

Lab Map

The Lab Map software, developed by Please Hire Me, is a lab organizational tool that manages lab testing hardware. This software will allow users to login, access a lab region, claim a tester, display tester information, edit tester information, see maintenance info, submit a maintenance request, and display information about current and future staff shifts.

Installation

- Java will need to be installed and updated
- Lab Map runs on a local database, which will need to be configured prior.
 - Csv files will be provided
- Lab Map files must be downloaded from Github and configured with a local database.
 - GithubLink: <https://github.com/nthornton00/CS370Project>
 - Access the file:
CS370Project/CS370_Project/src/Details/establish_connection.java
 - (if needed) update the “CONNECTION” variable with the URL of the “labmap” database. (Line 9)
 - On lines 21-22 update your MySQL credentials for the username/password .
- Run the project by executing the main_menu.java file
(CS370Project/CS370_Project/src/gui/main_menu.java)

Functions

Logging in

- Enter the username and password of an existing user
- If login is successful, the program will prompt the user to the lab map window (main menu).
- If the login is unsuccessful, the program will prompt the user to re enter their credentials until a successful login occurs, or the user exits the program.

LabMap Window

- Displays a visual of the available testers for the selected region.

- Also displays the following functions: “Account,” “Maintenance,” “Change Region,” “Shift Staffing,” and “Help.”

Account

- User Info:
 - Displays the name, role, and project of the current user.
- Logout:
 - Logs out the current user and redirects the user back to the login page.

Maintenance

- Active Requests
 - Shows active maintenance requests for a tester.
- History Log
 - Shows a history log of all maintenance requests made.
- Send Requests
 - Allows a user to log and send a maintenance request.

Change Region

- Will display a list of the laboratory regions.
- Clicking on a region will update the window with the contents of the respective region.

Shift Staffing

- This function will prompt the user to choose between two options: “Current Shift” and “Next Shift”
- “Current Shift” displays current staff shifts.
- “Next Shift” displays upcoming staff shifts.
- When clicking on either of the two options, the program will display a window with a table of all the available staffing for that shift.
- The table will have the following columns: “Id” (user ids), “Name” (Name of the staff), “Role” (Role of the staff member), Region (Region assignment to the staff member).

Help

- Upon clicking the “Help” function, a drop down menu appears with an “About” button.
- When the “About” button is pressed, a user manual will appear to explain the software’s functions.

Testers

- Clicking on a tester displays the current tester details:
 - Tester Name
 - Tester Project
 - Peripheral
 - Devices
 - Manufacturing Lot
 - Device Quantity
 - Staff Name and Role
- Allows the option to modify tester details.
 - Insert a new device name and assign a new peripheral.
 - Click the “Modify Details” button to successfully modify the tester.
- Allows the user to return the device.
- Allows users to claim a tester for use.

How To Close Software

- Lab Map can be closed by:
 - Pressing Exit on the Login Screen.
 - Pressing the close (“X”) button on the top of the software window.