PulseTile: End-To-End testing

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Introduction

End-to-End Testing is a tool which gives the possibility to check the work of web-application in the browser, ie to exercise a complete production-like scenario. This type of control is based on doing some operations step-by-step and comparing expected and received results.

This manual consists of three separate parts.

In the first part, we described the structure of the tested project. The project presents a structure of files and directories, and each of them has certain target function.

In the second part, we reviewed tools and environments used for End-to-End Testing implementation.

In the third part, we described the operational method of the End-to-End Testing.

Project structure

Structure of directories and files of the project is shown below:

---- root/

- ----- node_modules/ ----- page_objects/
- ------ angularDatePicker.js
- ----- loginPage.js
- ----- patientInformationPage.js
- ----- patientSummaryPage.js
- ----- reactDatePicker.js
- ----- topBar.js
- ----- topBarShowcase.js
- ----- reports/
- ----- tests/
- ----- allergiesTest.js
- ----- breadcrumbsTest.js
- ----- contactsTest.js
- ----- loginTest.js
- ----- medicationsTest.js
- ----- patientAccordionTest.js
- ----- patientInformationTest.js
- ----- patientSummaryRedirectTest.js
- ----- patientSummaryTest.js
- ----- personalNotesTest.js
- ----- problemsTest.js
- ----- sideBarMenuTest.js
- ----- vaccinationsTest.js
- ----- utils/
- ----- deleteltems.js
- ----- devDeleteList.json
- ----- isTestChecked.js
- ----- scrollPage.js
- ----- showcaseDeleteList.json
- ----- .gitignore
- ----- globals.js
- ----- LICENSE
- ----- nightwatch.json
- ----- package.json
- ----- package-lock.json
- ----- README.md
- ----- selenium-debug.log

root/

.gitignore - the list of directories, files and file extensions which can't be added to commits and to the pull-requests

globals.js - export the module with a list of rules. These rules present helper functions that are called behind the scenes or explicitly in the following cases:

- before/after each test is run;

- removing single test item;
- removing all test items;
- date picking

LICENSE -

nightwatch.json - JSON-format array with all settings which are required for test realization

<mark>package.json -</mark>

package-lock.json - the list of Node- and React- modules/plugins versions, that included in this project

README.md - the information for the users how to install and set the project

node_modules/

This directory is used to locate all NodeJs- and ReactJS- plugins and modules which are required for tests working.

page_objects/

Each JS-file in this directory exports a module, which includes required settings: angularDatePicker.js, reactDatePicker.js - for Angular/React datepicker; loginPage.js - for login page; patientInformationPage.js - for Patient Information page; patientSummaryPage.js - for Patient Summary page; topBar.js - for topbar menu; topBarShowcase.js - for topbar (in Showcase-version)

reports/

This directory is used to locate report information after tests passing. There are report HTML-file, screenshots etc

tests/

Each JS-file in this directory exports a module, which conducts certain type of checking / verification:

allergiesTest.js - working of core-plugin Allergies; *breadcrumbsTest.js* - breadcrumbs component rendering; *contactsTest.js* - working of core-plugin Contacts; *loginTest.js* - user authorization process; *medicationsTest.js* - working of core-plugin Medications; *patientAccordionTest.js* - patient accordion component rendering; *patientInformationTest.js* - patient information component rendering; *patientSummaryRedirectionTest.js* - redirecting to patient summary page; *patientSummaryTest.js* - patient summary page rendering; *patientSummaryTest.js* - personal notes component rendering; *problemsTest.js* - working of core-plugin Problems (Diagnosis); *sideBarMenuTest.js* - sidebar menu component rendering; *vaccinationsTest.js* - working of silver-plugin Vaccinations

utils/

deleteItems.js, devDeleteList.json, showcaseDeleteList.json - this file includes a function and settings which are used for removing test data

isTestChecked.js - this file include a function which checks that est is used in the current version

scrollPage.js - this file includes a function which scrolls a browser page

TOOLS AND ENVIRONMENT

End-to-End tests are written using the Nightwatch.js framework the framework Nightwatch.js which is based on Node.js. The main advantages of this framework are:

- Nightwatch.js has simple but powerful syntax which helps to write tests very quickly, using only Javascript (Node.js) and CSS or Xpath selectors;
- Built-in command-line test runner in Nightwatch.js can run the tests either sequentially or in parallel, together, by group, tags or single;
- Nightwatch.js controls the Selenium standalone server automatically in a separate child process; can be disabled if Selenium runs on another host;
- In Nightwatch.js either CSS or Xpath selectors can be used to locate and verify elements on the page or execute commands;
- Flexible command and assertion framework which makes it easy to extend to implement an application specific commands and assertions;
- JUnit XML reporting is built-in so you can integrate your tests in your build process with systems such as Teamcity, Jenkins, Hudson etc.

Tests run by open source automation server Jenkins. It takes test code from GitHub and runs them using its own settings. Below you could find main benefits why use Jenkins:

- Jenkins is easy to install: it is a ready to run out-of-the-box, with packages for Windows, Mac OS X and other Unix-like operating systems;
- Jenkins can be easily set up and configured via its web interface, which includes on-the-fly error checks and built-in help;
- With hundreds of plugins, Jenkins integrates with practically every tool in the continuous integration and continuous delivery toolchain;
- Jenkins also can be extended via its plugin architecture, providing nearly infinite possibilities for what Jenkins can do;
- Jenkins can easily distribute work across multiple machines, helping drive builds, tests and deployments across multiple platforms faster.

COMMON ALGORITHM

End-2-End Testing consists of thirteen separate tests, which check working of the PulseTile application in the browser. Tests work one after another. Report about test results are formed when all tests are passed. Common scheme of the test algorithm is presented at the image below.



Initial data for testing is located in the settings file nightwatch.json which is located in the root application directory. Parameters value depends on the test version. Lists of test parameters are presented in the tables below:

Parameter	Description	Version	Value
<i>launchUrl</i> Launch page of the application. Login form must be located here		Showcase	https://secureshowcase
		Dev-Angular	.npple.roundation/
		Dev-React	

		Helm	http://dev.ripple.foundat ion:8000	
version	Application version	Showcase	showcase	
		Dev-Angular	dev_ang	
		Dev-React	dev_react	
		Helm	helm	
loginInput	Test user's login	Showcase	Alen	
		Dev-Angular		
		Dev-React		
		Helm	ivor.cox@ripple.founda tion	
passwordInput Test user's password		Showcase	070790	
		Dev-React		
		Helm	IvorCox1!	
testNotChecked	List of tests which isn't used	Showcase	empty	
		Dev-Angular	empty	
		Dev-React	empty	
		Helm	personalNotesTest	
loginButton	CSS selector for login button	Showcase	button.auth0-lock-subm	
		Dev-React		
		Helm	input[name^='login']	
<i>menultems</i> List of items which must be presented in the left sidebar menu		Showcase	Problems, Contacts,	
		Dev-Angular	Clinical Notes,	
		Dev-React	Vaccinations	

		Helm	Contacts, Medications, Allergies, Vaccinations, Diagnosis, Top Three Things
userInfo	Patient information for the	Showcase	"name" : "Alen
		Dev-Angular	мекка, "userType" : "PHR",
		Dev-React	"email" : "aschenputtel123912 @gmail.com", "birthday" : "10/05/2099",
		Helm	"name" : "Ivor Cox", "userType" : "PHR", "email" : "", "birthday" : "10/05/2099"
patientSummary	Link name for the Patient Summary page	Showcase	Patient Summary
iviaili		Dev-Angular	
		Dev-React	
		Helm	Home

Description of common test scheme is located below:

Block	Description
1	Initial data is passed to the program
2	Work of Core-plugin Allergies checking
3	Breadcrumbs rendering checking
4	Work of Core-plugin Contacts checking
5	Work of login form and user authorization checking
6	Work of Core-plugin Medications checking
7	Patient Accordion rendering checking
8	Patient Information rendering checking

9	Redirecting between left sidebar checking
10	Patient Summary rendering checking
11	Work of Core-plugin Personal Notes checking
12	Work of Core-plugin Problems checking
13	User profile rendering checking
14	Left sidebar rendering checking
15	Work of Silver-plugin Vaccinations checking

ALLERGIES TEST

This test checks the work of core-plugin Allergies.

*	Helm			NHS	0	4 ⁰ 🔒
= 1	Menu Docto Addre	Cox xr: Goff Carolyn D. ess: Hamilton Practice, 5544 Ante Street, Hamilton, Lanarkshi	3, N06 SLP	D.O.B. 06-Jun-1944 Phone: (011981) 32362	NHS No	Gender: Male 999 999 9000
Home		Home + Allergies				
Diagno	osis					
Medica	ations	in the second				
Allergi	es	- Ja Ja				
Contac	cts	have strong as	15-	- 42		
Top 3	Things	Allergies	a lot that a star way	and the second second		
Vaccin	nations	Those things that your body reacts against ,	hat you have an allergy to	APT I	E	
		Allergies				T
		Cause	- Reaction	Source		
		allergy	sneezing	ethercis		
		allergy	coughing	ethercis		

It is necessary to check:

- possibility to enter Allergies list;
- rendering of Allergies creating form;
- creating new Allergies and updating information about Allergies.



Description for est scheme is located below:

Block	Description
1	Initial data is passed to the program
2-3	User authorization and checking, that user logged in correctly
4	Redirecting to Patient Summary page and Browser window resizing
5-6	Redirecting to Allergies page.Checking, that allergies list and button Create are presented on this page
7-8	Redirecting to Allergies creating form and checking that it was rendered correctly
9-10	Creating new Allergy and checking that it is presented in the allergies list after it
11-12	Updating information about Allergy and checking, that changes is presented
13	Removing test data and closing browser page
14-15	Preparing report about the test results

The same algorithm is used to check the work of:

- core-plugin **Contacts**;
- core-plugin Medications;
- core-plugin **Problems**;
- silver-plugin Vaccinations.

BREADCRUMBS TEST

This test checks the work of left sidebar menu. It monitors those menu items are present in the menu and are clickable. List of these items can be different depends on the version.

For this reason, the list of checked items is one of settings, that is set in *nightwatch.json* settings file.

		🗧 🌀 Pul	<mark>se</mark> Tile
← H	əlm	■ Menu Doctor Addres	Cox : Goff Carolyn I ss: Hamilton Pra
⊟ Menu	Ivor Cox Doctor: Go Address: H	Patient Summary Problems / Diagnosis	Patient List
Home		Medications	
Diagnosis		Allergies	Probler
Medications		Contacts	Myocardi
Allergies		Events	Adenocar
Contacts		Documents	Hyperten
Top 3 Thing	s	Orders	Cholecys
Vaccinations		Test Results	

Lists of menu items that checked are shown below:

Version	Items
Showcase	Problems, Contacts, Medications, Allergies,
Dev-angular	Clinical Notes, Personal Notes, vaccinations
Dev-React	

Helm	Contacts, Medications, Allergies,
	Vaccinations, Diagnosis, Top Three Things

Algorithm of Breadcrumbs test is shown below:



CONTACTS TEST

Algorithm that checks the work of core-plugin **Contacts** is similar to the algorithm for the **Allergies** plugin check.

🗧 Helm					NHS	ଡ 斗 🕹
E Menu Do Ad	or Cox _{betor:} Goff Carolyn D. _{idress:} Hamilton Practice, 5544 Ante Street, H	amilton, Lanarkshire, N06 5LP			D.O.B. 06-Jun-1944 Phone: (011981) 32362	Gender: Male NHS No. 999 999 9000
Home	Home + Contacts					
Diagnosis						
Medications						
Allergies					e	
Contacts						
Top 3 Things					$\mathbf{\nabla}$	
Vaccinations	The key people in your life, the	at you keep in contact with or	n a regular basis			
	Contacts					۲
	Name	*	Relationship	Next Of Kin	Source	
	Andrew Finch		Son	Yes	marand	
	Annette Joe		Wife	Yes	ethercis	
	Bruce Wayne		Key formal care worker	No	ethercis	
	Fred Bloggs		Friend	No	ethercis	
	Janice Cox		Daughter	Yes	marand	
						+ Create

LOGIN TEST

This test controls the process of user authorization. It checks next:

- Launch page is loaded correctly;
- Login form is rendered correctly and all required elements are presented here;
- Initial user data is presented in the database;
- Patient summary page is loaded after authorization;
- Patient information at summary page corresponds to request.

Initial data of login tests is described in the table below:

Parameter	Description	Version	Value
launchUrl	Launch page of the	Showcase	https://secureshowcase.ripple.f
	must be located here	Dev-Angular	oundation/
		Dev-React	
		Helm	http://dev.ripple.foundation:800 0
loginInput	Test user's login	Showcase	Alen
		Dev-Angular	
		Dev-React	
		Helm	ivor.cox@ripple.foundation
passwordInput	Test user's password	Showcase	070790
		Dev-Angular	
		Dev-React	
		Helm	IvorCox1!
loginButton	CSS selector for login	Showcase	button.auth0-lock-submit
	button	Dev-Angular	
		Dev-React	
		Helm	input[name^='login']

waitingTime	Maximal time for elements rendering	Showcase	25000 msec
		Dev-Angular	
		Dev-React	
		Helm	
userInfo	Patient information Showcase "name"	"name" : "Ivor Cox",	
	rendering	Dev-Angular	D.",
		Dev-React	"address" : "Address: Hamilton Practice, 5544 Ante Street,
		Helm	Hamilton, Lanarkshire, N06 5L", "birthday" : "D.O.B.
			06-Jun-1944", "phone" : "Phone: (011981) 32362", "gender" : "Gender: Male", "number" : "NHS No. 999 999 9000",

Launch page with login form in Helm version and all other versions:

NHS
Sign in to your NHS Account
Email address
Password
Sign in
• <u>Verify</u>
Forgotten your password?
I don't have an NHS account

Launch page with login form in other versions:

Rip	ple Care R	ecord UAT
L	og In	Sign Up
G	LOG IN WITH GOO	DGLE
9	LOG IN WITH TWI	TTER
	or	
ম	username/email	
ð	your password	
C	Don't remember you	ur password?
	LOG IN	>

Algorithm of login test is shown below:



Description for the login test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly
4 - 5	Checking, that login form is presented at the launch page and it includes three main elements: - Login input field - Password input field - Submit button
6 - 7	User login and password are input to the field and form is submitted. Login and

	password must be presented in the database
8 - 9	If user is presented in the database, browser renders patient summary page. Program checks that this page is rendered correctly
10 - 11	Checking user information at the patient summary page. It must be corresponded to initial data
12 - 13	Test report is formed depends on test result
14	Browser is closed

MEDICATIONS TEST

The Algorithm checks the work of core-plugin **Medications.** It is similar to the algorithm for **Allergies** plugin check.

🗧 Hel	m			NHS	0 4 ⁰ 1
≡ Menu	Ivor Cox Doctor: Goff Carolyn D. Address: Hamilton Practice, 5544 Ante Street, Hamilton, Lanarka	hire, N06 5LP		D.O.B. 06-Jun-1944 Phone: (011981) 32362	Gender: Male NHS No. 999 999 9000
Home	Home + Medications				
Diagnosis Medications					
Allergies				1	
Contacts	the second second				1
Top 3 Things	Medications				
Vaccinations	The medical tablets and other medications	that you take regularly for your health care			
	All Medications				T
	Name	▼ Dose	Supply	Source	
	Amlodipine 5mg tablets	5 mg oral once a day	19-Jul-2018	marand	
	Atorvastatin 40mg tablets	40mg oral once a day	19-Jul-2018	marand	
	Enalapril 10mg tablets	10mg oral once a day, in the morning	19-Jul-2018	marand	

PATIENT ACCORDION TEST

This test checks rendering of Patient Information page in Personal Information block.

+	Helm		NHS	0	₽2	۵
	Personal Information					
Patient	nformation					
Appl	cation Preferences				\mathcal{A}_{i}	^
Pers	nal Information					~
First N Ivor	ame	Date of Birth 14-Aug-2018				
Last N Cox	ame	Gender Female				
NHS N 99999	o 09000	Doctor Dr Emma Huston				
					Cor Ec	dit
Cont	act information					^
Char	ge History					^
Feed						^

Algorithm of this test is shown below:



Description for the test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Launch page is loaded. Checking, that launch page was loaded correctly
4	Redirecting to Patient Information page
5 - 6	Check the presence on expand button and click on it
7 - 8	Comparing information on Patient Information block with initial data
9	Closing browser page
10-11	Test report creating depends on test result

PATIENT INFORMATION TEST

This test checks rendering of Patient Information page.



÷	Helm	NHS	8	₽2	-
	Personal Information				
Patier	nt Information				
Арр	plication Preferences			2	^
Per	sonal Information				^
Cor	ntact Information			2	>
Add 6801	ress Phone Number 1 Tellus Street 07624 647524				
City Wes	tmorland Email				
State Wes	e trrorfand				
Post Box	tal Code 306				
Cour USA	ntry				
				C E	dit
Cha	ange History				^
Fee	ds			1	^



Algorithm of this test is shown below:

Description for the test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly
4	Redirecting to Patient Information page
5 - 6	Check the presence of blocks "Application Presence", "Personal Information", "Contact Information", "Change history"
7	Closing browser page
8-9	Test report creating depends on test result

PATIENT SUMMARY REDIRECT TEST

This test checks Patient Summary page displaying and redirecting between items in left bar menu. Algorithm of this test is shown below:



Description for the test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly
4 - 5	Checking redirecting of Patient Summary page

6 - 7	Checking redirecting of Contacts page
8 - 9	Checking redirecting of Allergies page
10 - 11	Checking redirecting of Medications page
12 - 13	Checking redirecting of Diagnosis page
14	Closing browser page
15 - 16	Test report creating depends on test result

This test has only one initial parameter - *patientSummaryMain*. It equals "Home" for Helm-version and "Patient Summary" for all other versions.

PATIENT SUMMARY TEST

This test checks Patient Summary Panel displaying and toggling of heading blocks. Algorithm of this test is shown below:



Description for the test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly
4 - 5	Checking redirecting of Patient Summary page
6 - 7	Open Patient Summary panel and checking presence of checkbox with labels Contacts, Problems, Allergies and Medications
8 - 9	Toggle checkbox Allergies and check that it is appeared

10 - 11	Toggle checkbox Diagnosis and check that it is appeared
12 - 13	Toggle checkbox Medications and check that it is appeared
14	Closing browser page
15 - 16	Test report creating depends on test result

PERSONAL NOTES TEST

This test checks Personal Notes page rendering and possibility to create or update new items.

🗧 🔊 Pulse	eTile Search			٩	4 ⁰ 2
E Menu Ivor Cox Doctor: Go Address: H	< off Carolyn D. Iamilton Practice, 5544 Ante Street, Hamilton, Lanarks†	ire, N06 5LP	D P	.O.B. 06-Jun-1944 hone: (011981) 32362	Gender: Male NHS No. 999 999 9000
Patient Summary	Patient Listings + Patient Summary + Personal Notes				
Problems / Diagnosis	Personal Notes				T
Medications	Type	Author	Date Created	Source	
Allergies	#Patient Note	aschenputtel123912@gmail.com	01-Feb-2018	ethercis	
Contacts	0123456	bob.smith@gmail.com	25-Mar-2018	ethercis	
Events	1	bob.smith@gmail.com	13-Nov-2017	ethercis	
Documents	1	bob.smith@gmail.com	20-Jan-2018	ethercis	
Orders	1	bob.smith@gmail.com	13-Nov-2017	ethercis	
Test Results	10	bob.smith@gmail.com	22-Dec-2017	ethercis	
Procedures	123Ax 22	bob.smith@gmail.com	29-Nov-2017	ethercis	
Clinical Statements	123bxorrrr	bob.smith@gmail.com	12-Jan-2018	ethercis	
Personal Notes	1981	bob.smith@gmail.com	13-Nov-2017	ethercis	
Vaccinations	1	bob.smith@gmail.com	05-Dec-2017	ethercis	
Vitals - News	((1 2 3 4 5 > >>				+ Create

Algorithm of this test is shown below:



Description for the test block scheme:

Block	Description		
1	Initial data passes to the test		
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly		
4 - 5	Checking redirecting of Patient Summary page		
6 - 7	Checking redirecting of Personal Notes page		
8	Checking that button Create is presented on Personal Notes page		
9 - 10	Checking possibility to create new Personal Notes		
11 - 12	Checking that new Personal Note is presented in list and possibility to update information about it		
13	Removing test information and closing browser page		
14 - 15	Test report creating depends on test result		

This test run only for version that includes Person Notes plugin.

PROBLEMS TEST

Algorithm that checks the work of core-plugin **Problems** and similar to the algorithm for **Allergies** plugin checking.

🗧 Həl	m			NHS	0	4 ⁸ 🛔
≡ Menu	Ivor Cox Doctor: Goff Carolyn D. Address: Hamilton Practice, 5544 Ante Street, Hamilton, Lanarkshire, N06 5LP		C F	0.0.B. 06-Jun-1944 Thone: (011981) 32362	NHS No.	Gender: Male 999 999 9000
Home	Home Problems / Diagnoses					
Diagnosis Medications Allergies						
Contacts						
Top 3 Things	Diagnoses 🖉					
Vaccinations	The key problems that affect your health, some with clear diagnoses from	n your doctor				
						_
	Diagnoses					<u>т</u> ,
	Diagnoses	•	Date	Source		
	# CONDYLE RIGHT HUMERUS		23-Jun-2018	ethercis		
	Adenocarcinoma of prostate		16-Jul-2004	marand		
	AKI		27-Jun-2018	ethercis		
	Cholecystectomy		11-Apr-2017	ethercis		
	Dupuytren's contracture		05-May-2015	ethercis		
	Harlequin Syndrome		17-Jul-2018	ethercis		
	Hypertension		17-Sep-2004	marand		
	Kidney Disease (Chronic Kidney Disease)		19-Dec-2017	ethercis		
	myocardial infarction		09-Sep-2010	ethercis		

This plugin calls **Diagnosis** in Helm-version and **Problems** in other version.

< 🔊 Pulse	ETILE Search		۵ 🗘 ۵
Menu Ivor Cox Doctor: Gol Address: Ha	ff Carolyn D. amilton Practice, 5544 Ante Street, Hamilton, Lanarkshire, N06 5LP	D Pi	O. B. 06-Jun-1944 Gender: Male hone: (011981) 32362 NHS No. 999 999 9000
Patient Summary	Patient Listings + Patient Summary + Problems / Diagnoses		
Problems / Diagnosis	Problems / Diagnoses		T
Alleraion	Problems / Diagnoses	Date	Source
Centeste	# CONDYLE RIGHT HUMERUS	23-Jun-2018	ethercis
Evente	Adenocarcinoma of prostate	16-Jul-2004	marand
Documents	AKI	27-Jun-2018	ethercis
Orders	Cholecystectomy	11-Apr-2017	ethercis
Test Results	Dupuytren's contracture	05-May-2015	ethercis
Procedures	Harlequin Syndrome	17-Jul-2018	ethercis
Clinical Notes	Hypertension	17-Sep-2004	marand
Clinical Statements	Kidney Disease (Chronic Kidney Disease)	19-Dec-2017	ethercis
Personal Notes	myocardial infarction	09-Sep-2010	ethercis
Vaccinations	Myocardial infarction	02-Mar-2016	ethercis
Vitals - News	(((1 2)))		+ Create

PROFILE TEST

This test checks information, that is presented in the user profile block. This test consists of the follow steps:

- user authorization;
- user profile panel opening;
- comparing user information (from settings) with rendering results

User profile in Helm-version:



User profile in all other versions:





Algorithm of this test is shown below:

This test uses initial parameter *userInfo*, that depends on current version. The value of this parameter is presented in the description for Common algorithm.

SIDEBAR MENU TEST

This test checks the possibility to toggle left sidebar menu. The Algorithm of this test is shown below:



Description for the test block scheme:

Block	Description
1	Initial data passes to the test
2 - 3	Browser is opened, launch page is loaded. Checking, that launch page was loaded correctly
4 - 5	Checking redirecting of Patient Summary page
6	Checking that sidebar menu button is presented on page
7 - 9	Click on the button and check that sidebar menu was hidden
13	Removing test information and closing browser page
14 - 15	Test report creating depends on test result

VACCINATIONS TEST

Algorithm checks the works of silver-plugin **Vaccinations** and similar to the algorithm for **Allergies** plugin checking.

*	Helm	NHS	8	₽ ⁰ ≜	
	Ivor Cox Dector: Coff Carolyn D. Address: Hamilton Practice, 5544 Ante Street, Hamilton, Lanarkshire, N06 SLP	D.O.B. 06-Jun-1944 Phone: (011981) 32362	NHS No	Gender: Male 999 999 9000	
Home	Home + Vaccinations				
Diagnos Medica Allergie Contact Top 3 T Vaccina	Disposis Medications Altergies Contacts Top 3 Things Vaccinations/vaccines you have had to help you avoid ill health				
	Vaccinations			T	
	Name v Source Date	2 ()			
	hepatitis A ethercis 24J	lul-2018			
	Hepatitis B marand 24-D	0ec-2016			
	Hepatitis B1 C1 marand 09-J	lan-2018			
	hepatitis C ethercis 31-J	lul-2018			
	lupus ethercis 27-0	0ec-2017			
	Tetanus ethercis 22-0	0ec-2017			
				+ Create	