

INTRODUCTION

- The tile of the New Case Study for JCSE is "Bookstore Organization"
- The New Case Study for JCSE was given in parallel with Seminar Organization only for student homework
- Very similar to the Seminar Organization, but much simpler and focused only for the needed homework
- It is based on Structural Analysis approach
- Authors of the specification of the New Case Study were students from another course (homework)

CONTENT

- Software Requirements Specification
- Homework assignments
- Student results

SOFTWARE REQUIREMENTS SPECIFICATION

- Application for Bookstore organization
- 1. Goal
 - The product should allow management of books in a bookstore (most popular topics, sales, ...)
 - 1.1 Compulsory goals
 - Selling available books in the bookstore • Adding new book topics
 - 1.2 Optional goals
 Statistical information regarding most popular books
 - 1.3 Exclusion goals
 - Enable online purchase and delivery of books

SOFTWARE REQUIREMENTS SPECIFICATION

o 2. Product usage

- The product will be used as a desktop application on bookstore computers by bookstore clerks for selling books and making purchases
- 2.1 Target groups
 Bookstore employees
- 3. Product functions
 - (There are 15 product functions defied obviously very high level)
 - Eg.:
 - /F10/ Adding new books
 - o /F70/ Searching of a book based on keywords
 - /F140/ Selling selected book

SOFTWARE REQUIREMENTS SPECIFICATION

• 4. Product Data

- /D10/ Book data
 Title, Author, Genre, ISBN, ...
- /D20/ Books on stock
 Quantity, Price, ...
- /D30/ Sold books

 Date, Quantity, Price,...
- 5. Product efficiency
- 6. User Interface
- 7. Quality requirements
- 8. Technical product environment

HOMEWORK ASSIGNMENTS

- Students received only the SRS and were asked to perform the following homework assignments
 - Review the SRS
 - Define complete Functional Tree of the product
 - Define Structure Analysis DFD hierarchy based on the Functional Tree, also give a complementary Data Dictionary
 - Define Class Diagram for the product (Object Oriented Analysis)
 - Define Classification Tree for a selected function defined in the SRS

STUDENT RESULTS

- Homework 1 Review of the SRS
- The students found in average 10 remarks (they were not given a maximum, nor a minimum)
- Maximal number of remarks was 20
- We have not classified the remarks yet to count the total amount
- Average score was:45 (out of 100)

• Conclusion:

• Students should have put more effort in finding more remarks, but without giving a threshold they seem not to look deeply in the document, but merely obvious remarks





STUDENT RESULTS

- Homework 3 Data Flow Diagram and Data Dictionary
- In most of the student submissions the DFD was well organized, it followed the Functional Tree structure, syntactically correct
- Some students lacked the Data Dictionary, in some it was not consistent with the DFD
- Average score was: 77 (out of 100)
- Conclusion:
 - Generally clear concept, some students only submitted the DFD0 and did not have hierarchy











	number of		
grade	students	percentage	cummulative
10	41	29,29%	0,00%
9	10	7,14%	29,29%
8	45	32,14%	36,43%
7	4	2,86%	68,57%
6	2	1,43%	71,43%
5	38	27,14%	72,86%
In total	140	100,00%	100,00%

<section-header> CONCLUSION New case study has successfully been implemented in JCSE We are happy with the final results, although more than 25% of all students have to redo parts of the obligations Final grade isn't realistic because: the grading scheme was presented too early new, rather inexperienced assistants graded the assignments We intend to extend the case study for the next generation, and, of course, to share it with you all ©

