

# 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.

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## 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 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 labmap window (main menu).
- If the login is unsuccessful, the program will prompt the user to reenter 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 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 option to modify tester details.
  - Insert a new device name and assign a new peripheral.
  - Click “Modify Details” button to successfully modify the tester.
- Allows user to return device.
- Allows user 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.