CS 166: Project Description

Phase 3 Description

In this phase, you are given scripts to create a database schema that implements a slightly simpler version of the ER diagram given to you in phase 2 of the project. Additionally, you are given a set of dummy data, scripts to load the data in DB, and some Java code that can be used to build your client application.

Your client application must implement the following functionality using the given schema:

• Add Ship: Ask the user for details of a Ship and add it to the DB

• Add Captain: Ask the user for details of a Captain and add it to the DB

• Add Cruise: Ask the user for details of a Cruise and add it to the DB

• Book Cruise: Given a customer and Cruise that he/she wants to book, determine the status of the reservation (Waitlisted/Confirmed/Reserved) and add the reservation to the database with appropriate status.

• List number of available seats for a given Cruise: Given a Cruise number and a departure date, find the number of available seats in the Cruise.

• List total number of repairs per Ship in descending order: Return the list of Ships in decreasing order of number of repairs that have been made on the Ships.

• Find total number of passengers with a given status: For a given Cruise and passenger status, return the number of passengers with the given status.

Groups that implement systems with user-friendly interfaces, extra functionalities will receive extra credit. Any additional functionality must be explicitly described in the README file and pointed out to the TA during demo to receive extra credit.

2 Submission

You should submit the documentation and final source code on iLearn. The deadline has been extended and now you will have till Friday March 19th to upload your projects on iLearn. Please note, you must demo your code to the TA either on March 20th or 21st . A spreadsheet will be shared closer to the deadline for the demo. Rubric: 120 points completeness and correctness, 15 points for error handling (for example, handle incorrect data input), and 15 points documentation (readme file and comments).