

The background is a light blue gradient with several white, stylized bubbles of various sizes scattered across it. The bubbles have thin black outlines and some have small white highlights inside, giving them a 3D effect.

# RED EYE RESERVATION AUTOMATION

CS5200-DATABASE MANAGEMENT SYSTEMS-PROJECT

# PROJECT TEAM

## Team Member1

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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

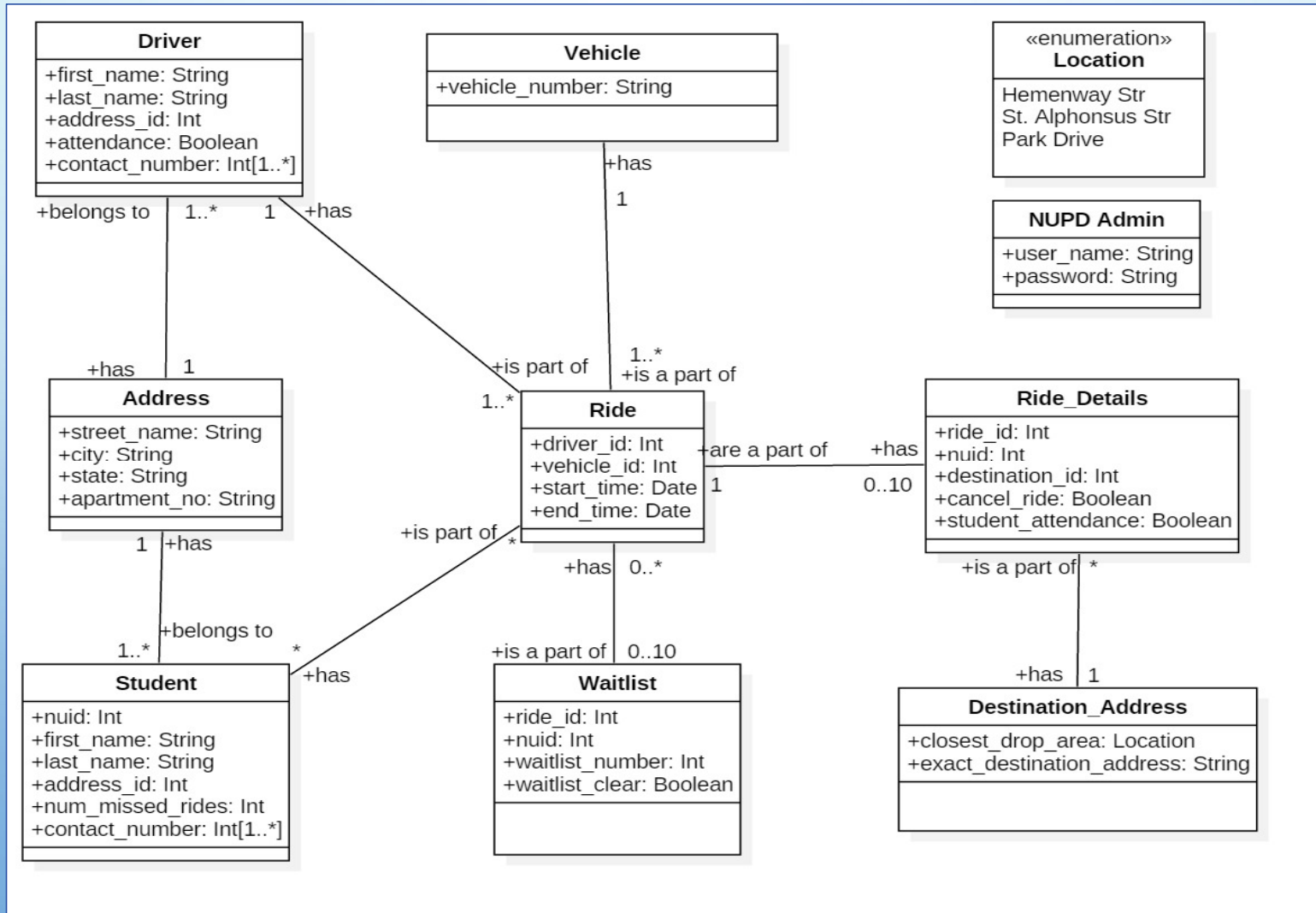
# TECHNOLOGY

☐Technologies used: Servlets

☐Front end : HTML,CSS,JSP

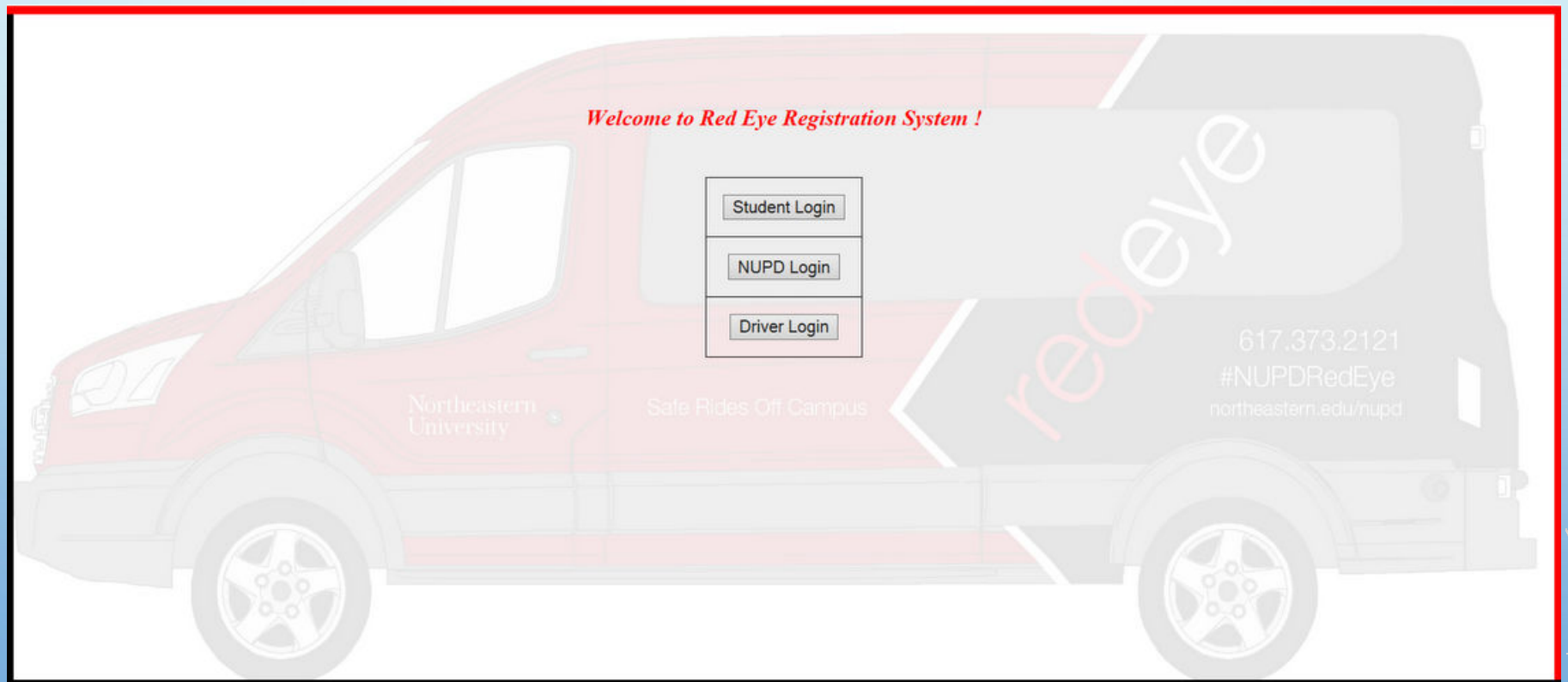
☐Backend : MySQL

# CLASS DIAGRAM



# SCREEN SHOTS

## LOGIN FOR SYSTEM





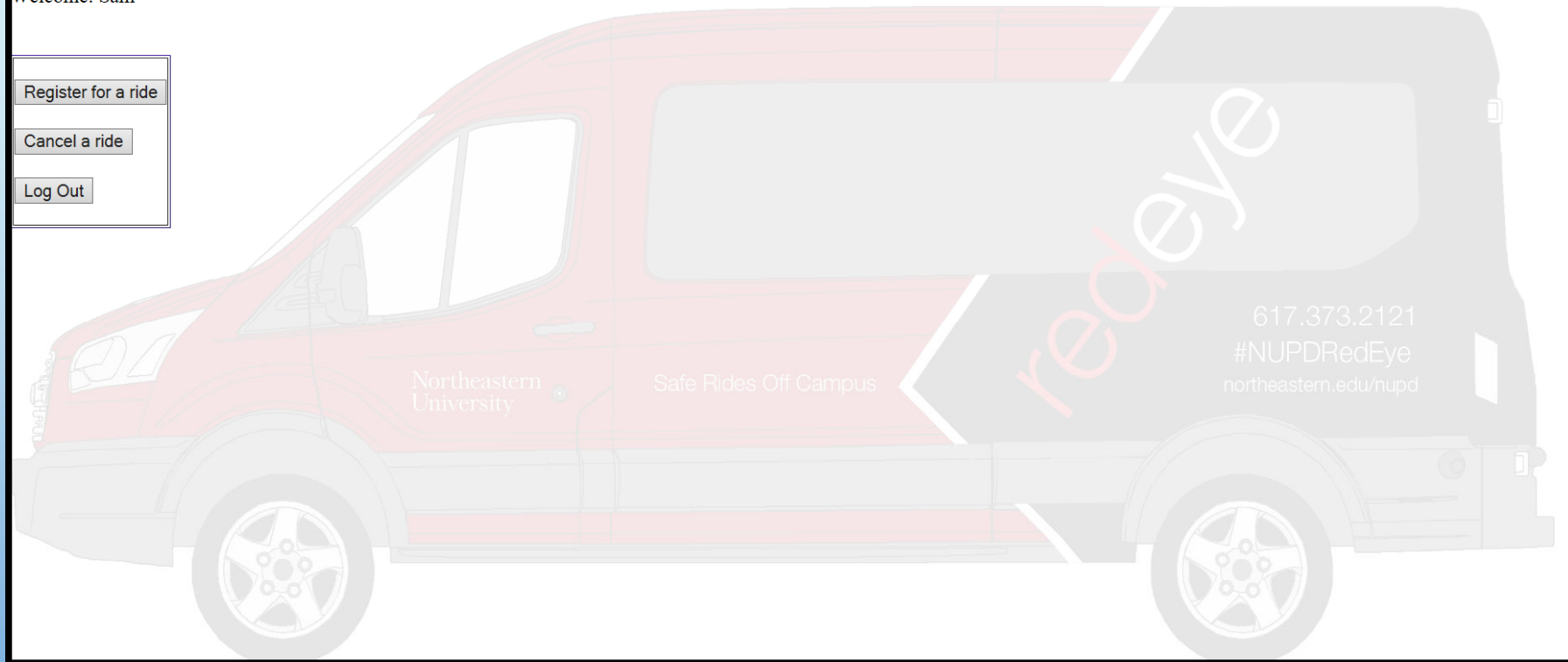
## FUNCTIONALITY OF STUDENT MODULE

Welcome: Sam

Register for a ride

Cancel a ride

Log Out



## FUNCTIONALITY OF NUPD MODULE

### DRIVER

[Add new account](#)

[UpdateExisting](#)

[Monitor driver details](#)

### STUDENT

[Fetch defaulters](#)

[Clear defaulters](#)

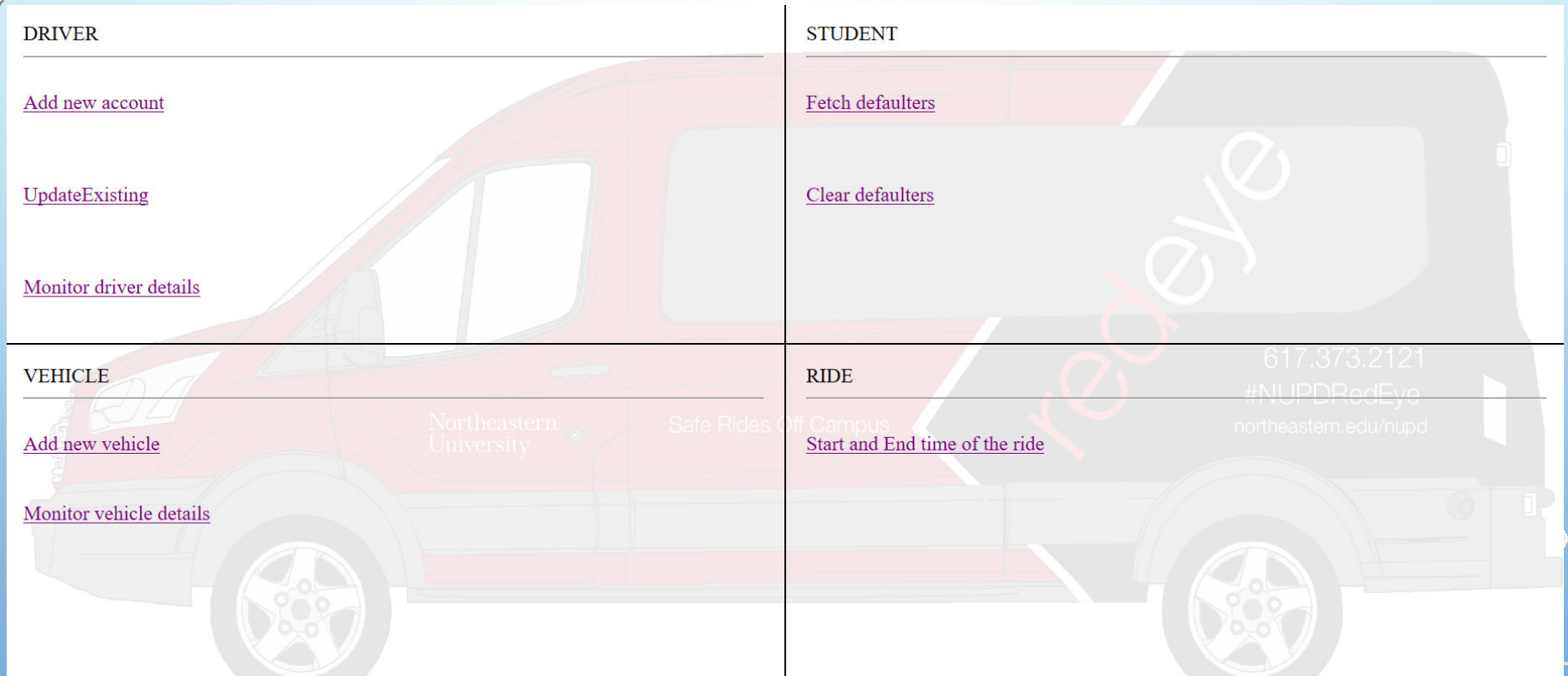
### VEHICLE

[Add new vehicle](#)

[Monitor vehicle details](#)

### RIDE

[Start and End time of the ride](#)



## FUNCTIONALITY OF DRIVER MODULE

**Welcome Builder!**

[Fill availability form](#)

[Next Ride Details](#)

### Weekly shift details

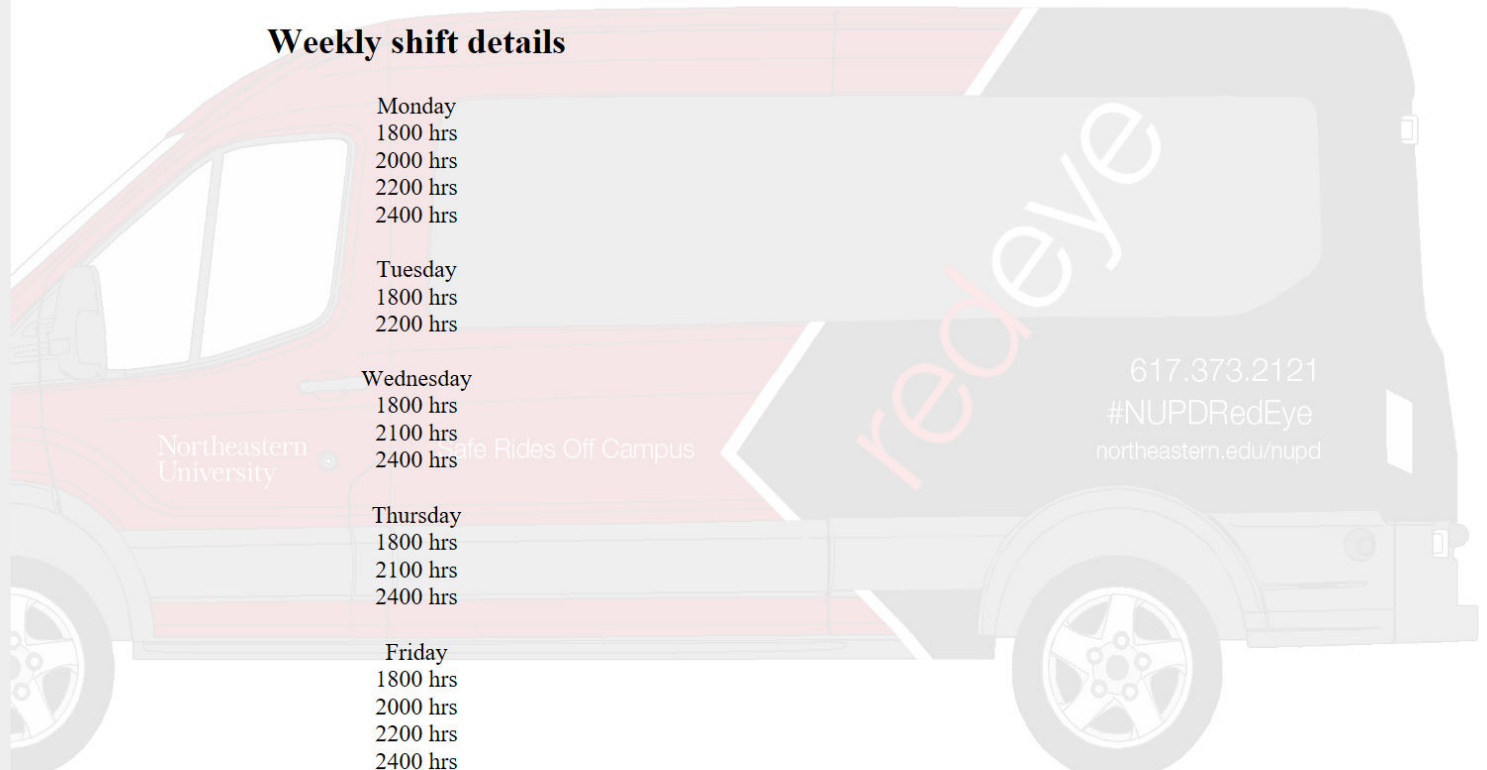
Monday  
1800 hrs  
2000 hrs  
2200 hrs  
2400 hrs

Tuesday  
1800 hrs  
2200 hrs

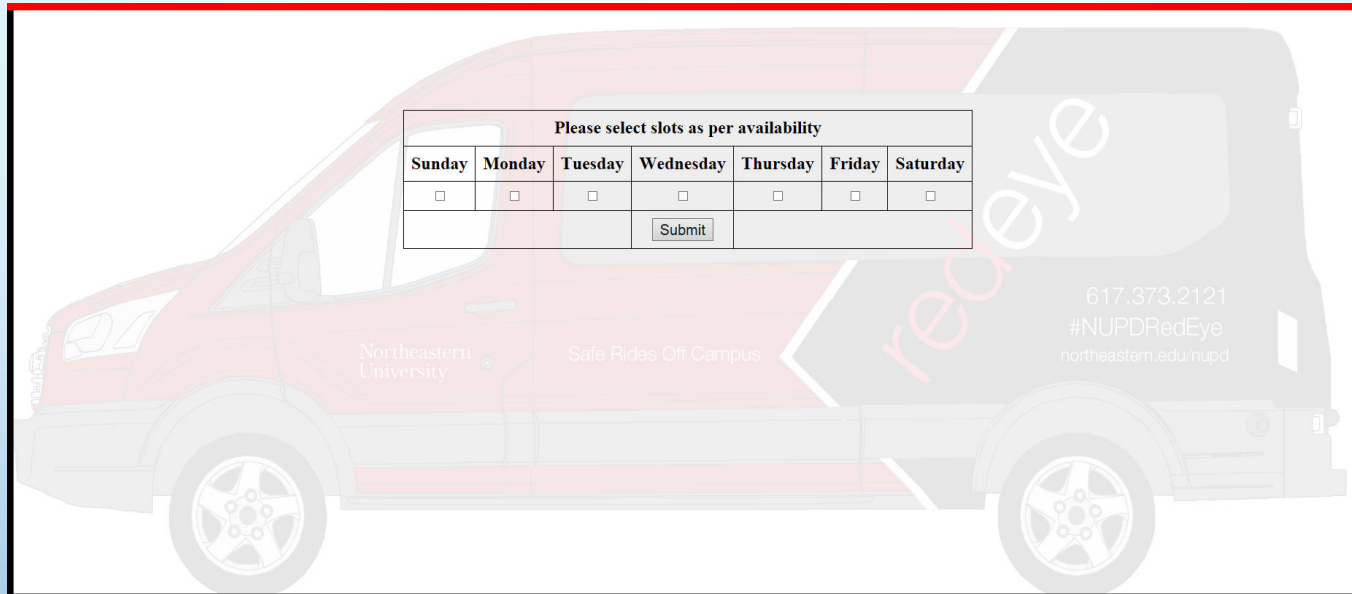
Wednesday  
1800 hrs  
2100 hrs  
2400 hrs

Thursday  
1800 hrs  
2100 hrs  
2400 hrs

Friday  
1800 hrs  
2000 hrs  
2200 hrs  
2400 hrs



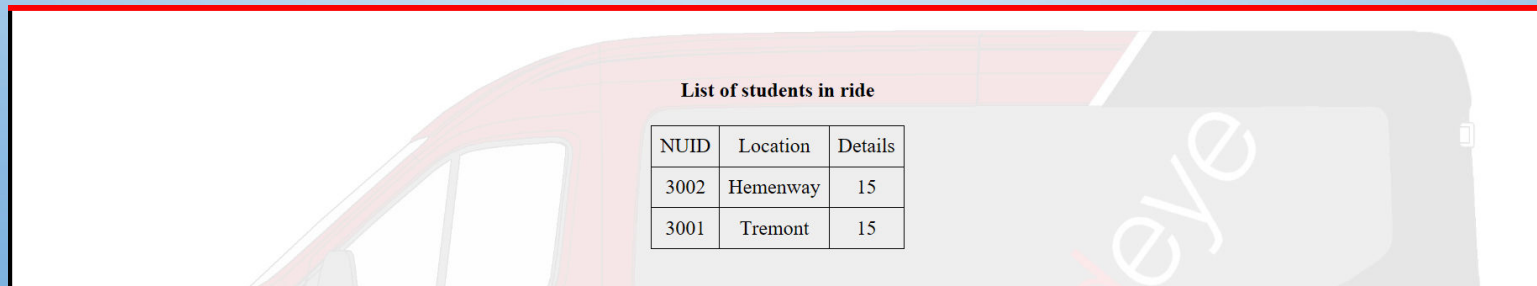
## FUNCTIONALITY OF DRIVER MODULE



The screenshot displays a side view of a red SUV with "Northeastern University" and "Safe Rides Off Campus" branding. A semi-transparent overlay contains a calendar table for selecting ride slots. The table has columns for the days of the week and a "Submit" button. The background also features the "redeye" logo and contact information.

Please select slots as per availability						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Submit		

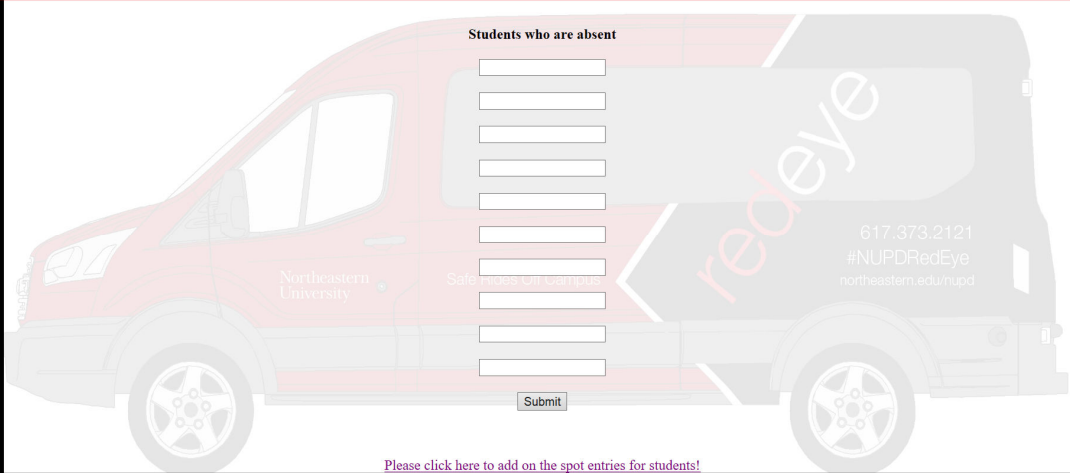
Northeastern University  
Safe Rides Off Campus  
617.373.2121  
#NUPDRedEye  
northeastern.edu/nupd



The screenshot shows a side view of the same red SUV. A semi-transparent overlay displays a table titled "List of students in ride" with columns for NUID, Location, and Details. The background includes the "redeye" logo.

List of students in ride		
NUID	Location	Details
3002	Hemenway	15
3001	Tremont	15

## FUNCTIONALITY OF DRIVER MODULE

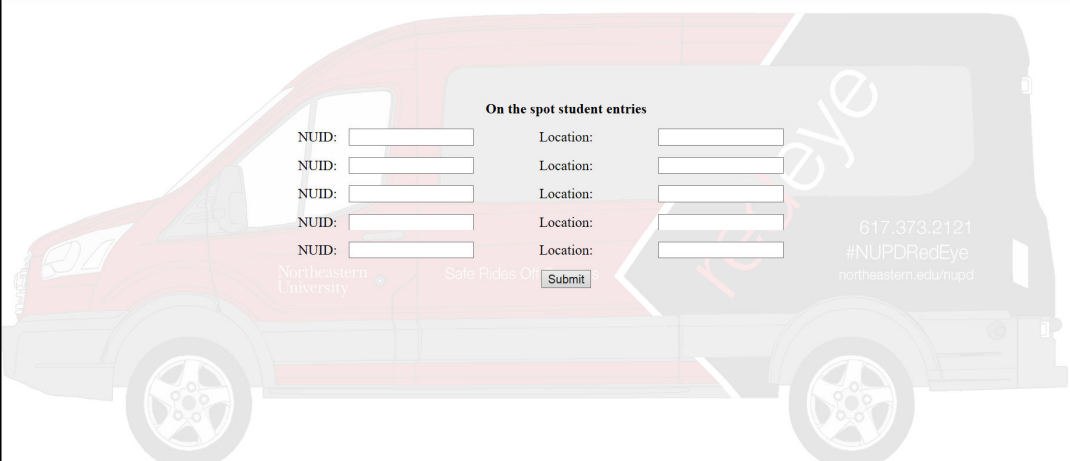


**Students who are absent**

<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>
<input type="text"/>

Please click [here](#) to add on the spot entries for students!

*Background text on van: Northeastern University, Safe Rides On Campus, 617.373.2121, #NUPDRedEye, northeastern.edu/nupd*



**On the spot student entries**

NUID: <input type="text"/>	Location: <input type="text"/>
NUID: <input type="text"/>	Location: <input type="text"/>
NUID: <input type="text"/>	Location: <input type="text"/>
NUID: <input type="text"/>	Location: <input type="text"/>
NUID: <input type="text"/>	Location: <input type="text"/>

*Background text on van: Northeastern University, Safe Rides On Campus, 617.373.2121, #NUPDRedEye, northeastern.edu/nupd*

# 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](http://docs.oracle.com/javase/6/tutorial/doc/BNAFD.html)
  - [HTTPS://DOCS.ORACLE.COM/JAVAEE/5/TUTORIAL/DOC/BNAGX.HTML](https://docs.oracle.com/javase/5/tutorial/doc/BNAGX.html)
  - [HTTP://WWW.W3SCHOOLS.COM/HTML/DEFAULT.ASP](http://www.w3schools.com/html/default.asp)
  - [HTTP://WWW.CODERANCH.COM/FORUMS/F-50/JSP](http://www.coderanch.com/forums/f-50/jsp)
  - [HTTP://WWW.TUTORIALSPOINT.COM/JSP/](http://www.tutorialspoint.com/jsp/)
  - [HTTP://STACKOVERFLOW.COM/](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](https://github.com/SHENOYP/DBMS_PROJECT.GIT)
  - REPORT – [HTTPS://DOCS.GOOGLE.COM/DOCUMENT/D/1V3EPZ4HS7P\\_SLZDHY6C4SFV-VBSPW\\_8410\\_7AW0-JBS/EDIT?USP=SHARING](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](https://docs.google.com/presentation/d/1NCXCHAYPI0TR3CSQOJD4BG5NCO2FCQBKTMJZL_UEFX0/edit?usp=sharing)