Website &Design

Development

3) Test Plan



# Scope (in scope, out scope)

In scope:

after I defined my website goals and requirements, I need to make my website scope clear within the allotted time. Scope depends on how you will achieve the goals in your website and satisfy the needs of your users.

There are two parts of scope of my website: functionality and content. Functionality what you want your website to do. Content means the information in my website which my users can use such as buttons, texts, links, videos. functionality can be divided into two parts data requirements and usability requirements. Data requirements refers to the information you want to collect from users and how it will be used. In my website I want to know user’s first and last name, password, email (if I want to connect them), gender and city so that user can login my website. Then I need to know which doctor and service the user wants, and which time and date are suitable for users so that they can book an appointment. Useability requirements: is how easy users can use the website. in my website I use many elements of usability such as presenting information in a clear and concise way, butting items in their correct places, not having ambiguous areas and making sure that the content works on many devices and browsers. As a result, users can achieve their goals and leave the website satisfied.

Content refers to the photographs, pdfs, videos which are used to clarify my website so that users are given the information they are looking for and they can achieve their goals. In my website I used cards, photos and paragraphs which represent the service the user is looking for.

Out scope:

It is the features or services that are not required on the first stage of the website, but they are planned to be done later maybe if a client asked for them. For example, in my website I may add online payment and sending and receiving medical reports online via the website. Also, a feedback form filled by the users online maybe added in the future so that we can understand how the users want the website in the future.

# Testing strategy

# Test objectives

The last stage of creating any website is testing. We need this stage to reduce website errors and find future errors to reduce risk, make sure our website is professional and can work on different devices, improve website design so that there is no need to redesign it continuously. Also, testing is important to evaluate work products, verify requirements and validate performance. Other objectives are testing the functionality of my website and testing that the UI , UX are suitable for my website.

# Testing methodology

It is a way of testing your website in many ways. You can do **unit testing** that is testing of individual unit one by one to detect the errors at an early stage. In my testing plan I tested buttons and links one by one. Another way is **integration testing** that is two or more modules are tested together when they are integrated such as the integration between the button name and its related page or the link with the output expected. In **system testing** all the modules are integrated and tested to make sure that the website output meets the user’s requirements. In my website I tested that the user can only access the information related to him. In my website I tested that if I press on booking button, the appointment will be added to database and to my appointments page. **Acceptance testing** is when the website is ready to be released and used by users to make sure that it is what they wanted.

# Schedule

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Date from | Date to | Number of hours | Test Type *(Responsiveness, form validation, consistency … etc.)* | Description |
| 1 | 27/8/2022 | 27/8/2022 | Four hours | Consistency | Logo in all pages is the same size. Header is written in h1 tag and size of header font is the same in all pages. key buttons have special color. Title name is suitable to the content of the page. |
| 2 | 28/8/2022 | 28/8/2022 | Four hours | Consistency | Size of images or cart is the same in all pages.  Color and size of font is suitable with its function.  Navigation bar in all pages is the same color, size and shape. |
| 3 | 29/8/2022 | 29/8/2022 | Three hours | Responsive | The cart appears in different ways depending on the device used. |
| 4 | 30/8/2022 | 30/8/2022 | Three hours | Functionality | User cannot enter the booking page unless he make the login first. The logout page leads you directly to the home page. When user cancel an appointments this leads him directly to appointments page. |
| 5 | 31/8/2022 | 31/8/2022 | Fife hours | Design | Hover is working on the footer and navigation bar. Space between images is suitable. In the page ground I used two images over each other on the half. |
| 6 | 1/9/2022 | 1/9/2022 | Three hours | Form validation | I checked that if any of the fields is not filled, I will receive a warning message saying (please fill out this field). If the user used any of the elements wrongly, he will directly receive a warning message conserving this particular error. The user can understand what he did wrong. Each input box has instruction information which tells the user exactly what information he needs to write. |
| 7 | 1/9/2022 | 1/9/2022 | Two hours | Validation | Login button is tested from valid and in valid account. Sign up button is also tested. |
| 8 | 2/9/2022 | 2/9/2022 | Six hours | Validation | All the links are tested that the lead to the correct page. Also, I tested that when I press on booking button, the appointment is directly added to the booking page and to database. |
| 9 | 3/9/2022 | 3/9/2022 | Fife hours | Functionality | Sign up page leads you to login page which in turn leads you to home page. Edit page leads you the appointment itself not to the appointments page. also doctor name leads you to the appointment of this doctor. |
| 10 | 4/9/2022 | 4/9/2022 | Three hours | Functionality | if I try to enter new appointment, appointment, my appointments pages without login it will leads me to login page. |
| 11 | 5/9/2022 | 5/9/2022 | Four hours | Design | I tested all elements are existed in front end. Each page in website allows me to return to home page. I ensured I have written correct spilling and content . |
| 12 | 5/9/2022 | 5/9/2022 | Fife hours | Functionality | I tested that edit and delete button make changes on database and website page. |

# Test Cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Description | Type *(Responsive, Navigation, look and feel, page titles, form validation ..etc.)* | Steps | Expected results | status |
| 1 | I want to test if user press on home link what will happen. | Functionality of Home link | Open any page then press on home link | Go to home page | pass |
| 2 | I want to test from sign up link if user presses on it what will happen. | Functionality of Sign-up link | Open home page then presses on signup link | Go to registration page (signup page) | pass |
| 3 | I want to test from login link if user press on it what will happen | Functionality of Login link | Open home page then presses on login link | Go to login page | pass |
| 4 | I want to test from logout link if user press on it what will happen | Functionality of Logout link | Open home page after press on login link press on logout link | Exit from website and go to home page | pass |
| 5 | I want to test from new appointment link if user presses on it what will happen | New appointment link | After access the website press on new appointment link | Go to booking page and from this page we can book an appointment | pass |
| 6 | If the user press on booking button what will happen? | Booking button | After access the website press on new appointment link then press on booking button | Add appointment to database and to my appointments page | pass |
| 7 | If the use presses on my appointments link what will happen and which page, he will see? | My appointments link | After access the website press on My appointments link | Go to appointments page Show us our appointments | pass |
| 8 | If the user presses on services link what will happen and which page, he will see? | Services link | Open home page then presses on Services link | go to service page | pass |
| 9 | If the user presses on name of doctor after he book an appointment what will happen? | Name of doctor | After access the website press on My appointments link then press on name of doctor | Go to appointment page | pass |
| 10 | If the user presses on delete link after he books an appointment what will happen? | Delete link | After access the website press on My appointments link then press on delete link | Go to delete page | pass |
| 11 | If the user presses on edit link after he books an appointment what will happen? | Edit link | After access the website press on My appointments link then press on edit link | Go to edit page for app | pass |
| 12 | If the user presses on remembers me button after he writes his email and password what will happen next time? | button Remember | Open login page then presses on remember button | Save email and password | Fail |
| 13 | If the user enters Correct password and email, then presses on login button what will happen? | Login button | Open login page then presses on login button | Go to the home page | pass |
| 14 | If the user enters incorrect password and email then presses on login button what will happen? | Login button | Open login page then presses on login button | Give massage (invalid email or password) | pass |
| 15 | If the user creates account for the first time, then presses sign up button what will happen? | Sign up button | Open sign-up page then presses on signup button | Go to login page | pass |
| 16 | If the user enters his information for the second time and he has already created account then pressed sign up button what will happen? | Sign up button | Open sign-up page then presses on signup button | Give massage (you already have account) | fail |
| 17 | If the user enters his email with @ in input box of email what will happen? | Validation of input box of email | Open sign-up page then fills in email | You can sign up | pass |
|  | If the user enters his email without @ in input box of email what will happen? | Validation of input box of email | Open sign-up page then fills in email | Give message  (Please include an ‘@ ‘in email address) | pass |
| 18 | If the user presses on logo from any page which have logo what will happen? | logo | Press on logo from pages which have the logo | Go to home page | pass |
| 19 | If the user presses on location link in footer what will happen? | Location link | Press on location link from pages which have this link in footer | Go to location the clinic | pass |
| 20 | If the user presses on save button after he booked an appointment, then pressd on edit link what will happen? | Save button | After access the website press on My appointments link then press on edit link and edit you appointment then press on save button | Save editing appointment and go to appointment page | pass |
| 21 | If the user presses on discard button after he booked an appointment, then pressed on edit link what will happen? | Discard button | After access the website press on My appointments link then press on edit link and edit you appointment then press on discard button | Without editing appointment and go to appointment page | Fail |
| 22 | If the user press on “Yes, I’m sure” button after he books an appointment, then presses on delete link what will happen? | “Yes, I’m sure” button | After access the website press on My appointments link then press on delete link and press on “Yes, I’m sure” button | Delete the appointment and go to my appointments page | pass |
| 23 | If the user presses on “No, go back” button after he booked an appointment, then pressed on delete link what will happen? | “No, go back”  button | After access the website press on My appointments link then press on delete link and press on “No, go back” button | Without delete the appointment and go to my appointments page | pass |
| 24 | If the user presses on phone link in footer what will happen? | Phone link | Press on phone link from any page which have this link | Call number | fail |
| 25 | When I login the website then books my appointment then exit the website and another user used my device and see my home page and press back button what will happen | Logout link and back button | Open homepage after logging out the website. anther user presses on back button. | The user will see a page with an alert says “This page require login please login to continue” | pass |

# Evaluation of the Quality Assurance (QA) process:

QA is a number of procedures through which developers ensure that website compliance and its requirements, standards and practices work correctly on all reverent devices and browsers. Before the website is accessible to users it should be examined for errors and possible failure. QA is responsible for monitoring and improving the development process to ensure that errors and failures are found and fixed as early as possible so that it will be less expensive to fix them. QA looks for bugs, errors, broken links and create a faster, cleaner and better website that works as the developer intended.

Although testing and QA are related to each other and complement each other, there is a difference between them that is testing focuses on how the user uses an experience the website, but QA focuses on the website itself and how it works against the developer intentions.

# Requirements

Requirements testing takes into consideration the expected requirements of the user and other users’ design documents which are very important throughout the development process to make sure that all the objectives of the developing team have been achieved. There are two main parts of requirement testing which are security and accessibility so that anyone can be able to access the website after logging in with a valid username and password and this was what I achieved in my website. any user with a valid password and email can access my website securely without any problem. Also, he can book, view, edit and delete an appointment.

# Design

This includes aspects such as font size, font style, spacing and color. In this step the QA checks that all the elements of the website are present and have been developed to spec. The design of the website should be modern, attracting attention of the users and easy for their eyes. For example, I used distinguished color buttons for important buttons such as red color for delete appointment and green color for save appointment. Also, I made sure that footer and header which contains navigation bar and logo are the same design and size in all pages. The layout and the space between elements are also applied properly. All the words in the content are spelt correctly. There is also clear coordination between colors.

# Front-end Development

Interface testing is very important because most users evaluate the website by the design when they first look at. If the design is poor, they will be confused and frustrated and they will leave the website which could lead to business losses. Front end QA focuses on proving implementation of interface to be both accurate and adequate to the design while serving variable content and while keeping flexibility. The website is tested across many browsers and platforms to make sure that the end user can browse the website without having problems. Every element which I planned to have in the wireframe is used actually in my website. Also, every input box has label or placeholder which describes its content. I ensured that all the links and buttons are working properly and adequately.

# Back-end Development

It is the final step of QA which evaluate the UX of the website. it ensures that all the elements of the website (links, buttons, logo) are working properly in database. It discovers bugs at an early stage which is less expensive than fixing also it improve the functional stability and robustness of the system so that we can avoid problems as data loss. In my website, I made sure that the booking button can add the appointment to the database. Also, the edit button can edit the appointment in the database. Another things is that if a user presses on my appointments button, he will see his own appointments but not the appointments of another user. The login, logout and sign up buttons do their appropriate functions not any other function. If I press delete button by mistake the appointment will not be directly deleted instead I will be given two choices to confirm deletion or going back. I did the same with the edit button. I ensured that if the user entered invalid password, he could not access the website. also he cannot book an appointment without login so I can conclude that the if statements in my code are working properly.

# Critical evaluation of the results of my Test Plan.

In my website I first tested **sign up page** and found that you can make account if you fill in your first and last name, password and email and there is no need to select the gender and city.

I made sure that sign in and home links are working properly, and the result was correct. Also, this page leads me to login. In sign up page I faced a problem that if I register from a previous account, I receive an error message and I will fix this later.

Then, I tested the **login page**. In this page we have two scenarios: happy case if I fill in with the correct password and email, it works well and it will lead me to home page. On the other hand, the bad scenario was if I fill in with incorrect password and email, I will get invalid email or password message at the top of the page. I made sure that sign up and home links are working properly, and the result was correct. In login page I faced a problem that is (remember me button) does not work and I will fix it later.

I tested the **navigation bar** with its links and all the links were working and lead to the related pages in the home page. Also, the **logo** leads me to the home page.

Then, I tested the **footer** and all the links work. Also, the logout takes me back to home page. The **new appointment link** leads me to the page where I can book an appointment. There I tested navigation bar, logo, and footer and they were all working properly.

Another thing when I press the **booking button**, it will lead me to my appointments page and will save this appointment in database. When I press on **my appointments link** or when I press booking button in new appointment page, the appointments page will appear. There I tested navigation bar, logo, and footer and they were all working properly.

If I press on the **name of doctor**, it will lead me to the appointment page. In this page I will see my appointment. There I tested navigation bar, logo, and footer and they were all working properly. In appointment page and my appointments page if I press on the **edit button**, it will lead me to the edit page where I can find two choices save button and discard button.

**The save button** leads me to the appointment where the appointment is edited. **The discard button** leads me to the appointment page and makes editing the appointment which is a problem that should be fixed in the future.

if I press on the **delete button**, it will lead me to the delete page where there are two choices: “**yes, I am sure” button** which confirms deleting the appointment and leads me to my appointments page. **“No, go back” button** which takes me back to my appointments page without deleting the appointment. In edit and delete page I tested navigation bar, logo, and footer and they were all working properly.

**Note:** if I try to enter new appointment, appointment, my appointments pages without login it will leads me to login page.

# Review of the overall success areas of the multipage website.

I successfully created my website nearly in all its parts. Any user can create an account and with the correct password and email the user can login the website. Then, the user can book, view, edit or delete an appointment successfully. Another successful part of my website is the ability to move from one page to another because the pages are connected with each other by links. All links and photos are uploaded and there is no problem with page loading. The design of my website is flexible, simple and have clear views. The colors are suitable and harmonic. Spacing is very suitable for the user’s eyes. Finally, my website is very secure; only users with invalid password or email are unable to access the website. Also, the user cannot access the website unless he has logged in so he will receive alerts in this case.

# Justified recommendations for areas that require improvement.

While I was creating my website, I faced many problems or weaknesses which need to be improved in the future. They are related to the following points:

1. Username: should be limited with a number of characters for example it shouldn’t be more than 20 characters or does not start with a symbol.
2. Password: should be limited with a number of characters for example it shouldn’t be more than 10 characters or include at least one lowercase or uppercase or curtain symbols.
3. Favicon: It is a good idea to use favicon to help users find website easily
4. Remember me: Next time I will activate remember me because it is very helpful to save users time when logging in.
5. Next time I will add forgot password link to help user retrieve his password.
6. Alert: more alerts should be activated in different pages of the website
7. Java script: JS should be used to make the website more reliable and efficient
8. Sign up: In sign, up page I faced a problem that if I register from a previous account, I receive an error message and I will fix this later
9. Discard button: The discard button makes editing the appointment which is a problem that should be fixed in the future.
10. Time and date: when I want to edit time and date, the previous time and date do not appear in the edit page.
11. Call number is not activated.
12. In the future I will add feedback feature so that I can improve the weakness in my website and improve the services offered my website.

References

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