

Phase III: Implementation and Testing

This document has two main sections: (1) Turn-in and Demo Instructions for Phase III and (2) Grading Check List. The first section addresses general instructions on how to turn in the Phase III and on what you should prepare for the demo session. The second section describes *a minimum* set of activities that your system should run successfully.

Turn-in and Demo Instructions

1. Phase III is due on April 22 (Tuesday) night at midnight. You need to email your source code in a tar ball to your TA (the one who graded your Phase I and Phase II).

For heavy weight phase III, please include all of your java source code in the tar ball (you can create a tar ball by using "tar cvf xx.tar source_files", and source_files could be the name of the directory which contains your files). For lightweight, your SQL source files are needed. When you do the demo the TA is going to ftp your code tar ball from his/her account, uncompress it, let you build the code if necessary, and let you execute each task. In this way we can guarantee that the code you use for the demo is the code you finished by the deadline.

The TA email addresses are:

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2. You need to sign up for a demo time. The sign-up sheets will be posted on the instructor's office door (Section A: CCB 137; Section B: CCB 104A; Section C: CCB 139). **Demo dates are from April 23 to April 25.** Please understand that your TAs also have course work so they can only see your demo in the time slots on their sign-up sheets. If you have difficulty finding a convenient time slot you can email your TA. We don't require all the group members come for the demo. But the member(s) do come to demo should be able to show the whole system without any problem.

3. When you show up for your demo, you must be ready to run your program from one of the machines in the CoC states lab where both Linux and MS Windows are available (unless your TA otherwise specified). You'd better talk to your TA beforehand and make sure where the demo will take place. If your program requires some specific platform

and cannot work in public lab, please talk to your TA and get his/her permission to do it using other machines. Please realize that we only have half an hour for each demo and the demos are time constrained, so the set-up phase should be smooth.

4. Test data. We provide the book data file. Each book will have a suggested order quantity and a minimum quantity in stock threshold. Each team should create customer and other data. You should put enough test data into your database in order to do the demo. It is important that you have enough test data (1) to generate reasonable results for each of the scenarios described at the end of this document, and (2) to generate good reports. For example, some of the reports require computing total; in that case you should not only return one data row.

5. During the demo, your TA may interrupt you after you show a task. He/she can use SQLPLUS to check if relevant updates to the database have been made or if the data you extracted matches the query.

6. Hard copies should be turned in when you do the demo:

- SQL Create Table Statements,
- Contents of each Table in your Database,
- Source Code (documented) for your System,
- A short description on your decision on creating index.

7. **"Downgrade" option:** If you are doing a heavy weight version but you cannot seem to make it work, you can extract the SQL code and do it in a light weight way. But in that case you need to take the final.

Grading check list

Heavy weight projects:

We describe 6 different scenarios that your system should complete successfully. Each scenario is presented as a sequence of screens¹. During the demo, the TA may interrupt the execution of each scenario at any moment to check on the current status of the database using SQLPLUS. In addition, be prepared to run any possible variation of each scenario. The search book criteria and the expected results presented in some of the scenarios are based on the sample data available on the class website.

Scenario 1: Browsing User (not registered)

1. Initial Screen (Figure 1)
 - a. Select "Search Only".
 - b. Click "Submit".

¹The figure number in front of each screen name refers to the figures depicted in the "Complete Revised Project" available at the class website.

2. Search Books Screen (Figure 2)
 - a. Enter “Photoshop” for Title.
 - b. Enter “Scott Kelby” for Author.
 - c. Select “Computer” for Category.
 - d. Click “Submit”
3. Search Result Screen (Figure 3)

Note: At least two books should appear in the result list.

 - a. Check the first two books listed.
 - b. Click “Add to Shopping Cart”.
 - c. Click “Manage Shopping Cart”.
4. Manage Shopping Cart Screen (Figure 4)
 - a. Check the first book listed.
 - b. Click “Remove Checked Books”.
 - c. Check the remaining book and change its quantity.
 - d. Click “Update Checked Books”.
 - e. Click “New Search”.
5. Search Book Screen
 - a. Leave Title empty.
 - b. Enter “Nicholas Sparks” for Author.
 - c. Select “All Categories” for Category.
 - d. Click “Submit”.
6. Search Result Screen

Note: At least four books should appear in the result list.

 - a. Check the first book on the list.
 - b. Click “Add to Shopping Cart”.
 - c. Click “Manage Shopping Cart”.
7. Manage Shopping Cart Screen
 - a. Check the recently included book and change its quantity.
 - b. Click “Update Checked Books”.
 - c. Click “Checkout”.
8. Customer Registration Screen (Figure 5)
 - a. Enter customer information.
 - b. Click “Register”.
9. Confirm Order Screen (Figure 7)
 - a. Click “Buy it!”
10. Proof of Purchase Screen (Figure 9)

Scenario 2: New Customer

1. Initial Screen
 - a. Select “New Customer”.
 - b. Click “Submit”.
2. Customer Registration Screen (Figure 5)
 - a. Enter the customer information
 - b. Click “Register”.
3. Search Book Screen

- a. Click “Exit Online Bookstore”.

Scenario 3: Returning Customer (Part I)

1. Initial Screen
 - a. Select “Returning Customer”.
 - b. Click “Submit”.
2. User Login Screen (Figure 10)
 - a. Enter the username/PIN registered in Scenario 1.
 - b. Click “Login”.
3. List of Suggested Books Screen (Figure 11).
4. *Select a book and purchase all its available quantity in stock. This book could be one from the suggested list or another that customer selects from a search result list.*

Scenario 4: Returning Customer (Part II)

1. Initial Screen
 - a. Select “Returning Customer”.
 - b. Click “Submit”.
2. User Login Screen (Figure 10)
 - a. Enter the username/PIN registered in Scenario 2.
 - b. Click “Login”.
3. List of Suggested Books Screen
4. *Select a book and purchase all its available quantity in stock. This book could be one from the suggested list or another that customer selects from a search result list.*

Scenario 5: Administrator – Placing Orders

1. Initial Screen
 - a. Select “Administrator”.
 - b. Click “Submit”.
2. User Login Screen (Figure 10)
 - a. Enter username and PIN for the administrator.
 - b. Click “Login”.
3. List of Administrator Tasks Screen (Figure 12)
 - a. Click “Place Orders”.

Note: There should be at least two orders that need to be placed that were generated by Scenario 3 and Scenario 4.

Scenario 5: Administrator – Managing the Bookstore Catalog

1. *Insert a new book B.*
2. *Update B.*
3. *Remove B.*

Lightweight projects:

For the lightweight project, each group should be able to run SQL statements that perform *at least* the following activities:

1. Search books using conditions on book title, author, and/or category.
2. Register new customer.
3. Purchase a book with quantity large than one.
4. List all books that need to be ordered.
5. Place the orders and then run '4' again to verify if the orders were completed correctly.
6. Insert, update, and remove a book.

About the Reports:

For both heavyweight and lightweight projects, the groups must be able to generate all reports. It is important that each group “plays” with the system long enough before the demo, so that good reports can be generated at demo time.