Discussion for PA6
 - Class 28: Project Presentation
- Concluding Section
 - About next lecture Lecture 29 Concluding Lecture
 - Ask me anything

Introduction Section

Main Section

PA6

Things to test

[#1] Graceful exit

"Quit" or "quit" or just "q" => Program exits

[#2] Debug

"Tell me everything" => Give all information for all companies

[#3] About scope

"What companies do you support for Q/A" => Give list of companies supported

"What info do you have" => Tell items and parts for each company supported

[#4] About each supported part and item

"Tell me about the CEO of IBM" => Give info

"Tell me about the the risk factors" => Give info for supported companies

[#5] About chatbot usage

"Give me your usage stats" => Give chat summary info

[#6] Handling others

<User can enter any other text and the program has to handle it> =>

"I do not know this information" or

"Here is my guess - " + <query> + <answer>. "Did I answer correctly?"

Responsibilities for final chatbot

- R1: Obtain content (PA1)
- R2: Data integration and optimization (PA2)
- R3: Handle user interaction (PA3, PA4)
- R4: Show results and statistics (P5)
- R5: Integrate build final system
- R6: Test evaluate system and drive improvements by R1-R5.

Reference

- Prog 1: extract data from the disease [prog1-extractor]
- Prog 2: process it (extracted data) based on questions [prog2processor]
- Prog 3: make content available in a command-line interface [prog3-ui]
- Prog 4: handle any user query [prog4userintent2querymapper]
- Prog 5: report statistics on interaction of a session, across sessions [prog5-sessionlogger]

Project Presenter Name: Student Name:

Queries Snapshot

Scope: Companies, Prog. Language

Data: What data is available and what is retrieved from program?

Code Organization: Anything significant to highlight?

PA1:

PA2:

• • •

PA6: code reuse by someone, and of

someone

Video link:

Experience implementing the chatbot, Testing

Experience with reuse

CSCE 590-1: TRUSTED AI

Course Project Report – Due Last Class

- Introduction
 - Problem // getting financial information
 - Related work
- Solution
 - Scope
 - Design
 - Components // Separate section for P1-P5
 - Selection of best component and Integration process
- Evaluation of the solution
- Discussion
 - Significance
 - Experience building the solution and collaboration
 - Future Work
- Conclusion

About Last Lecture – Lecture 29

Lecture 29: Last Lecture

- Summary of key concepts
- Coping with future trends (including AI)

19	Mar 19 (Tu)	Advanced: Pointers, I/O	
20	Mar 21 (Th)	Advanced: Operator	Prog 4 – end
		overloading	
21	Mar 26 (Tu)	Advanced: Memory	Prog 5 – start
		Management	HW 5 due
22	Mar 28 (Th)	Advanced: Code efficiency	
23	Apr 2 (Tu)	Advanced: Templates	
24	Apr 4 (Th)	AI / ML and Programming	Prog 5 – end
25	Apr 9 (Tu)	Project code summary – student	HW 6 due
		presentation for reuse	Prog 6 – assembling
		Review material for Quiz 2	start
26	Apr 11 (Th)	In class test	Quiz 2 – In class
27	Apr 16 (Tu)	Project presentation	Prog 6 - due
28	Apr 18 (Th)	Project presentation	Last day of class
			(April 22 per
			bulletin)
	Apr 23 (Tu)		Reading Day
29	Apr 25 (Tu)	9am – Final Overview	Examination