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Introduction to Business Programming Reflective Report ISYS2001

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6. **Introduction**

In this report, I reflect on my experiences in the ISYS2001: introduction to Business Programming course. The focus will primarily be on the activity that I found most impactful.

Additionally, a significant portion of my report will be devoted to talking about how AI technologies, specifically OpenAI's ChatGPT, have impacted my academic success in this course. This course's inclusion of AI-driven learning tools changed my view on programming and allowed me to personally see the vast potential of AI in education.

1. Reflective Analysis

Throughout the 13 weeks of lectures and tutorials, the most impactful activity within this course was undoubtedly the first class - the moment we started programming with `print("Hello World")`. It might seem meaningless to others, but for me, it marked a significant milestone - the start of real coding.

Even though I am not yet a master coder capable of building complex programs after these 13 weeks, it has certainly set the foundation for me to understand coding and various Python libraries, such as Pandas, sqlite3, matplotlib, and Newspaper3k, which I just learned. These libraries are all incredibly useful and I believe they will prove beneficial in my future career as a businessman.

Furthermore, this course has enabled me to read and comprehend some simple code, allowing me to understand their function and operations. This is another essential skill set that I can take away from this course, further enhancing my technical literacy in my future career.

At here I would like to focus on the library Pandas and Sqlite3, These two libraries offer a powerful toolkit for a businessman. While Sqlite3 enables for robust data storage and retrieval, Pandas makes it easier to clean, convert, and visualize data. They have helped me to better understand how programming can manage massive datasets, sped up data analysis, and eventually lead to more informed business decisions.

1. Contributions to Understanding of ISYS2001

Understanding the function of programming and data management in the business context was made possible by the ISYS2001 course Introduction to Business Programming. I investigated a number of programming principles, Python libraries, and their applications throughout this course, all of which considerably aided in my quest for a deeper comprehension of the material.

First off, becoming familiar with the popular and potent programming language Python itself made a big difference in my comprehension of how to program for businesses. I learned the structure and basic use of Python, as well as ideas like variables, data types, control structures, functions, and error handling, through exercises and projects.

Second, learning about different Python libraries like Pandas and Sqlite3 provided insights into how programming plays a part in managing business data. Using Sqlite3, I discovered how to communicate with databases and how to edit and analyse data using Pandas. This expertise has been priceless in helping me understand how programming can facilitate business decision-making, increase efficiency, and facilitate data management.

Additionally, the course provided me a taste of how artificial intelligence, through the use of AI-driven technologies like ChatGPT, may support learning and problem-solving. My viewpoint on the potential of AI in business and other areas has been expanded as a result of my exposure to AI applications in education.

1. Conclusion

ISYS2001 has given me the core programming skills I require along with a full comprehension of how to apply those abilities in a professional situation. This knowledge has given me the abilities and perspective I need to apply programming to solve real-world business problems, together with the practical experience I gained throughout the course. I am aware that this course is not the conclusion of my programming; rather, it is a fresh beginning.

1. Appendix: Weekly Journal Entries

Week 1: Introduction to Python

This is my first time learning or studying coding. I've been interested in coding since middle school, but I don't have the opportunity to pursue it as a subject. Therefore, this is the finest chance for me to learn more about coding. The tutor is pleasant and fascinating. In the first tutorial, we discussed ChatGDP, how to use it, and what we can learn from it. Additionally, we have begun using Google Colab. Our first attempt at writing code is print("Hello World"). It was incredible. To sum up, I truly love the class and think it's wonderful. The atmosphere and knowledge offered to us are welcoming to a novice programmer. Can't wait to research this further and learn more about it.

Week 2: Python Object

This week, we began using GoogleColab and Github to see and begin editing some of the code. Some fundamental Python functions, such type(), and some keywords, like if, were introduced during the session. I'm not going to lie; I kind of got lost midway through the tutorial. Talking about type() str int makes me feel lost; I understand what it is, but I'm not sure how to utilise it or link them. In the upcoming lesson, I would really like to learn that. In conclusion, it is still a valuable lesson, and I am eager to get started on some practical work so I can learn more about the areas I am unsure of.

Week 3: Building Blocks

I had a difficult week this week. The tutorial focuses more on how actual commercial applications of coding might be used. Creating a string of random sentences using a straightforward calculator. I had trouble understanding the parts of type(), str, and int last week. This week, using the calculator, I was able to get the purpose and significance of type out of my head. All of the information up to this point has been rather simple work that has honed my reasoning and logic. I hope I will have a real-world assignment to work on. so that I can identify the section that I am now uncertain on.

Week 4: Input Output

we started to build some basic formula/code which can be use for real business world, eg Interest model and Tax calculation. Not gonna lie, this week the tutorial is a bit rush, especially the last part of the tutorial, I don't know how to describe it, but teaching some plugin for Google Collab has potential advantages for all people. It is incredibly fascinating and helpful for both our unit and our careers. It makes sense that the session is moving quickly because the teacher has prepared a tonne of excellent content for us to learn. I actually prefer how this week is flowing. I'm more engaged and stay awake thanks to it. I've been battling with the distinction between str, int, and var for the past week. After explaining the use of "and," it helps me to understand things better. And I can now write better code and logic on my own. but many bugs should still be present.

Week 5: Modules

This week, ChatGPT and Bing are the key topics of discussion. We spent about an hour and a half going over and introducing the GPT. Since it has been available for a little over a year, it is nothing new to me. As a result, I find the lesson on the introduction of these technologies to be somewhat dull. What I would like to accomplish in the tutorial, in my opinion, is more like going over more notebooks and introducing me to more code.

Week 6 Testing

The Journey entry's final week is this week. I've learned how to import some helpful resources that I found online to help with my work. with the aid of my math at work. For my future work, I can clearly understand how to use the def and import functions. I'm excited about the new assignment that will be given starting the next week to test my comprehension of the code from the prior week. The assignments for this week are attached.