Unemployed Elves

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Elevator Pitch

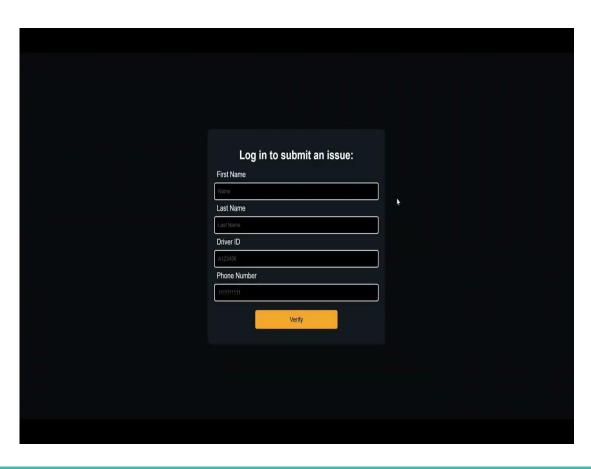
Problem

 Contracted companies hired by Amazon have no streamlined form of driver documentation at end of shift

Solution

- Internal system that logs driver checklist
- Closed Database
 - Records all checklists
 - Contains all current drivers

Overview



First Page

User Story

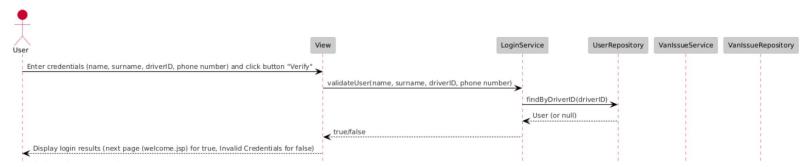
- As an Amazon delivery driver, I want the form to display error messages for invalid inputs,
 so I can ensure all required information is entered correctly.
- As an Amazon delivery driver, I want to provide my Driver ID along with my personal details, so the system can uniquely identify me.

Requirement

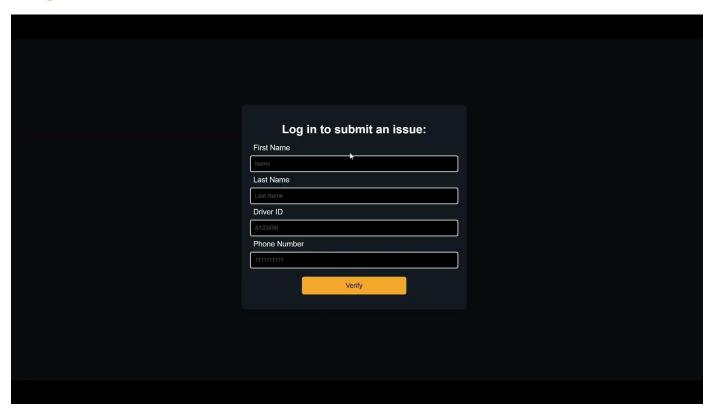
- Input validation for all required fields.
- Integration with backend API /login.
- Clear UI and error messages for invalid inputs.

First Page - Design

Sequence Diagram:



First Page Implementation



Second Page

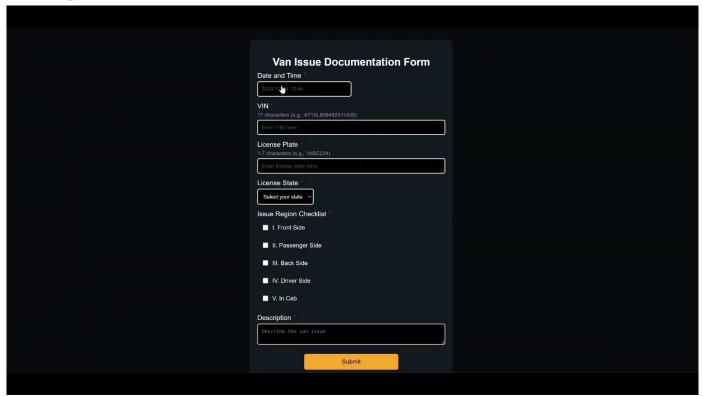
- User Story
 - As an Amazon delivery driver, I want to document issues with vans without using hand-written notes.
- Requirement
 - The second page shall consist of a data collection form prompting the user to input the following: date and time, VIN, license plate, license state, issue region checklist, and issue description

Second Page Design





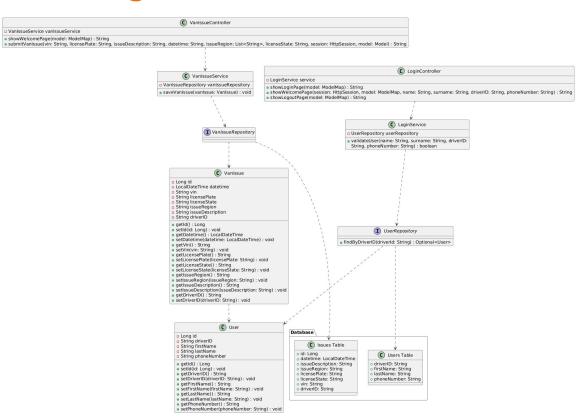
Second Page Implementation



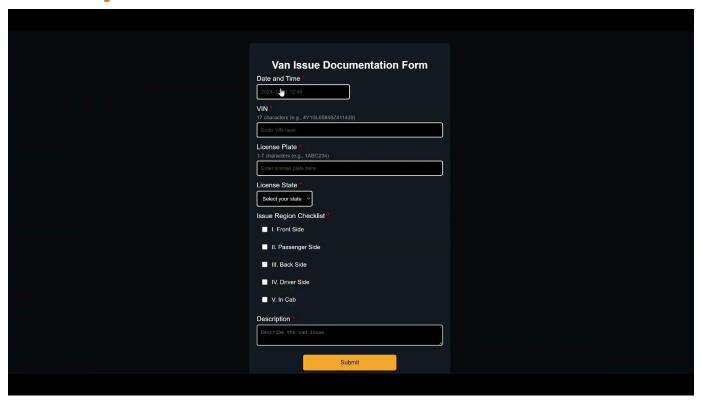
Database Setup

- User Story
 - As an Amazon delivery driver, I don't want to repeatedly type in my credentials.
- Requirement
 - Records in the database shall contain driver_id from the first page to uniquely identify user.
 - The provided information shall be verified against the pre-loaded database of user details.

Database UML Diagram



Database Implementation



R.3 Testing of User Login Validation (First Page)

____ As

As a testing developer, I want to test the user authorization form for different user inputs so I can be sure that only amazon delivery drivers can log in.

Selenium Integration Testing of the first Page

- User cannot type any invalid keys to the form. (R.3.3-R.3.6)
- User cannot access be redirected to the next page if credentials are not in the database, even is basic validation performed well. (R.3.1-R.3.2)

```
public void testInvalidName ()
public void testInvalidSurname ()
public void testInvalidDriverID ()
public void testInvalidPhoneNumber ()
```

R.3.2: An error message shall be displayed indicating that the credentials do not match the pre-loaded database when incorrect credentials are entered (e.g., incorrect driver ID or other invalid fields).

2.
public void testCorrectCredential()
public void testIncorrectCredential()

R.3.1: When valid credentials are entered, the user shall be redirected to the next (van issue documenting) page.

Unit testing of validateUser service function

- When we perform validation of user credentials, the credentials are not case-sensitive. (R.3.7)
- If something does not match what we have in the database (actually mocking here), the function returns false.

```
void testValidateUser_caseInsensitivity()
void testValidateUser incorrectDriverID()
void testValidateUser incorrectPhoneNumber()
void testValidateUser incorrectLastName()
void testValidateUser_correctData()
```

```
[IMF0] Rounning com. example.loginformTest

99:58:18.162 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Using msedgedriver 131.0.2903.70 (resolved driver for Edge 131)

99:58:18.203 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:22.167 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:22.173 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:25.259 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:28.114 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:28.125 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:13.675 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:34.617 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:34.617 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\.cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver.exe

99:58:34.617 [main] INFO io.github.bonigarcia.wdm.WebDriverManager -- Exporting webdriver.edge.driver as C:\Users\maria\cache\selenium\msedgedriver\win64\131.0.2903.70\msedgedriver\win
```

Conclusion

- What it accomplishes for the company
 - Adds new loop of communication regarding fleet
 - Cost Benefits
 - Allows contracted company to increase efficiency with vehicle repairs
- What other features could be added in the future
 - Pictures
 - Create new driver credentials
 - Manager can access information
- How this class went overall
 - Guest lectures were an insightful look into how different perspectives in same frameworks