

SYSTEM TEST PLAN

Testing Overview:

To run iTrust2:

1. Right-click on iTrust2 in Eclipse
2. Select Run As -> Maven Build...
3. In the "Goals" field, type spring-boot:run
4. Click "Apply"
5. Click "Run"
6. Navigate to localhost:8080/iTrust2
7. Generate the Sample Users.
 - a. Once iTrust2 launches, click the Generate Sample Users button on the login screen.

Test Data Summary:

The following users with the indicated roles are registered in the system:

Admin	ROLE_ADMIN
ER	ROLE_ER, ROLE_HCP
HCP	ROLE_HCP
Patient	ROLE_PATIENT

Test ID	Description	Expected Results	Actual Results
addVaccine	<p>Preconditions: The iTrust2 user is an admin, has authenticated themselves and is logged in</p> <p>1. The user clicks "Add Vaccine"</p>	<p>A message appears saying "Vaccine Successfully Added to the system"</p> <p>The "Pfizer" vaccine appears in the list under the heading "Vaccines" and has the following visible properties:</p>	<p>Not implemented yet</p>

	<p>A form appears to enter the vaccine information</p> <ol style="list-style-type: none"> Enter the following for the appropriate fields: <ul style="list-style-type: none"> Name: "Pfizer" Age Range(yrs): "15" to "80" Number of Doses: "2" Time until second dose(Weeks): "3" Availability: "True" The user clicks "Submit" 	<p>Age Range(yrs): "15" to "80"</p> <p>Availability: "False"</p>	
editVaccine	<p>Preconditions: test addVaccine is completed and passed right before this test</p> <ol style="list-style-type: none"> The user identifies the "Pfizer" vaccine in the list of vaccines registered in the system and selects the "Availability" field of. The user selects "False" instead of "True" The user clicks "Update Vaccines" 	<p>A message appears saying "Vaccines Successfully Updated"</p> <p>The "Pfizer" vaccine appears in the list under the heading "Vaccines" and has the following visible properties: Age Range(yrs): "15" to "80" Availability: "False"</p>	Not implemented yet
invalidVaccine	<p>Preconditions: The iTrust2 user is an admin, has authenticated themselves and is logged in</p> <ol style="list-style-type: none"> The user clicks "Add Vaccine" <p>A form appears to enter the vaccine information</p> <ol style="list-style-type: none"> Enter the following for the appropriate fields: <ul style="list-style-type: none"> Name: "Johnson & Johnson" Age Range(yrs): "15" to "80" Number of Doses: "4" Time until second dose(weeks): "3" Availability: "True" The user clicks "Submit" 	<p>A message appears saying "Invalid number of doses"</p> <p>The "Vaccines" list remains unchanged:</p> <p>The "Pfizer" vaccine appears in the list under the heading "Vaccines" and has the following visible properties: Age Range(yrs): "15" to "80" Availability: "False"</p>	Not implemented yet

requestVaccineAppointment	<p>Preconditions: The iTrust2 user is a patient and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Appointments > Manage Appointment Requests <p>A form appears to request a medical appointment.</p> <ol style="list-style-type: none"> 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - Type: Vaccine - HCP: Shelly Vang - Date: 02/14/20222 - Vaccine: Pfizer - Comment: See you soon! 3. The user clicks "Submit Request" 	<p>A message appears saying "Appointment Successfully Requested"</p> <p>The appointment request is visible to the HCP or Vaccinator and he or she can choose to accept or decline the appointment.</p>	Not implemented yet
requestVaccineAppointmentFail	<p>Preconditions: The iTrust2 user is a patient who is already vaccinated and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Appointments > Manage Appointment Requests <p>A form appears to request a medical appointment.</p> <ol style="list-style-type: none"> 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - Type: Vaccine - HCP: Shelly Vang - Date: 02/14/20222 - Vaccine: Pfizer - Comment: See you soon! 3. The user clicks "Submit Request" 	<p>A message appears saying "You have received or are receiving the COVID vaccine"</p>	Not implemented yet
documentVaccinationVisit	<p>Preconditions: The iTrust2 user is an HCP or Vaccinator and has authenticated themselves and logged in. It is the iTrust2 user's first visit</p>	<p>A message appears saying "The office visit has been recorded"</p> <p>The user is also scheduled for a new vaccination visit for the second dose of their vaccine</p>	Not implemented yet

	<ol style="list-style-type: none"> 1. The user clicks Patient > Document Office Visit 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - Date: 04/01/2022 - Time: 09:30 AM - Prescheduled: Yes - Patient: John Smith - Type of Visit: Vaccination - Hospital: Wolf Hospital - Basic Health Metrics: <ul style="list-style-type: none"> - Height/Length: 64.2 inches - Weight: 128 lbs - Household Smoking Status: Nonsmoking - Notes: Received Moderna 3. The user clicks "Submit Office Visit" 	exactly 3 weeks from the visit date at the exact same time.	
downloadVaccinationCertificate	<p>Preconditions: documentVaccinationVisit has been completed before this test. The iTrust2 user is a patient and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Patient > Download Vaccination Certificate 2. The user clicks on the "Download" button next to COVID-19 Vaccination Certificate 	The PDF is downloaded and the patient should be able to see	Not implemented yet
downloadVaccinationCertificateFail	<p>Preconditions: The patient has not received any dose of COVID-19 vaccine. The iTrust2 user is a patient and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Patient > Download Vaccination Certificate 2. The user clicks on the "Download" button next to 	The patient's current status is shown with the message, "You have not received any dose."	Not implemented yet

	COVID-19 Vaccination Certificate		
addNewDiagnosis	<p>Preconditions: The iTrust2 user is an Admin and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Admin > ICD-10 Codes 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - ICD-10 Code: K35 - Description: Acute appendicitis 3. The user clicks on "Add Diagnosis" 	<p>The diagnosis is added.</p> <p>A message appears saying "The diagnosis is added successfully"</p>	<p>The diagnosis is added.</p> <p>No message appears.</p>
addDiagnosis	<p>Preconditions: addNewDiagnosis passed. The iTrust2 user is an HCP called Dr. Vang and has authenticated themselves and logged in.</p> <ol style="list-style-type: none"> 1. The user clicks Patient > Document Office Visit 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - Date: 04/01/2022 - Time: 09:30 AM - Prescheduled: Yes - Patient: John Smith - Type of Visit: Vaccination - Hospital: Wolf Hospital - Basic Health Metrics: <ul style="list-style-type: none"> - Height/Length: 63.1 - Weight: 128 - Head Circumference: 57 - Systolic: 120 - Diastolic: 80 - HDL: 65 - LDL: 102 - Triglycerides: 147 - Household Smoking Status: Nonsmoking - Patient Smoking Status: Never 	<p>A message appears saying "Office visit created successfully"</p>	<p>A message appears saying "Office visit created successfully"</p>

	<p>3. Select Diagnosis: K35 - Acute appendicitis-The user clicks "Add Diagnosis"</p> <p>4. Leave Prescriptions and Lab Procedures blank.</p> <p>5. The user clicks "Submit Office Visit"</p>		
viewDiagnoses	<p>Preconditions: addDiagnosis passed. The iTrust2 user is a patient called John Smith and has authenticated themselves and logged in.</p> <p>1. The user clicks Appointments > Past Office Visits</p>	<p>The patient is able to see his/her most recent diagnosis being:</p> <p>Date: 04/01/2022 Provider: Dr. Vang Location: Wolf Hospital Survey: [Pending]</p> <p>The patient can see the details of the diagnosis by clicking View Details.</p> <p>Scrolling down, the patient sees "K35 - Acute appendicitis -" as the diagnosis.</p>	<p>The patient is able to see his/her most recent diagnosis being:</p> <p>Date: 04/01/2022 Provider: hcp Location: Wolf Hospital Survey: [Pending]</p> <p>The patient can see the details of the diagnosis by clicking View Details.</p> <p>Scrolling down, the patient sees "K35 - Acute appendicitis -" as the diagnosis.</p>
addNewPrescription	<p>Preconditions: The iTrust2 user is an Admin and has authenticated themselves and logged in.</p>	<p>NDC is added to existing medications</p>	<p>NDC is added to existing</p>

	<ol style="list-style-type: none"> 1. The user clicks Admin > Manage Drugs 2. Enter the following for the appropriate fields: <ul style="list-style-type: none"> - Name: Test Product - Code: 1234-5678-90 - Description: Strong antiseptic 3. The user clicks "Submit" 	<p>A message appears saying "The NDC was recorded successfully"</p>	<p>medication s</p> <p>No message appears.</p>
--	---	---	--