Change request log

Team

Team - 7			
Name	**NetID**	**Email**	**Roles**
Md Samiul Aftad Chowdhury	mac151830	mac151830@utdallas.edu	Coding
Kenechukwu Chidozie Nwankwo	kcn062000	kcn062000@utdallas.edu	Documentation

Change Request

FEMR-138: As a user, I should not be able to submit in Pharmacy unless the disclaimer is checked, so that patients always get counseled.

Concept Location

Step #	Description	Rationale
1	We ran the system	
2	We interacted with the system: after logging in we entered the triage screen.	In order to get familiar with some of the features of the system, and identify the screens or graphical elements we had to change.
3	Then we added a new patient trough the triage to create a medical record	Because we identified that to create a prescription we need open a medical record of the patient
4	Through the Treatment Tab under medical record we have created a new prescription	
5	Then we went to "Pharmacy" to pull up the record that we entered through medical record window.	We noticed that there is Pharmacy window that could be the place where user needs to check the Disclaimer
6	We found the Disclaimer check box that has been mentioned in the change request	
7	We inspected the Disclaimer check both with the "FireBug" tool that we installed in the FireFox web browser to inspect the HTML code.	With the help of FireBug we inspect the Check box and its internal name.
8	Then we have used the regular expression search tool of the Intellij IDE to find the text "<label for="disclaimer">	We found only one occurrence of that text in a HTML file
9	We noticed that there is checkbox named disclaimer	We found that if we can add a validation check in that form before submits then we can notify user.
10	In that HTML template file we found that it has included a JavaScript file pharmacyClientValidation.js which already have function to validate the form before submit	This form validation method was only checking checkReplacementPrescriptions() === false
11	In that javascript file we have found that if check the checkbox is uncheck and user pressed the submit we can notify user that the disclaimer needs to be checked before submit	

Time spent (in minutes): 45

Impact Analysis

Step #	Description	Rationale
1	We made a list of methods called by the Form Submit method	We did not found any java class that is impacted by the javascript change we have made in pharmacyClientValidation.js
2	It was straight forward javascript validation check in the browser side	We realized that this change will not impact on any other java classes of the project

Time spent (in minutes): 20

Prefactoring (optional)

Step #	Description	Rationale
1	We converted the input check box html tag to add a id="disclaimer"	We added this ID so that from the validation function we can use Document tag to get the value of the checkbox
2	We added a jquery code snippet to javascript form submit function	We tested everything was working as before, after the change.
3	This code snippet checks if the disclaimer checkbox is checked	If disclaimer check box is not check then we don't allow user to submit the form and show an alert box
4	We have used java script console log to find out which javascript function is called when we try to submit the form	
5	We committed our changes with git.	Just in case we need to revert our changes.

Time spent (in minutes): 15

Actualization

Step #	Description	Rationale
1	We have not changed any java classes for this change	We realized that for this change request only change we had made in the HTML code and the javascript code the view templates
2	We have manually checked that if we try to submit the form without checking the checkbox it gives an alert box	If that disclaimer check box is not checked user was unable to submit the form and user notified with proper information via the alert box.
3	We did not find any compilation error after we made this change	

Time spent (in minutes): 15

Postfactoring (optional)

Step #	Description	Rationale
1	We realized that this validation check does not affect the post values when the form is submitted	No other method is effected with this change in the java classes
2	We committed and pushed our changes with git.	Just in case we need to revert our changes.

Time spent (in minutes): 10

Validation

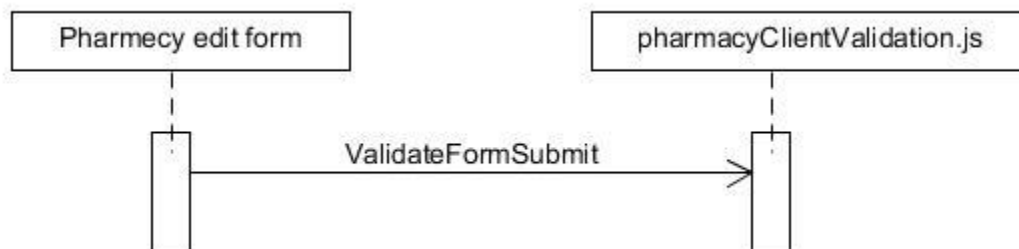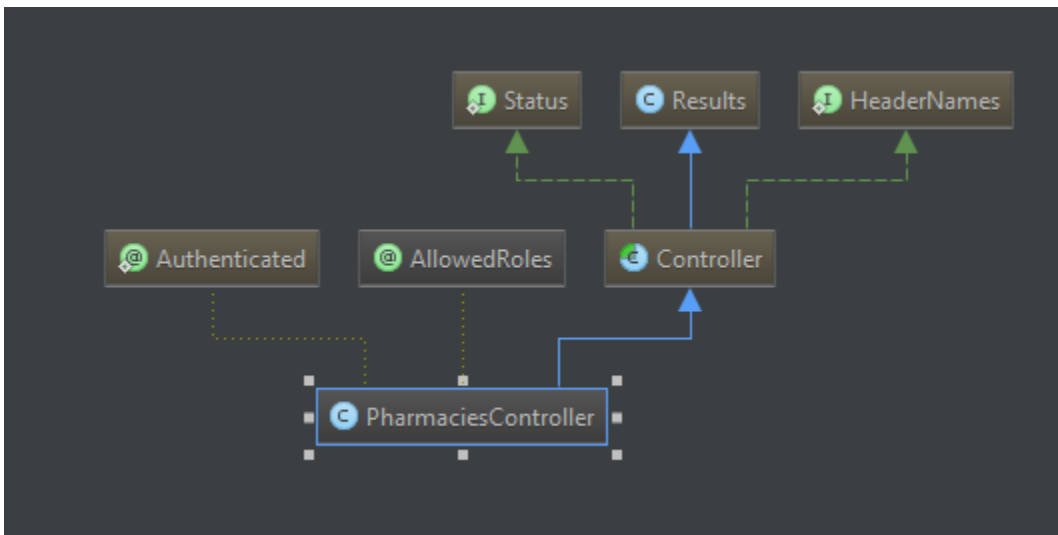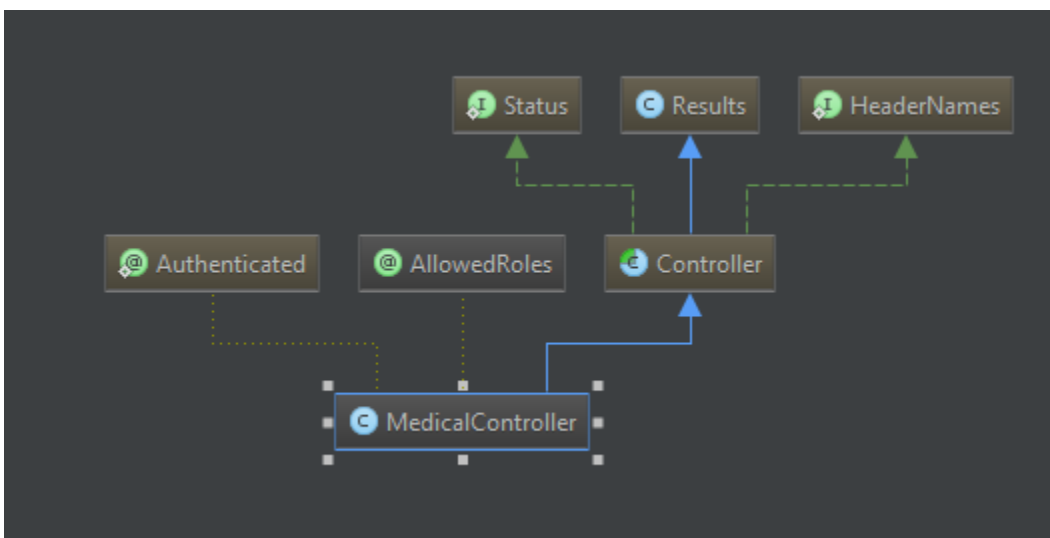| Step #	Description	Rationale
1	Test case defined: Inputs: This test includes browser side testing of the form validation. Expected output: User should not able to submit the form and it showed an alert notifying user that he/she must check disclaimer check box before submitting the form	This is the regular expected behavior. The test passed.

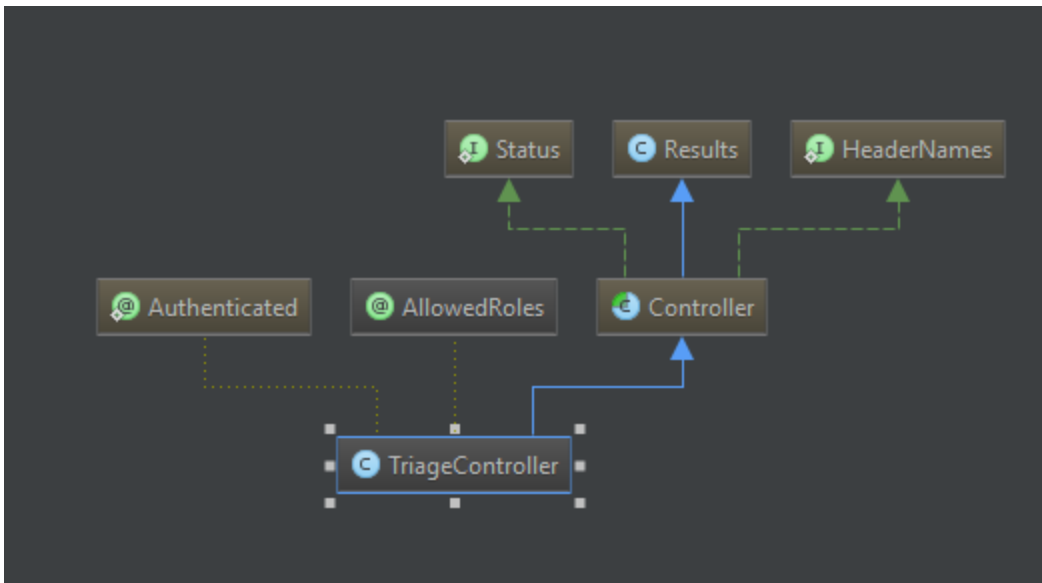**Time spent (in minutes):** 15

Timing
Summarize the time spent on each phase.

Phase Name	Time (in minutes)
Concept location	45
Impact Analysis	20
Prefactoring	15
Actualization	15
Postfactoring	10
Verification	15
Total	**120**

Reverse engineering

UML class diagram for java classes for this change while navigating through the code.

Conclusions

Our major challenge was to find out which javascript method was called when user trying to submit the form and how to get the value of a check box from javascript to check if the box is checked or unchecked. When figure that out then it was pretty straight forward to make that change in the code.

For this change, concept location was relatively easy because the system is small and its architecture and code are not complicated.

Classes and methods changed:
- modified: app/femr/ui/views/pharmacies/edit.scala.html
  - Line: 97 <input type="checkbox" name="disclaimer" id="disclaimer" value="1" />
- modified: public/js/pharmacy/pharmacyClientValidation.js
  - Method: $("form").submit(function(event)