RED EYE RESERVATION AUTOMATION

CS5200-DATABASE MANAGEMENT SYSTEMS-PROJECT

PROJECT TEAM

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PROBLEM STATEMENT

- To create a centralized shuttle service system which will provide ease of access to the students and organizers of the service.

CURRENT SYSTEM:

- The red eye system involves shuttle arriving for pick up every 30 minutes and students standing in queue for the same at Snell library.
- Since the seats in the shuttle are limited to 10, most students have to go back to the library or wait for 30 more minutes for next shuttle. this becomes extremely inconvenient especially when it snows.
- As students enter the shuttle they are supposed to identify themselves with the NEU ID and inform the driver about the drop point.
- After getting information from all students the driver calls his superior to inform about the number of students and their destinations.

PROPOSED SOLUTION

- Our portal allows students to login with their credentials and book the time they wish to avail the red eye service.
- The student while booking provides the destination he wishes to go to.
- He/she can cancel the booking up to 15 minutes before his/her travel time.
- There will be an additional wait-list of 10 students who can go in the shuttle if there is any cancellation.
- The driver gets a list of all students who are going to travel 10 minutes before the schedule time. this way he does not need to check student id, ask for destinations or inform his superior about the details of the travel since all this will be managed by the system.
- This system ensures students and drivers both don't have to go through the trouble which they have to now.

LIST OF ACTORS AND USE CASES

- Actors:

  NUPD(Northeastern Police Department)

  Student

  Driver

- Use Cases:

  Register for a ride at a given time

  Request waitlist slot

  Cancel ride

  Waitlist cleared confirmation

  Monitoring driver information

  Monitor details about vehicle

  Monitoring student information

  Notify about absence of student

  Notify on the spot addition to the ride

  Update driver/vehicle information

  Penalizing students for absence during ride

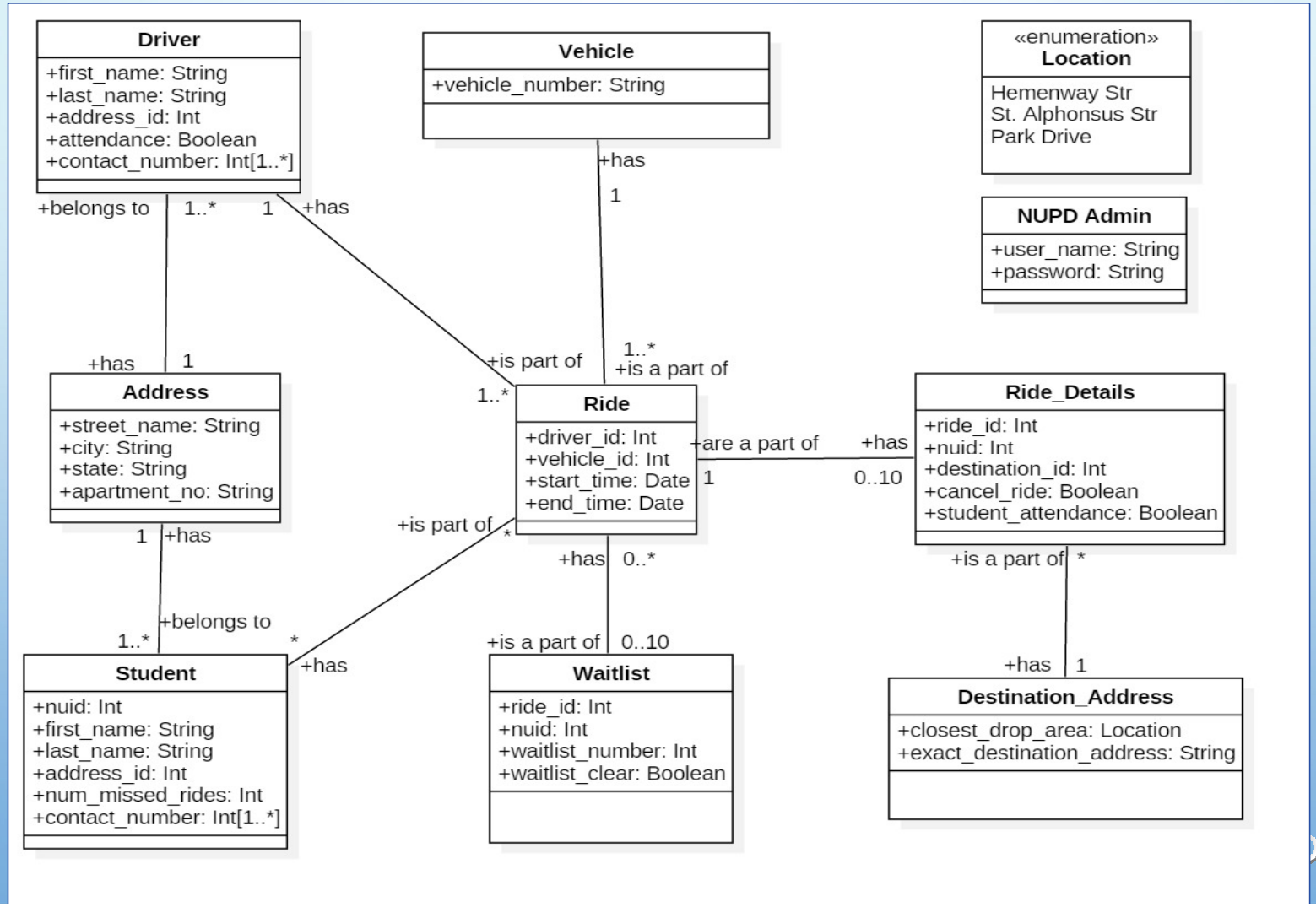
  Notify start of ride

  Notify end of ride

TECHNOLOGY

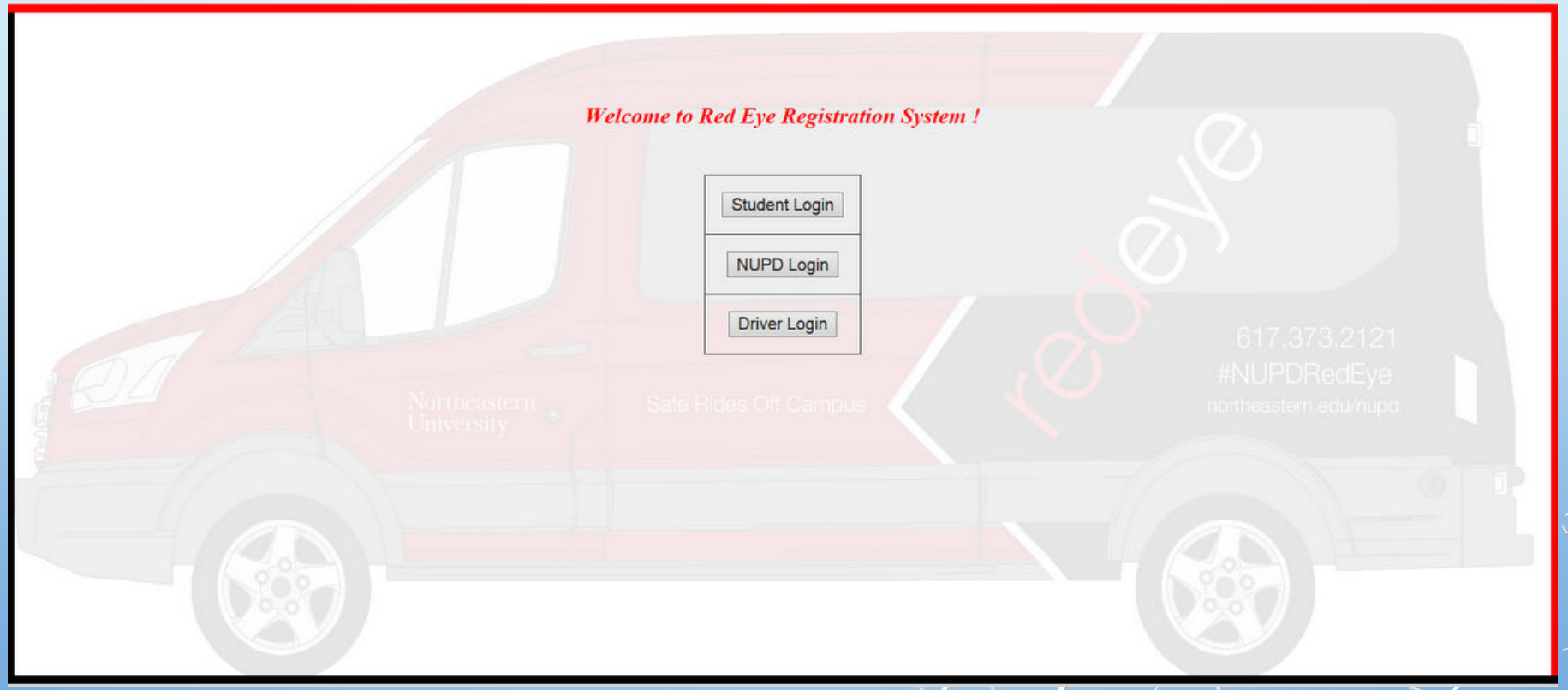
- Technologies used: Servlets
- Front end : HTML,CSS,JSP
- Backend : MySQL

CLASS DIAGRAM

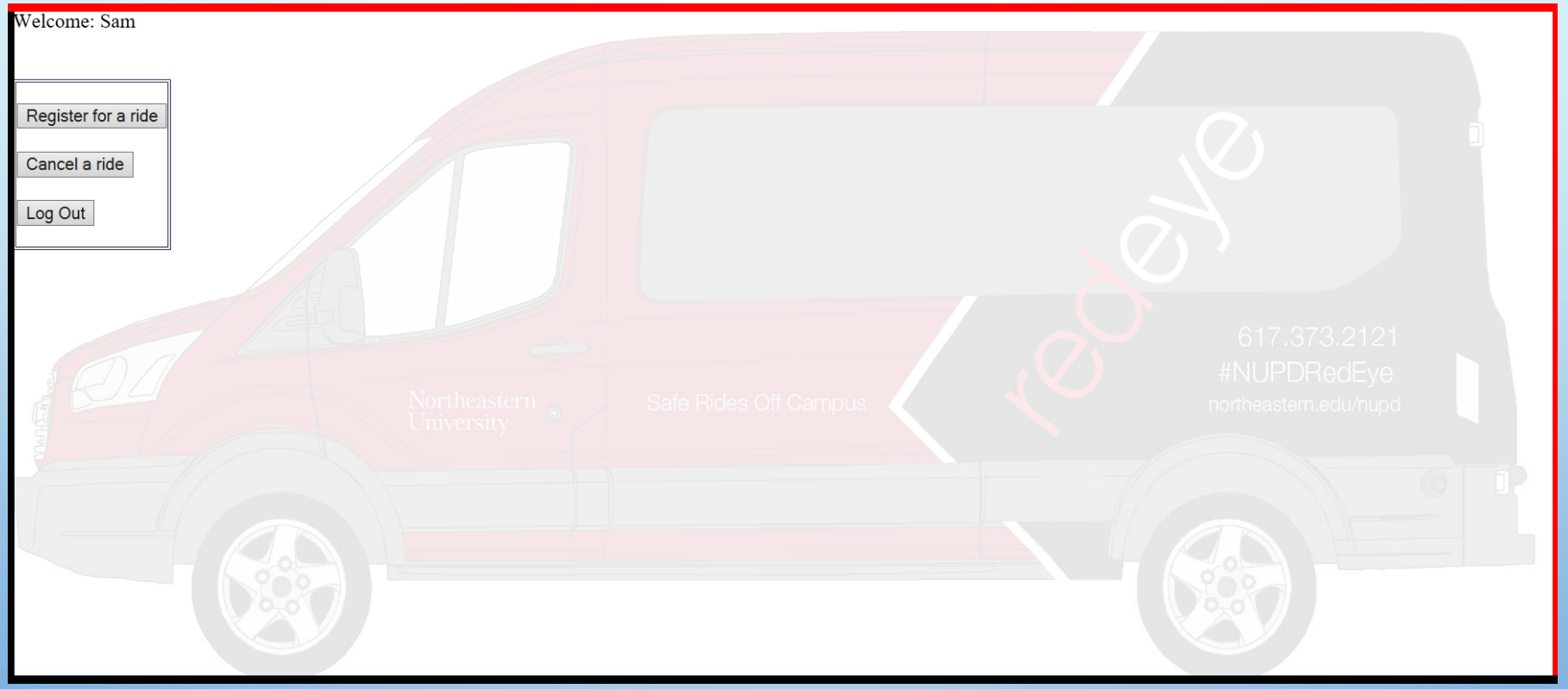


SCREEN SHOTS

LOGIN FOR SYSTEM

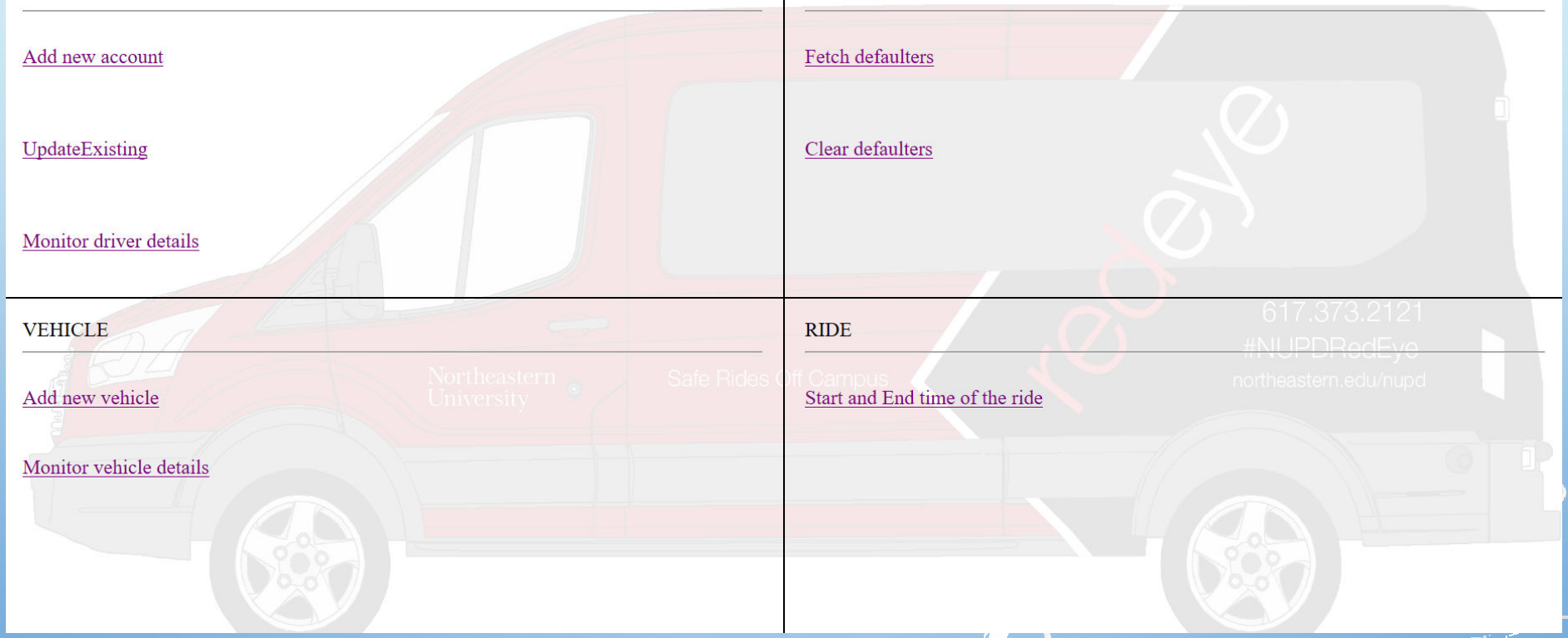


FUNCTIONALITY OF STUDENT MODULE

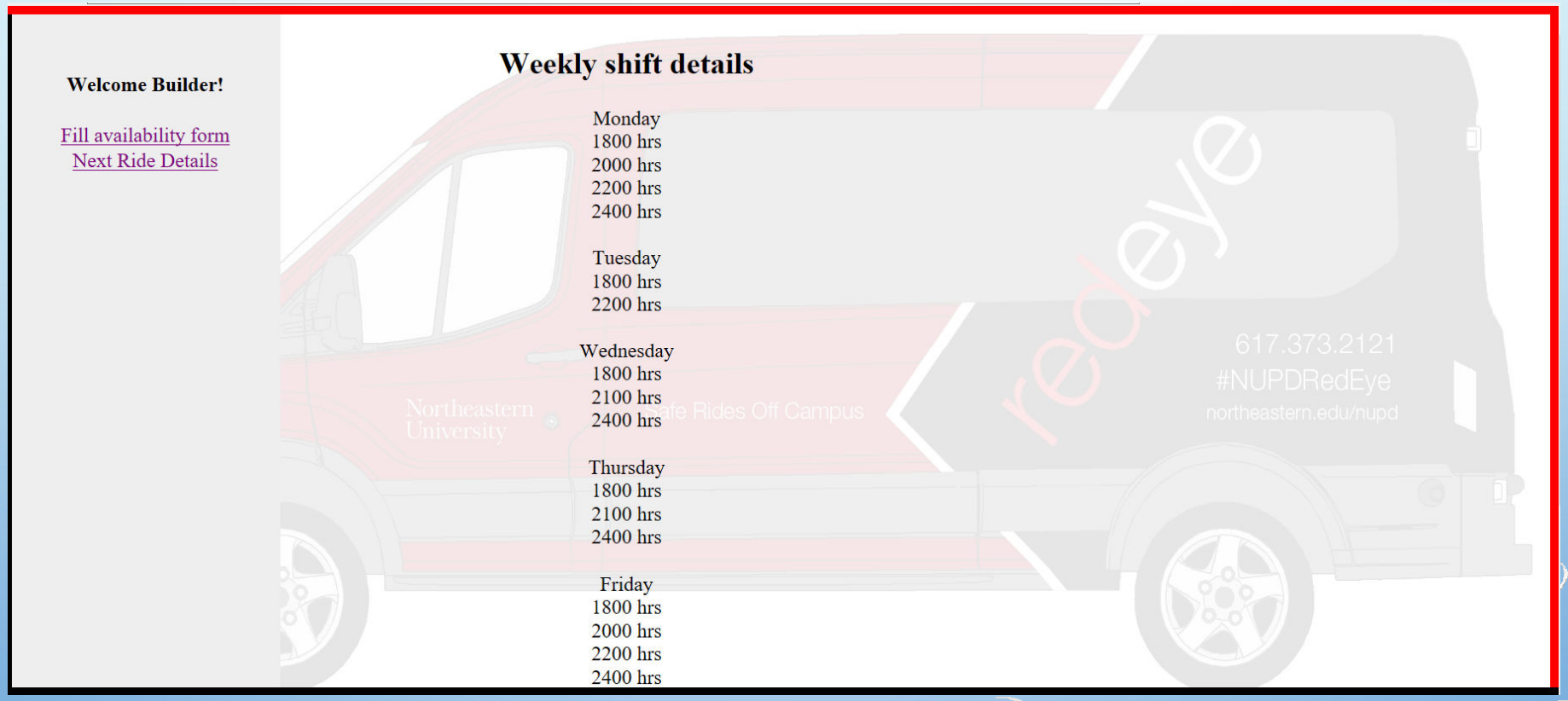


FUNCTIONALITY OF NUPD MODULE

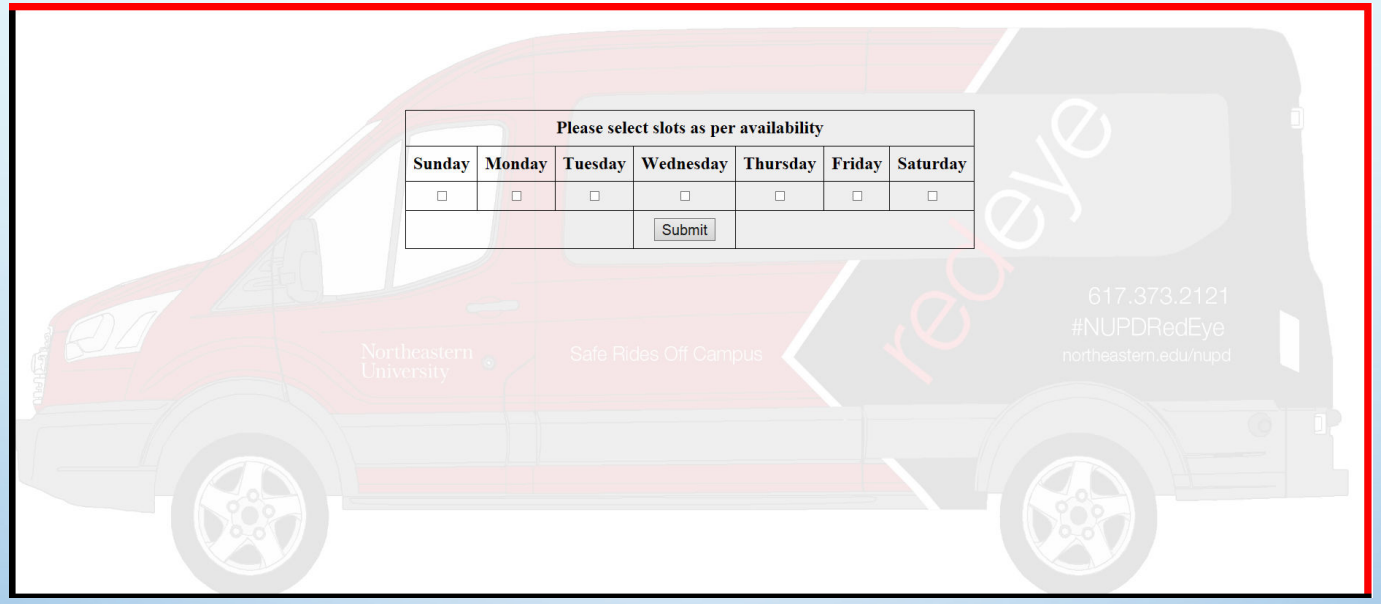
DRIVER	STUDENT
Add new account	Fetch defaulters
UpdateExisting	Clear defaulters
Monitor driver details	
VEHICLE	**RIDE**
Add new vehicle	Start and End time of the ride
Monitor vehicle details	

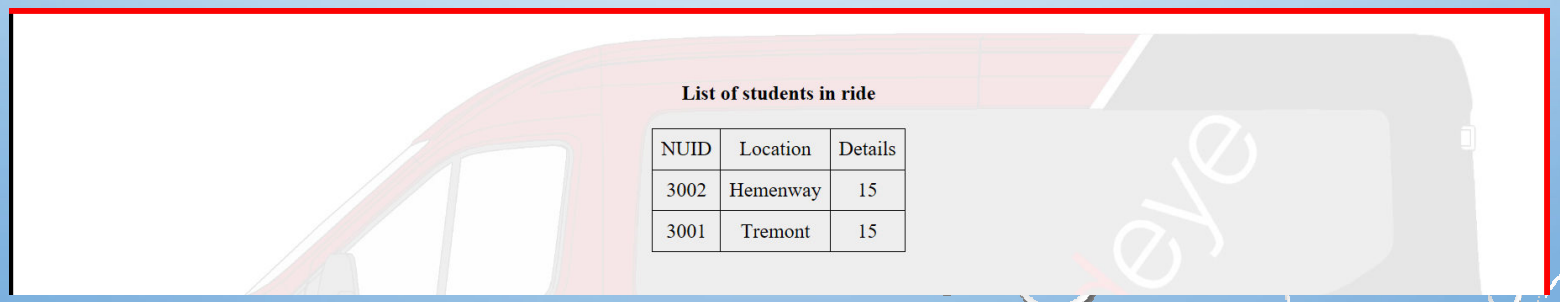


FUNCTIONALITY OF DRIVER MODULE



FUNCTIONALITY OF DRIVER MODULE





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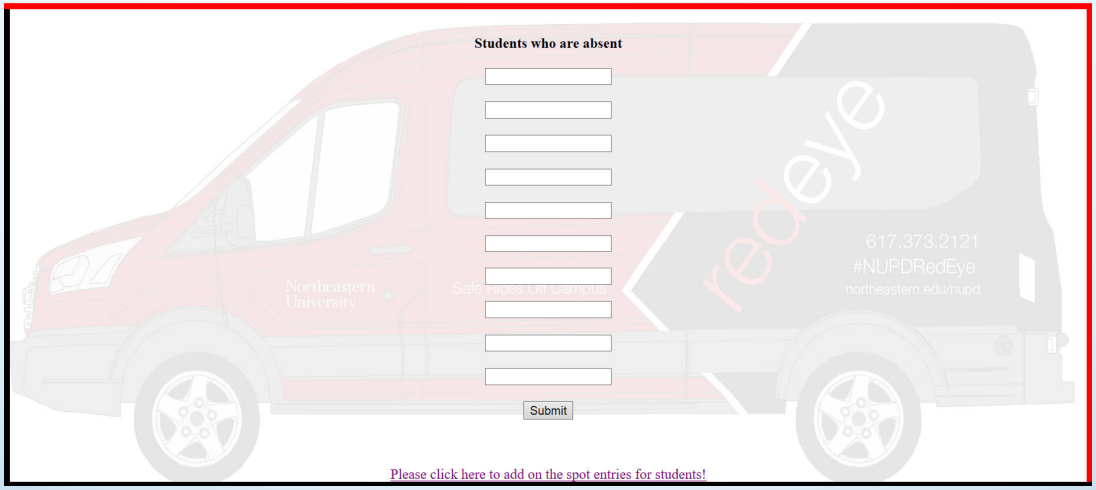

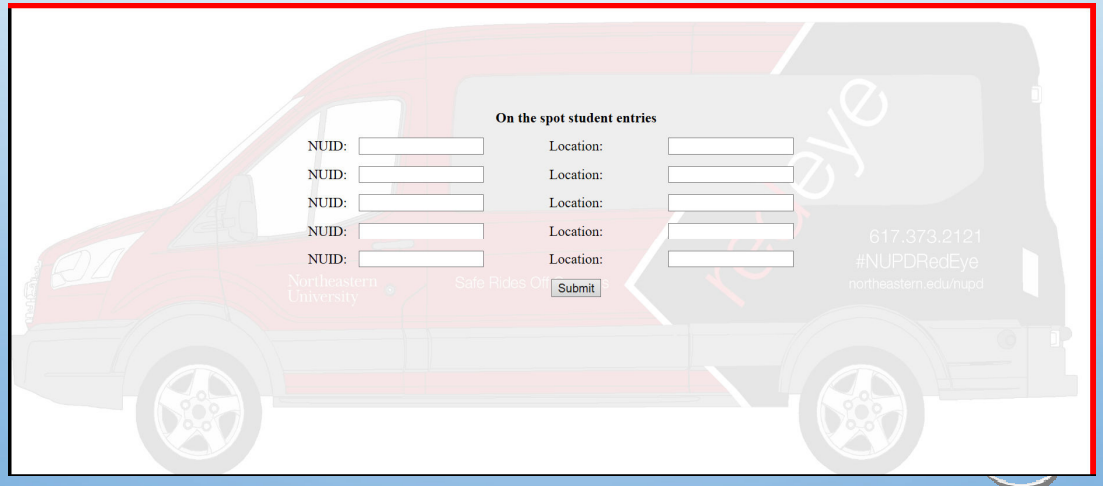

REFERENCES

- MOST OF THE PROGRAMMING IN JAVA WAS DONE BY REFERRING **"DATABASE DESIGN AND IMPLEMENTATION BY EDWARD SCIORE".**

- FOR TROUBLESHOOTING ISSUES WITH THE PROGRAM WE REFERRED ONLINE FORUMS LIKE –
  - HTTP://DOCS.ORACLE.COM/JAVAEE/6/TUTORIAL/DOC/BNAFD.HTML
  - HTTPS://DOCS.ORACLE.COM/JAVAEE/5/TUTORIAL/DOC/BNAGX.HTML
  - HTTP://WWW.W3SCHOOLS.COM/HTML/DEFAULT.ASP
  - HTTP://WWW.CODERANCH.COM/FORUMS/F-50/JSP
  - HTTP://WWW.TUTORIALSPOINT.COM/JSP/
  - HTTP://STACKOVERFLOW.COM/

- WE HAVE UPLOADED THE SOURCE CODE, REPORT AND PRESENTATION FOR OUR PROJECT AT THE FOLLOWING LOCATIONS-
  - SOURCE CODE - HTTPS://GITHUB.CCS.NEU.EDU/SHENOYP/DBMS_PROJECT.GIT
  - REPORT – HTTPS://DOCS.GOOGLE.COM/DOCUMENT/D/1V3EPZ4HS7P_SLZDHY6C4SFV-VBSPW_8410_7AW0-JBS/EDIT?USP=SHARING
  - PRESENTATION- HTTPS://DOCS.GOOGLE.COM/PRESENTATION/D/1NCXCHAYPI0TR3CSQOJD4BG5NCO2FCQBKTMJZL_UEFX0/EDIT?USP=SHARING