

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 July 21, 2003 (Monday) night at midnight. You need to email your source code in a tar ball to your TA (the one who graded your 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:

Woo Yong Lee (wooylee@cc.gatech.edu)
Ying Liu (yingliu@cc.gatech.edu)
Wanxia Xie (wanxia@cc.gatech.edu)
Yi Ma (mikema@cc.gatech.edu)

2. You need to sign up for a demo time. The sign-up sheets will be posted on the Database Lab's door (CCB 104A). **Demo dates are from July 23 to July 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 one hour for each demo and the demos are time constrained, so the set-up phase should be smooth.

4. Test data. We provide the job search data file. Each team should load ALL the data in the file and create any other data they may need. You should put enough test data into your database in order to do the demo. It is important that you have enough test data to generate reasonable results for each of the scenarios described at the end of this document.

5. During the demo, your TA may interrupt you after you show a task. He 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,
- A short description on your decision on creating index.

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 screens. 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: Logon Existing User (No Resume)

1. Login Screen (Figure 1)
 - a. Enter username “ebaily”
 - b. Enter password “seeker02”.
 - c. Click “Submit”.
 - d. Password Error Message (Figure 2) should appear.
2. Login Screen (Figure 1)
 - a. Enter username “ebaily”
 - b. Enter password “seeker01”.
 - c. Click “Submit”.
 - d. Main Screen (Figure 6) should appear with:
 - i. Welcome message
 - ii. The list of jobs should be empty!
3. Exit

Scenario 2: Search and Apply for Job (No Resume)

1. Logon Job Seeker “ebaily” (Figure 1)
2. Click Search
 - a. Search Screen (Figure 7) should appear
 - b. Enter “Computer Scientist” in the Job Title field
 - c. Click “Submit”.
 - d. Main Screen (Figure 6) should appear with two jobs
3. View a job’s detail by clicking on the text of the Job Title.
 - a. The Job Detail Screen should appear with the information that was provided in the Excel File.
 - b. Note: Filled should be zero.
 - c. Click “OK”
 - d. Main Screen (Figure 6) should reappear with two jobs
4. Click Search
 - a. Search Screen (Figure 7) should appear
 - b. Leave all fields blank
 - c. Click “Submit”.
 - d. Main Screen (Figure 6) should appear with 6 jobs
 - e. Click “Select All”
 - i. All checkboxes should be marked
 - f. Click “Clear All”
 - i. All checkboxes should be cleared
 - g. Click “Select All”
 - i. All checkboxes should be marked
 - h. Click Apply for Selected
 - i. Main Screen (Figure 6) should appear with 0 jobs listed
5. Exit

Scenario 3: Update Resume (Existing User - No Resume)

1. Login Screen (Figure 1)
 - a. Enter username “tbrittan”
 - b. Enter password “seeker02”.
 - c. Click “Submit”.
 - d. Main Screen (Figure 6) should appear with:
 - i. Welcome message
 - ii. The list of jobs should be empty!

2. Click Update Resume
 - a. The Resume Update Screen (Figure 9) should appear
 - i. Enter text in the objective field
 - ii. Enter desired salary of \$42,000
 - iii. Click “Next >>”.
 - b. An **empty** Resume Update – Education screen (Figure 10) should appear
 - i. Click “New Entry”
 - ii. The Education Entry screen (Figure 11) should appear
 - iii. Enter information with “Bachelor's Degree” for Degree and “Computer Science” for Degree Area.
 - iv. Click Submit.
 - c. The Resume Update – Education screen (Figure 10) should appear with the newly entered information.
 - i. Click “Next >>”
 - d. An **empty** Resume Update – Experience screen (Figure 12) should appear
 - i. Click “New Entry”
 - ii. The Experience Entry screen (Figure 13) should appear
 - iii. Enter information with “Computer Scientist” for Job Title.
 - iv. Click Submit.
 - e. The Resume Update – Experience screen (Figure 12) should appear with the newly entered information.
 - i. Click “Next >>”
 - f. An **empty** Update Skill screen (Figure 14) should appear
 - i. Check several skills with “Java”, “XML”, and “Cobol” being among them.
 - ii. Click Finished

3. Main Screen (Figure 6) should appear with 6 jobs listed
 - a. 4 Jobs should have an X in the salary column
 - b. 5 Jobs should have an X in the Education column
 - c. 2 Jobs should have an X in the Experience Field
 - d. 4 Jobs should have an X in the Skills Field

4. Apply to all jobs except the Electrical Engineering job.
 - a. Main Screen (Figure 6) should appear with the Electrical Engineering job listed

5. Exit

Scenario 4: Manage Application (Existing User - Resume)

1. Login Screen (Figure 1)
 - a. Enter username “tbrittan”
 - b. Enter password “seeker02”.
 - c. Click “Submit”.
 - d. Main Screen (Figure 6) should appear with:
 - i. Welcome message
 - ii. **The list of jobs should list 1 job (Electrical Engineering)!**
2. Click Manage Application
 - a. The Application screen (Figure 8) should appear with 5 jobs all unfilled
 - i. Display a jobs detail
 - ii. View a job’s detail by clicking on the text of the Job Title
 - iii. Note: Filled should be zero.
 - iv. Click “OK”
 - b. Application Screen (Figure 8) should reappear with 5 jobs
 - c. Click Main Screen
3. Main screen (Figure 6) should appear with 1 job listed (Electrical Engineering)
4. Click Exit
5. Execute query on the database to mark the Chemical Engineering job as “Filled”
6. Logon again as “tbrittan”
 - a. Main Screen (Figure 6) should appear with 1 job listed (Electrical Engineering)
7. Click Manage Application
 - a. The Application screen (Figure 8) should appear with 5 jobs. All the jobs will be unfilled except the “Chemical Engineering job.”
 - i. Select the Chemical Engineering job
 - ii. Click “Delete Selected”
 - iii. The Application screen should reappear with the “Chemical Engineering” job removed from the list.
 - iv. Click Main Screen
8. Main Screen (Figure 6) should appear with 1 job listed (Electrical Engineering)
9. Click Exit

Scenario 5: New Job Seeker Registration

1. Login Screen (Figure 1)
 - a. Click “New User”
2. Registration Screen (Figure 3) should Appear
 - a. Enter your information with username “ebaily”
 - b. Enter e-mail “ebaily@needjob.com”.
 - c. Click “Register”.
 - d. Username Error Message (Figure 4) should appear.
 - e. Click “OK”
 - f. Enter username as “student1”
 - g. Click “Register”
 - h. E-Mail Error Message (Figure 5) should appear.
 - i. Click “OK”
 - j. Enter new email student1@needjob.com
 - k. Click “Register”
 - l. Main Screen (Figure 6) should appear with:
 - i. Welcome message
 - ii. The list of jobs should be empty!
3. Exit

Scenario 6: Update Profile (Existing User - No resume)

1. Logon as “student1”
 - a. Main Screen (Figure 6) should appear with zero jobs listed
2. The Update Profile Screen (Figure 15) should appear.
 - a. Update the First and Last Name and any other information the TA requires.
 - b. Click Update
 - c. The Main Screen (Figure 6) should appear with: should appear with:
 - i. Welcome message with new name.
 - ii. Zero jobs should be listed.
3. Click Exit

Lightweight projects:

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

1. Find Job Poster's information given a Username and Password
2. Find Job Seeker's information given a Username and Password
3. Insert a new Job Seeker into the Database
4. Update Job Seeker's Profile
5. Enter different components of the Job Seeker's resume
 - a. Objective
 - b. Salary
 - c. Education
 - d. Experience
 - e. Skill
6. Display different components of the Job Seeker's resume
 - a. Objective
 - b. Salary
 - c. Education
 - d. Experience
 - e. Skill
7. Display List of Jobs that are in the Database
8. Display List of Jobs Index against the Job Seeker's Resume that are not filled for which the Job Seeker has not submitted an application.
 - a. Salary
 - b. Education
 - c. Experience
 - d. Skills
9. Apply For a Job
10. Display list of Jobs for which the Job Seeker has applied.
11. Delete an application given a "username" and "job-id"
12. Search for job by Job Title, Company Name, Salary, and Location.