





- User authentication
- Quick view of all your reports
- Search for & sort reports
- See reports in detail
- Amend severity
- Check off which reports have been reviewed











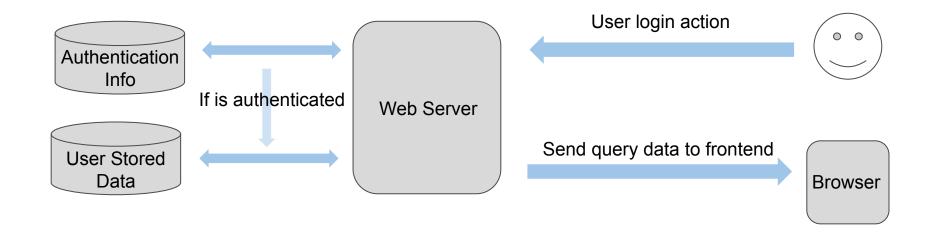
Frontend Styling



Live demo of the website



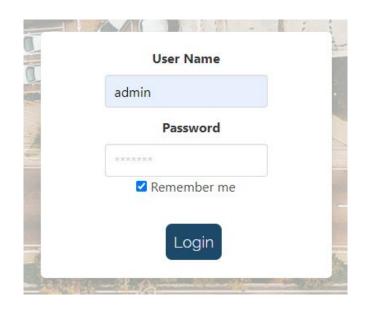
Authentication



Remember me option

Fresh login

- User has the option to have the web page memorize its login credential
- User login with login credential
 - Validate credential with database values





Server ← Frontend Communication

Send query data to frontend

Use data

Send post request to update database

Slider an trigger up

Browser

Use data to fill template

Slider and dropdown trigger updates



Dynamically build the document using the data on the server





template

```
/
data
```

```
"report-content":
{"driver":
        [ {"id": "349","vehicle": "347","response": {...},
        {"id": "342","vehicle": "341","response": {...} ],
"vehicle":
        [ {"id": "347", "driver": "349", "response": {...},
        {"id": "341", "driver": "342", "response": {...} ]
}
```



- Dynamically build the document using the data on the server
- Update the document based on frontend user interaction
 - Javascript with MVC & ReactJS
 - > jQuery
 - a lightweight JavaScript library
 - simplifies a lot of the complicated things from JavaScript
 - \$ (selector).action()
 - \$ (".test") .hide() hides all elements with class="test".



jQuery with AJAX

```
$(".switch").on("click", function () {
    var objectID = $(this).next().val();
    $.ajax({
        type: "post",
        url: '{{ url for("update")}}',
        data: {
            "id": objectID,
        },
        dataType: 'json',
        success: function (data) {
              do something(true);
    })
})
```

```
Reviewed

V<div class="container" style="display: flex;"> flex

V<div class="container" style="display: flex;"> flex

V<div class="switch">...</label>

<input type="hidden" value="60889fa5e48c7c34137b1e01">
V<div class="text">...</div>
```

Table Sorting

NOTE:	w Status	Date ↓	County	Reporter	Severity
	Reviewed	2/28/2021	Needham	Imogen	Suspected Minor Injury Details
	Reviewed	3/5/2021	Needham	Finoa	Possible Injury Details
	Reviewed	3/5/2021	Needham	Ned	No Apparent Injury Details
e C	Unreviewed	3/5/2021	Needham	Eric	Suspected Minor Injury Details
	Reviewed	3/5/2021	Needham	Eric	Fatal Injury Details
C	Unreviewed	3/18/2021	Suffolk County	David	Fatal Injury Details
C	Unreviewed	3/27/2021	Boston	David	Fatal Injury Details
	Reviewed	3/28/2021	Needham	Oscar	Possible Injury Details

External library we used

Bulma

ENMO OR CHELSEA



Challenges & Lessons Learned

- Challenge: Trying to access nested elements in MongoDB document
 - > Bonus Challenge of working with predetermined json format
- Lesson: HTML templating
 - > Specifically generalizing out dictionary elements
- Lesson: Authentication system
- Lesson: jQuery how to update page without reloading
- Lesson: Display & close modal that are dynamically generated

Continuation

- More labels in table
 - > Specific location
 - Particular facts and conditions
- Creating index on database for searching
- Editable modal view page
 - Edit and update every field
- Connect directly to Ruina
 - Add user identification to Ruina mobile application
- Improve architecture incorporating Blueprint, authentication system

Thank you!

