TEST PLAN

NADKO DENTALS

FONTYS

2021

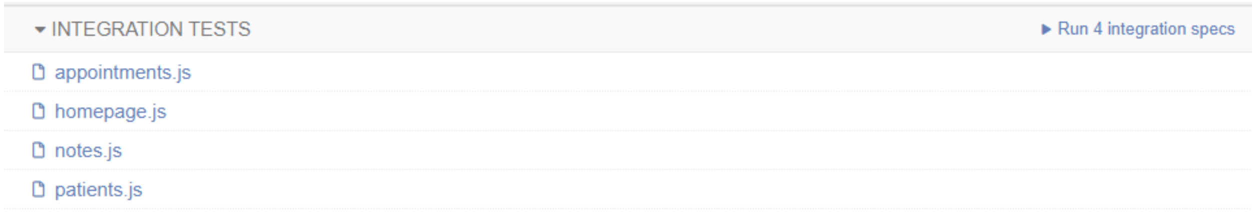
Version	Author	Changes
1.0	Tsanko Nedelchev	Initial release
1.1	Tsanko Nedelchev	Added e2e testing strategy ,specified the different user acceptance tests to be run, specified what commands to run for manual testing.

Contents

Test Strategy

End-to-End testing

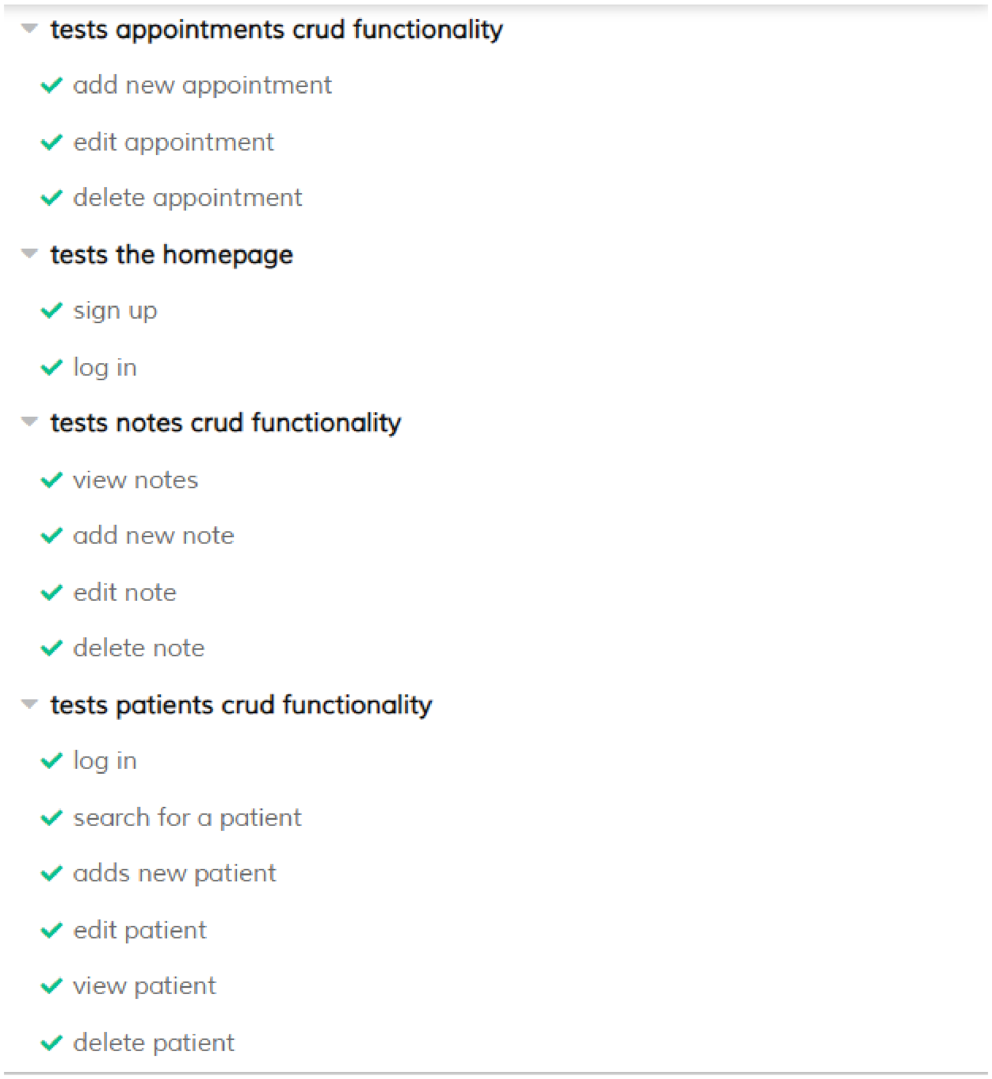
End-to-end test implementation via Cypress per user story divided into 4 integration specs



▾ INTEGRATION TESTS ▸ Run 4 integration specs

- appointments.js
- homepage.js
- notes.js
- patients.js

Each having its own separate integration tests.



▾ tests appointments crud functionality
- ✓ add new appointment
- ✓ edit appointment
- ✓ delete appointment

▾ tests the homepage
- ✓ sign up
- ✓ log in

▾ tests notes crud functionality
- ✓ view notes
- ✓ add new note
- ✓ edit note
- ✓ delete note

▾ tests patients crud functionality
- ✓ log in
- ✓ search for a patient
- ✓ adds new patient
- ✓ edit patient
- ✓ view patient
- ✓ delete patient

The test can be launched manually by running the command `npm test` in the root directory of the React.js project.

User Acceptance tests

Testing done by an independent person who plays the part of the user in that test case. The purpose is to observe the user-friendliness of the application and to receive feedback on the different features.

Test No.	Test Name	Test Purpose	Test Data/Directions	Expected result
1.	Sign Up	Test that a user is created in the database with their assigned role.	Username: testDentist Email: test@email.com Password: password Role: dentist	A user with the given credentials is created into the database.
2.	Log In	Test that a previously created user can log in with their credentials.	Username: testDentist Password: password	The user can access their profile page.
3.	Add patient	Test if the dentist can add a patient to their list of patients	First Name: test Last Name: test Email: test@gmail.com Phone: +3112837621	The new patient is added to the user's list of patients.
4.	Edit patient	Test if the dentist can edit the patient's information.	First Name: testPatient	The new patient has their name changed from "test" to "testPatient"
5.	Search for a patient	Test if the search functionality works	Search: testPatient	"testPatient" appears in the search results
6.	View patient	Test if the dentist can view the patient's personal pages where they can see their notes about the patient	Click on the "View" button of the selected patient	The dentist can see the patient's data and their own notes about that patient.
7.	Delete patient	Test if the dentist can remove a patient from their list of patients	Click on the "Remove" button of the selected patient	The removed patient is no longer displayed in the list of patients.
8.	Add note	Test if the dentist can add a note about a patient	Note content: "Note about a patient"	The dentist can see the newly-added note in the patient's info page.

9.	Edit note	Test if the dentist can edit a note they created beforehand	Note content: “Note about a patient (edited)”	The dentist can see the updated note content with updated date and time.
10.	Delete note	Test if the dentist can delete a note they previously created	Click on the trash can icon on the note that needs to be deleted.	The removed note is no longer visible.
11.	Create an appointment	Test if the dentist can create a new appointment for their patient	Patient: choose from a dropdown list of patients Appointment Time: select a date and time for the appointment.	The new appointment is displayed in the list of appointments.
12.	Edit an appointment	Test if a dentist can edit the appointment they previously created	Change either the time of the appointment or the patient who visits	The edited appointment has its data changed to the edited data.
13.	Remove an appointment	Test if the dentist can remove and appointment from their list of appointments	Click on the “Remove” button of the selected appointment.	The removed appointment is no longer shown in the list of appointments.

Unit testing

Unit testing will be done automatically by the CI/CD pipeline every time a developer makes a commit to the master branch repository.

It can be done manually by running the command gradle test inside the root directory of the project.

Quality assurance testing

Quality is monitored by SonarQube and an analysis is triggered by the CI/CD pipeline with each successful commit to the master branch repository.

It can be done manually by running the command gradle sonarqube inside the root directory of the project.