

Sprint 2 - System Requirements

GitHub Repository: <https://github.com/kartowka/ProjectManagement>

Clubhouse Invitation Link: <https://app.clubhouse.io/invite-link/604f617d-0bed-4b4d-951a-1871a5fe9950>

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Overview:

In this project we are going to develop a healthcare system which will connect between our customer's doctors & patients who'll use the system.

The main goal of the system is to connect between the customer's user which were listed above in a way where (in a nutshell) patients would be able to make appointments to specific doctors, search for those doctors and ask them questions in a designated forum while doctors would be able to answer patient's questions question and send them appointment summary at the end of their appointments. Each user has his own custom profile page.

In addition to that, we will be using Firebase database to store all of the needed information like the user's email & password, doctors reviews and more.

As for Naming Conventions, we will be using **camelCase** for function/method names and **snake_case** for file & variable names

In this sprint, we mainly wrote system requirements & test cases accordingly while covering (hopefully) at least 95% of our to-be-built system. All requirements were uploaded to our project management workplace at Clubhouse to their respective *Epic*.

We changed the website stub from Sprint 1 to one that resembles more a health care system.

In Clubhouse, we've labeled all of our requirements under the same iteration – "*Sprint 2 - System Requirements*" to indicate the planning phase of our system.

Furthermore, we've added specific-colored labels to help us to categorize requirements & epics.

Each epic includes all labels that their requirements used as their own.

Labels like *Admin*, *Doctor*, *Patient* and *General User* (can be any user) specify the users which will use the system. *Customer* & *Developer* are self-understood, same goes for *functional* and *non-functional*.

You will see in the following list of requirements that we divided each by the epic they belong to when each epic is indicated by being in the middle of the page & by being green (like Header, Patient Page etc.).

For *Test Case Conventions*, each test case status is labeled as "TBD" (To Be Determined) because we still don't have anything to test, so *Positive* & *Negative* statuses will be used from Sprint 3 onwards.

CI/CD pipeline:

Continuous Integration:

The screenshot shows the Jenkins web interface for a project named 'ProjectManagement'. The left sidebar contains navigation links: Dashboard, Projects, Insights, Organization Settings, and Plan. The main area displays a table of pipeline runs. Each run is associated with a commit on the 'master' branch. The status of each run is 'Success', and the workflow is 'build-and-test'. The table includes columns for Pipeline, Status, Workflow, Branch / Commit, Start, Duration, and Actions.

PIPELINE	STATUS	WORKFLOW	BRANCH / COMMIT	START	DURATION	ACTIONS
ProjectManagement 3*	Success	build-and-test	master dfcd9bb GRAMMAR	2m ago	13s	View build log Compare diff Cancel Re-run
Jobs						
build-and-test 30						
ProjectManagement 2*	Success	build-and-test	master fa2d40b updated newlines	11m ago	13s	View build log Compare diff Cancel Re-run
Jobs						
build-and-test 36						
ProjectManagement 3*	Success	build-and-test	master 71a07f7 completed PLAIN file for the 1st sprint	18m ago	12s	View build log Compare diff Cancel Re-run
Jobs						
build-and-test 36						
ProjectManagement 3*	Success	build-and-test	master 1442aca added link to eas file, changed alignment between h1 and h2	4c ago	12s	View build log Compare diff Cancel Re-run
Jobs						
build-and-test 34						

Continuous Development:

The screenshot shows the 'Deployments / Activity log' page in Jenkins. It lists several deployment events for the 'projectmanagementsce' project. Each entry includes the commit hash, the user who deployed it, the time ago, and the status (Active or Inactive).

Commit Hash	Deployed by	Time Ago	Status
dfcd9bb	kartowka	8 minutes ago	Active
fa2d40b	kartowka	17 minutes ago	Inactive
71a07f7	kartowka	25 minutes ago	Inactive
1442aca	kartowka	4 days ago	Inactive
81b0cf2	kartowka	6 days ago	Inactive
948f43f	kartowka	6 days ago	Inactive

The screenshot shows the 'Deployments / Activity log' page in Jenkins. It lists several deployment events for the 'projectmanagementsce' project. Each entry includes the commit hash, the user who deployed it, the time ago, and the status (Active or Inactive).

Commit Hash	Deployed by	Time Ago	Status
5363a5b1	imso3k@gmail.com	Today at 11:50 AM	Active
dfcd9bb5	antonfley@gmail.com	Today at 11:44 AM	Inactive
fa2d40b0	antonfley@gmail.com	Today at 11:35 AM	Inactive
71a07f71	antonfley@gmail.com	Today at 11:28 AM	Inactive

Links:

Integration

- [CircleCI](#)

Deployment

- [Heroku](#)

Header

Functional:

1. As the Customer, I would like that our header will include a navbar (navigation bar), so our users will have easy access to what our website offers.
2. As the Customer, I would like that our navbar will include a "Home" button so our user would be able to jump straight to our homepage whenever they like.
3. As the Customer, I want that our navbar will include a "Sign up" button so our users will be able to redirect themselves to our sign-up page & register.
4. As the Customer, I want that our navbar will include a "Login" button so our users will be able to redirect themselves to our Login page & register to the website.
5. As the Customer, I want that our navbar will include an "About us" button so our users will be able to redirect themselves to our information section in the Home page & get some information about us.
6. As the Customer, I want our header to include our company logo so our users will know to whom this website belongs to.
7. As the Customer, I want our logo to redirect users to our homepage so our users will have another easy access to get there.

Test Cases:

No	Test Case	Status
1	Verify that the header loads up in every page.	TBD
2	Verify that the navbar shows up in its proper location (Header).	TBD
3	Verify that the navbar is visible to the user.	TBD
4	Verify that the navbar has a "Home" button.	TBD
5	Verify that the "Home" button redirects to the homepage.	TBD
6	Verify that the navbar has a "Signup" button.	TBD
7	Verify that the "Sign up" button redirects to the registration page.	TBD
8	Verify that the navbar has a "Login" button.	TBD
9	Verify that the "Login" button redirects to the log in page.	TBD
10	Verify that the navbar has a "About us" button.	TBD

11	Verify that the “About us” button redirects to the About us page.	TBD
12	Verify that the customer logo is visible to all users.	TBD
13	Verify that the customer’s logo appears in its proper location (Header).	TBD
14	Verify that by clicking the customer’s logo it will redirect to the homepage.	TBD

Users & Their Permissions

Functional:

1. As the Customer, I want my website to have different types of users so I will be able to distinguish between different users.
2. As the Customer, I want to have an Admin user type so I will have a user who supervises the entire website.
3. As the Customer, I would like my Admin to be able to authorize new Admins so I will have some sort of an administrative structure below me.
4. As the Customer, I want my Admin to be able to authorize new Doctors and verify them by their certificate so I will know that my Doctors are not pretenders.
5. As the Customer, I want my Admin to be able to authorize new forums for our Doctors so I will know that a responsible figure manages it.
6. As the Customer, I want to have a Patient user type so I will have designated permissions & capabilities to our clients.
7. As the Customer, I want my Patient to be able to make appointments with our Doctors to satisfy the basic & modern age need to be able to do it remotely & with ease.
8. As the Customer, I want my Patient to be able to search for Doctors so he will be able to see who can treat his medical issue.
9. As the Customer, I want the Patient to be able to filter his search results to have more concentrated results according to his will.
10. As the Customer, I want the Patient to have the option to sort his search results to improve his UX when trying to find his Doctor.
11. As the Customer, I want to have a Doctor user type so our Doctors would be able to manage their daily work (e.g., see appointment history, answer Patient's questions).

Test Cases:

No	Test Case	Status
1	Verify that there are 3 types of users (admin, doctor, patient) in the database.	TBD
2	Verify that the admin can authorize new admins.	TBD
3	Verify that the to-be-authorized forums are displayed to the admin.	TBD
4	Verify that the admin can authorize new forums.	TBD
5	Verify that the to-be-authorized doctors are displayed to the admin.	TBD
6	Verify that the admin can authorize new doctors.	TBD
7	Verify that the admin can see the doctor's certificate.	TBD
8	Verify that the Patient has the permission to book an appointment in his profile.	TBD
9	Verify that the Patient has the permission to search for doctors.	TBD
10	Verify that the Patient has the permission to filter his search results.	TBD

Home page

Functional:

1. As the Customer, I would like that the Homepage will be pictures of our Doctors, to design our website & give some information about them in advance.
2. As the Customer, I would like our homepage to include slides of our Doctors pictures so our Patients will have some visual information of some of the Doctors of work with us.
3. As the Customer I would like that the Doctors pictures slides will include a left & right button so our users will be able to navigate manually between the pictures.

Test Cases:

No	Test Case	Status
1	Verify that the homepage load properly.	TBD
2	Verify that the homepage has pictures of doctors.	TBD
3	Verify that the pictures are visible to our users.	TBD
4	Verify that pictures of our doctors are presented in slides.	TBD
5	Verify that the left & right buttons change pictures to their respective direction.	TBD

Signup Page

Functional:

1. As a Developer, I would like to alert the user who's trying to register if the password does not comply with the password policy to assure our users cyber security.
2. As a Developer, I would like that all the details related to the registration form should be filled, so that the signup form is successfully done.
3. As a Developer, I would like to have the option to sign up as a Doctor/Patient, so the system would know which registration form to represent to him.
4. As a Developer, I would like to have the option when the signup form is completed, confirmation mail will be sent to the requester, so that he knows he's done with the registration.
5. As a Doctor, I would like to have whenever I choose a Doctor role, hidden fields related to "Doctor" will be shown so I will be able to fill fields which relate to Doctors only.
6. As a Doctor, I would like to be transferred to a page where I can insert my details, so that Patients can see my details later on.

Non - Functional:

7. As the Customer, I would like for the user to enter a password longer than 7 characters, the characters must include letters, numbers and special characters, to make it difficult to hack into the user's account.
8. As a Developer, I would like to hide the user's password while typing, to maintain user privacy and information security.
9. As a Developer, I would like that the system will alert the user about errors in one of the fields in the signup form, so that he knows where to fix it.

Test Cases:

No	Test Case	Status
1	Verify that the login page loads properly.	TBD
2	Verify that the page alerts the user and specifies the problem if his password doesn't comply with the password policy.	TBD
3	Verify that each user can't finish his registration without filling all the necessary fields.	TBD
4	Verify that each user (patient, doctor) has his own registration form.	TBD
5	Verify that each text field is visible to the user.	TBD
6	Verify that each text field can be written in.	TBD
7	Verify that each user can pick his user type.	TBD
8	Verify that the complete registration button (for both users) is visible.	TBD
9	Verify that the complete registration button (for both users) completes the registration.	TBD
10	Verify that a registration confirmation is sent to the user.	TBD
11	Verify that the registration confirmation has a link to the website.	TBD
12	Verify that the link in the registration confirmation redirects to the website.	TBD
12	Verify that doctor specifically has his own unique registration fields.	TBD
13	Verify that the doctor is redirected to his next step in his registration process.	TBD

14	Verify that the doctor can see his extra forms	TBD
15	Verify that the doctor is able to fill his extra forms	TBD
16	Verify that the password is hidden when typed by the user.	TBD
17	Verify that a proper error is shown if the user didn't fill a field (which is not the password) correctly.	TBD

Login Page

Functional:

1. As a General User, I want to sign into the site using my email and password, so I can connect to my account and see all my details.
2. As a General User, I want to be able change my password by pressing on the "forgot password" option, if I forget my password, I can change it with validation of email.
3. As a Developer, I want an email legitimacy check so users who are trying to login to the website will know if their inputted email is legitimate or not.
4. As a Developer, I want a password legitimacy check so users who are trying to login to the website will know if their inputted password is legitimate or not.
5. As a Developer, I want that only registered users (who exist in the database) would be able to log in so unregistered users wouldn't be able to use our services.

Non - Functional:

6. As a Developer, I want that if it is found that the information entered by the user is not registered in the system, an error message will be displayed to the user that "your email is incorrect".

Test Cases:

No	Test Case	Status
1	Verify that the login page load properly.	TBD
2	Verify that entering email and pass, pressing login button will transfer to next page (user page).	TBD
3	Verify that pressing forgot password transfer to forgot password page.	TBD
4	Verify that mail sent to the requester.	TBD
5	Verify that unregistered user can use any of our services.	TBD
6	Verify that message appear when insert wrong credentials.	TBD

Authorization

Functional:

1. As an Admin, I want to be able to authorize Doctors via email so I will be able to verify them.
2. As an Admin, I would like to authorize the new forums after I reviewed them, so that the body in charge of the system will be the one doing it.

Test Cases:

No	Test Case	Status
1	Verify that admin can verify doctor by email.	TBD
2	Verify that admin review new forums.	TBD
3	Verify that admin can authenticate new forums.	TBD

Patient Page

Functional:

1. As a Patient, I would like to have my full name on my profile page so that a Doctor can see my personal information when he enters my profile page.
2. As a Patient, I want my email to appear on my profile page so that a Doctor can see my email when he enters my profile page.
3. As a Patient, I want the clinic I am associated with to appear on my profile page so Doctors who enter my profile will know which clinic I'm insured with.
4. As a Patient, I want to have a menu of , " Last 5 appointments" in my personal page so I will be able to see a quick summary of my last appointments.
5. As a Patient, I want the , " Last 5 appointments" menu to be collapsed by default so I will be able to have the option to expand it only when I want to.
6. As a Patient, I want the , " Last 5 appointments" menu to have the option to be collapsed when it's expanded to hide the data after I finished looking at it.
7. As a Patient, I would like the , " Last 5 appointments" to have an option to redirect me to my whole appointments record in case I want to check it in its entirety.
8. As a Patient, I would be able to send my contact information and a note to Doctors privately to maintain medical confidentiality.
9. As the Customer, I would like that patient page will include a toolbar, so our patient will have easy access to pages his profile has.
10. As the Customer, I want the Patient's toolbar to include a "Personal Profile" button, so he will have an easy way to access his personal default page.
11. As the Customer, I want the Patient's toolbar to include a "Previous Appointments" button, so he will have an easy way see his appointments record.
12. As the Customer, I want the Patient's toolbar to include a "Future Appointments" button, so he will have an easy way see his scheduled appointments.
13. As a Patient, I would like to be able to redirect myself to my "Personal profile" page so I will have an easy access to it anywhere in the website.
14. As a Patient, I want to be able to edit my full name so I will be able to update it in case I changed my name or typed it wrong when I registered.

15. As a Patient I want to be able to edit my email address so I will have the option to update an un-used email.
16. As a Patient, I would like to be able to change the clinic I'm currently insured at in case I signed a new insurance policy with another clinic.

Test Cases:

No	Test Case	Status
1	Verify that the patient page load properly.	TBD
2	Verify that patient full name appears in profile page.	TBD
3	Verify that patient email appears in profile page.	TBD
4	Verify that patient clinic associated with appears in profile page.	TBD
5	Verify that patient last 5 appointment appears in profile page.	TBD
6	Verify that appointments have quick summary.	TBD
7	Verify that last 5 appointment collapsed by default.	TBD
8	Verify that last 5 appointment can be collapsed when it expended.	TBD
9	Verify that it redirects me to the whole appointment by pressing the needed appointment.	TBD
10	Verify that patient can send a note with personal info to doctors privately.	TBD
11	Verify that toolbar exist in patient page and have accesses to pages he has.	TBD
12	Verify that toolbar contain personal profile button.	TBD
13	Verify that toolbar contain previous appointments button.	TBD
14	Verify that toolbar contain future appointments button.	TBD
15	Verify that patient can update his name.	TBD
16	Verify that patient can update his email.	TBD
17	Verify that patient can update his clinic associated with.	TBD

Doctor Page

Functional:

1. As a Doctor, I would like to have a page with all my details, so the Patient will have a better knowledge of who is going to treat him.
2. As a Doctor, I would like to have my full name in my public page so the Patient will know my personal name.
3. As a Doctor, I want my public page to include my working days so the Patient will know when he can book an appointment with me.
4. As a Doctor, I want that my public page will have the location of my clinic/where I work at so the Patient will know where he will get his treatment at.
5. As a Doctor, I would like that my personal page will have some brief description on me, just so the Patient will get to know me a little bit and have more knowledge about me.
6. As a Doctor, I want to have a list of clinics I work with so the Patient can know if it's possible to get treated by me according to the clinic he belongs to.
7. As a Patient, I want to see all of the Doctor reviews so I can decide whether to go to that Doctor based on reviews given to him by his Patients.
8. As a Doctor I would like that my page will include a toolbar, so I will have easy access to pages in my profile.
9. As a Doctor I would like the "Personal Profile" option to appear in my toolbar to view or update my personal details if necessary.
10. As a Doctor, I would like to be able to redirect myself to my "Personal profile" page so I will have an easy access to it anywhere in the website.
11. As a Doctor I would like the ," Future Appointments" option to appear in my toolbar to view all appointments related to me.
12. As a Doctor I would like the "Appointment Summary" option to appear in my toolbar so that I can view my appointment summaries quickly and easily.
13. As a Doctor I would like a "General Rating" option to appear on the toolbar so that I can view my ranking as a Doctor.
14. As a doctor I would like the "Opinions about me" option to appear in the toolbar so I can see my patients' opinions about me.

15. As a Doctor I would like my description of my medical "expertise" to appear in my description so that my patients receive the right treatment for them.
16. As a Doctor I would like the "address" of the clinic to appear in my description so that my patients know how to get to the clinic.
17. As a Doctor I would like to see in my description ,” Languages” that I speak, in order to better communicate with patients who, speak the same language.
18. As a Doctor, I would like my doctor to get a ,” license number” in my description so that patients will see that I am qualified to be a doctor.
19. As a Doctor I would like my description to include the clinic's "phone number" so that patients know in case they want information.
20. As a Doctor I would like my description to include my ,” Reception hours” so that my patients know what hours an appointment can be made.
21. As a Doctor I would like the ability to update my personal details so that my information is up to date.
22. As a Doctor I would like the ability to update my reception hours so patients can schedule an appointment at the right time.

Test Cases:

No	Test Case	Status
1	Verify that the doctor page load properly.	TBD
2	Verify that doctor have page with his full details.	TBD
3	Verify that doctor full name appears in his public page	TBD
4	Verify that doctor public page contain doctor working days.	TBD
5	Verify that doctor public page contains doctor clinic location.	TBD
6	Verify that doctor public page contains doctor bio.	TBD
7	Verify that doctor public page contains associated clinic working with.	TBD
8	Verify that doctor public page contains reviews made by others.	TBD
9	Verify that doctor private page contain toolbar.	TBD
10	Verify that personal profile button appears in in the toolbar.	TBD

11	Verify that personal page contains future appointments button in the toolbar.	TBD
12	Verify that toolbar contains appointment summary button.	TBD
13	Verify that toolbar contain general rating button.	TBD
14	Verify that toolbar contain opinion about me button.	TBD
15	Verify that doctor medical expertise appears in doctor public page.	TBD
16	Verify that doctor can edit clinic address so it appears in the doctor public page.	TBD
17	Verify that spoken languages appears in doctor public page.	TBD
18	Verify that license number (certificate) appears in doctor public page.	TBD
19	Verify that phone number appears in doctor public page.	TBD
20	Verify that working hours appears in doctor public page.	TBD
20	Verify that doctor can update his personal info in personal page.	TBD
21	Verify that doctor can update his working hours in personal page.	TBD

Web Search Engine

Functional:

1. As a Patient, I would like to be able to search for doctors using a free text search box so I will be able to find doctors more easily.
2. As a Patient, I would like to be able to filter the search results so it will be easier to find a doctor.
3. As a Patient, I would like to have the ability to sort my results in ascending & descending so it will be easier to find doctors I need by alphabetical order of names, working field or city.
4. As a Patient, I would like to filter my search results by a Doctor`s personal name to find all the Doctors I need who are called by that name.
5. As a Patient, I would like to filter my search results by a Doctor`s last name to find all the Doctors I need which have that last name.

6. As a Patient, I would like to filter my search results by a certain area (e.g. north, south, coastline) to find the Doctors who offer their services in my area.
7. As a Patient, I want to filter my search results by a certain city to find the Doctors who offer their services in my city.
8. As a Patient, I want to filter my search results by the type of service I need to find the Doctors who can treat my specific needs.
9. As a Patient, I want to filter my search results by the working days so I will be able to set an appointment when I can (timewise).
10. As a Patient, I would like to filter my search results by a spoken language so I will be able to meet a Doctor who talks my native language.
11. As a Patient, I would like to sort my search results by a Doctor's personal name to ease my search for a Doctor with that personal name.
12. As a Patient, I would like to sort my search results by a Doctor's last name to ease my search for a Doctor with that last name.
13. As a Patient, I want to sort my search results by the area the Doctors work at so I will be able to see all the Doctors who offer their services in a sorted area list.
14. As a Patient, I want to sort my search results by the cities the Doctors work at so I will be able to see all the Doctors who offer their services in a sorted city list.
15. As a Patient, I would like to sort my search results by the Doctors working field to see all the Doctors who offer services in every working field in a sorted list.
16. As a Patient, I would like to sort my search results by the Doctors working days so I will know which Doctors I can make an appointment for each day of the week.
17. As a Patient, I would like to sort my search results by the Doctors spoken language to see in a sorted list all the doctors who offer their services in each language.
18. As a Patient, I would like the search results to include the following details of the Doctors: full name, specialization, clinics he treats, and a score he received in the rankings to have a better understanding of my search results.

Test Cases:

No	Test Case	Status
1	Verify that the Patient has a search box for text.	TBD
2	Verify that the Patient can type text inside a search box.	TBD
3	Verify that the Patient has a search button.	TBD
4	Verify that the Patient can click the search button.	TBD
5	Verify that after the Patient clicks on the "Search" button, he is taken to a page with search results.	TBD
6	Verify that the filtering options are present.	TBD
7	Verify that Patient has an option button to sort doctor name search results by alphabetical order.	TBD
8	Verify that Patient has an option button to sort working field search results by alphabetical order.	TBD
9	Verify that Patient has an option button to sort city search results by alphabetical order.	TBD
10	Verify that Patient has an option button to filter the search results by a Doctor's personal name.	TBD
11	Verify that Patient has an option button to filter the search results by a Doctor's last name.	TBD
12	Verify that Patient has an option button to filter the search results by a certain area (e.g. north, south, coastline).	TBD
13	Verify that Patient has an option button to filter the search results by a certain city.	TBD
14	Verify that Patient has an option button to filter the search results by working days.	TBD
15	Verify that Patient has an option button to filter the search results by the spoken language.	TBD
16	Verify that Patient has an option button to sort the search results by a Doctor's personal name.	TBD
17	Verify that Patient has an option button to sort the search results by a Doctor's last name.	TBD

18	Verify that Patient has an option button to sort the search results by the area the Doctors.	TBD
19	Verify that Patient has an option button to sort the search results by the cities that Doctors work at.	TBD
20	Verify that Patient has an option button to sort the search results by the Doctors working field.	TBD
21	Verify that Patient has an option button to sort the search results by the Doctors spoken language.	TBD
22	Verify that Patient has an option button to sort the search results by the Doctors working days.	TBD
23	Verify that after clicking the "Search" button, the data will be displayed in a table with columns of results included the following details of the Doctors: full name, specialization, clinics he treats, and a score he received in the rankings.	TBD
24	Verify that the sorting options are present.	TBD

Appointment Record

Functional:

1. As a Doctor, I would like to have records of my appointments so I will have an arranged form of data to easily pull it up in continued treatment, or in any other reference needs.
2. As a Patient, I would like to see all of my appointment records so I will have a written proof of my appointments, remember details from it etc.
3. As a Patient, I want my appointments record to have the exact time each of my appointments started to know when my session with my Doctor started.
4. As a Patient, I want my appointments record to have the exact time each of my appointments ended to know when my session with my Doctor ended.
5. As a Patient, I would like my appointments record to have the date of my appointment so I will be able to know in which day, month and year (DD/MM/YYYY format) I visited my Doctor.

6. As a Patient, I want my appointments record to include the name of the Doctor who attended me so I will know to whom I went in that appointment.
7. As a Patient, I want my appointments record to have the working field of the Doctor who treated me to have a more general idea of the type of appointment I had.
8. As a Patient, I would like my appointments record to include the place (i.e., street & city) where my appointment took place to have a more general idea of where I've been in that particular appointment.
9. As a Patient, I want my appointments record to have telephone numbers which I can call to, to book a new appointment so I will know to whom I can call to schedule a new appointment with that specific Doctor.
10. As a Patient, I would like my appointments record to have the type of appointment I had (i.e., frontal, remote) to know how I got that treatment.
11. As a Patient, I would like to see all of my appointment's summary, so that I can use the information for my personal purpose.

Test Cases:

No	Test Case	Status
1	Verify that the Doctor can see "records of appointments" after he clicked this button.	TBD
2	Verify that the Patient can see "records of appointments" after he clicked this button.	TBD
3	Verify that the Patient can see all the starting time of each appointment record.	TBD
4	Verify that the Patient can see all the end time each of his appointment record.	TBD
5	Verify that the Patient can see the date of the appointments record in format DD/MM/YYYY.	TBD
6	Verify that the Patient can see the name of the doctor who attended them in the appointments record.	TBD
7	Verify that the Patient can see the working field of the doctor who attended them in the appointments record.	TBD

8	Verify that the Patient can see the place (i.e., street & city) where the appointment took place in the appointments record.	TBD
9	Verify that the Patient can see the telephone number of the clinic in the appointments record.	TBD
10	Verify that the Patient can see the type of appointment (i.e., frontal, remote) in the appointments record.	TBD
11	Verify that the Patient can see the appointment's summary in the appointments record.	TBD

Appointment Management

Functional:

1. As a Doctor, I would like to have the ability to send appointment summary to my clients at the end of the appointment so they can have a written form of our session.
2. As a Patient, I would like to be able to book appointments only to doctors who offer services to my clinic so it won't cost me any additional fees.
3. As a Doctor, I would like that the Patient would be able to make appointments only in available time, to avoid collisions in the queue.
4. As a Patient, I want to be able to book appointments in the website so I will have an easy way to do it remotely.
5. As a Patient, I want to have an option to see my future appointments so I will be able to time my schedule accordingly.
6. As a Doctor, I want to have an option to see my future appointments so I will be able to see my future working day.

Test Cases:

No	Test Case	Status
1	Verify that the Doctor has an option to send appointment summary to the clients at the end of the appointment.	TBD
2	Verify that the Patient has an option to book appointments only to doctors who offer services to the clinic.	TBD
3	Verify that the Patient has an option to schedule appointments only in available Doctor's time.	TBD
4	Verify that the Doctor has an option to see the appointments in his schedule.	TBD
5	Verify that the Patient has an option to book appointments on the website.	TBD
6	Verify that the Patient has an option to see the appointments that he schedules.	TBD

Appointment Satisfaction

Functional:

1. As a Patient, I would like to have the ability to rank the satisfaction level of the Doctor after my appointment with him is over so he can know my feedback about him
2. As a Patient, I would like to require that I will be able to post reviews on the Doctor's private page, to give a personal opinion on the Doctor's treatment.
3. As a Patient, I want to have a scale of satisfaction level (e.g., 1 to 5) so I will have a variety of options to suit my satisfaction of my treatment.
4. As the Customer, I want the reviews Patients leave to Doctors to be public so others can know how good or bad he was.

Test Cases:

5. №	Test Case	Status
1	Verify that the Patient has an option to rank the satisfaction level of the Doctor when the appointment is over.	TBD
2	Verify that after clicking the "Rate" button the rating is automatically updated in the doctor's profile.	TBD
3	Verify that the Patient has an option to post review on Doctor's private page.	TBD
4	Verify that after clicking on "Post" button the review will be display at Doctor reviews.	TBD
5	Verify that the Patient has radio button option in scale of 1-5 in rate option.	TBD
6	Verify if the Patient can select the relevant rating for him.	TBD
7	Verify that after the Patient clicking on " leave a feedback" button, a text box will open.	TBD
8	Verify that the patient can type text in the text box.	TBD
9	Verify that all Patient reviews are publicly viewable.	TBD

Forum

Functional:

1. As a Doctor, I would like to be able to open public forums where I could answer questions, so that Patients can receive an online answering service.
2. As a Doctor, I would like to be able to delete questions from the forum to avoid unrelated or spam questions.
3. As a Patient, I want to be able to ask questions in the forum so I will be able to get professional advice from Doctors.
4. As a Patient I would like to edit my question in the forum so I will be able to fix mistakes I've made in my original question.

5. As a Doctor, I want to be able to edit Patient question so I will be able to force-fix any mistakes that were made by the Patient.
6. As a General User, I want to be able to reply to questions or answers so I will be able to continue the conversation.

Test Cases:

No	Test Case	Status
1	Verify that the doctor is presented with a button to create a new forum.	TBD
2	Verify that the user can see the forum button.	TBD
	Verify that after the user clicks on the button of the forum, he will be transferred to the forum page.	TBD
	Verify that the user can see the questions in the forum.	
3	Verify that the user can see the answers in the forum.	TBD
4	Verify that the doctor has a delete button next to each question that was asked by a patient.	TBD
5	Verify that after the doctor presses the delete button the question will not be displayed in the forum.	TBD
6	Verify that the patient can see the button "New question" in the forum page.	TBD
7	Verify that after the patient clicks on the "New question" button he will be redirected to the question editor.	TBD
8	Verify that in the question editor has button "Post".	TBD
9	Verify that after the patient click on the button "Post" the question will be displayed in the forum.	TBD
10	Verify that the patient has a button "Edit" next to the question that he wrote in the forum.	TBD
11	Verify that after the patient clicks on the button "Edit" he will be redirected to the question editor.	TBD
12	Verify that the question has the button "Save".	TBD

13	Verify that after the patient clicks on the button "Save" the newly edited question will be displayed in the forum.	TBD
14	Verify that the doctor has a button "Edit" next to each question in his forum.	TBD
15	Verify that after the doctor click on the button "Edit" he will be redirected to the question editor.	TBD
16	Verify the question editor of the doctor has button "Save".	TBD
17	Verify that after the doctor clicks on the button "Save" the newly edited question will be displayed in the forum.	TBD
18	Verify that the user can reply to questions or answers in the forum.	TBD
19	Verify that the user can see next to each question or answer in the forum the button "reply".	TBD
20	Verify that after the user clicks on the button "Reply" a text box will be opened.	TBD
21	Verify that the Replay textbox has the button "Post".	TBD
22	Verify that after the user click on the button "Post" the replay of the questions/answer will be displayed in the forum.	TBD

404 - Not Found Page

Functional:

1. As a Developer, I want to have a 404 page so users will be redirected to him in case they are trying to reach a page that doesn't exist.
2. As the Customer, I want that our 404 page will have an "return to homepage" button so users will have an easy way to go back to our main page from the not existent one.

Test Cases:

No	Test Case	Status
1	Verify that when user trying to reach page doesn't exist, he will be transferred to a 404 page.	TBD
2	Verify that when user is in 404 page, the page will display a button "return to homepage".	TBD
3	Verify that after the user clicks on button "return to homepage", he will be transferred to the Home page.	TBD

Footer

Functional:

1. As the Customer, I want my website to have a copyrights signature in the bottom of the website so users will know that we have the right for this product.

Test Cases:

No	Test Case	Status
1	Verify that the footer is placed at the bottom of each page	TBD
2	Verify that the user can see the copyrights signature in the bottom of the website.	TBD

Non-Functional (System):

2. As the Customer, I want the website to have an accessibility option so that people with handicap capabilities (e.g., color blind, vision impaired) could use the website while their special needs are taken care of.
3. As a General User, I want the website to be available for at least 98% of the time, that way my user experience will be almost flawless.
4. As the Customer, I want the website to comply with the local & international laws to ensure legality of the product.
5. As the Customer, I would like to ensure data integrity to my system so that data will not be modified, altered or deleted without proper authorization.
6. As the Customer, I want the development team to follow our development environment habits like using node-js, express and git workflow so it will meet our development standards.
7. As the Customer, I would like to have a full documentation of the project (from development process to how-to-run) so we will be able to better understand what was done during development cycles and how we actually run the website.
8. As the Customer, I want the source code to be extensive in a way that it's as easy as possible to implement new extensions in case we want to continue development with you or any other party.
9. As the Customer, I want the project to be as flexible as possible so that we will be able to make changes in the future when it comes to requirements and implement them as comfortably as our development team can.
10. As the Customer, I want the website to be available in English so that every user, either local or international can understand verbally what is going on in the website.
11. As the Customer, I want the development team to license the source code of the project in GitHub (MIT license preferably) to have certain rules of who can use the project & how.
12. As the Customer, I want the project to be as maintainable as possible so that in the case of defects or worn-out components, it will be as convenient as possible for repairment.
13. As the Customer, I want the source code to be open source so that 3rd party developers would be able to offer & integrate new features.

14. As the Customer, I want the website to be compatible with different systems or browsers like Windows/Mac or Chrome/Firefox respectively so the user would be able to use the website from different types of personal preferred systems he uses.
15. As a General User, I want the website to comply with the international privacy laws to ensure my data won't be sold or used by a 3rd party organization.
16. As the Customer, I want the website to be able to run on different devices like PC, smartphone and tablet so that the user can browse it either with his desktop-type device or portable-type device.
17. As the Customer, I want the source code to be understandable & readable so in case we continue our project with a different development team, they can understand what has been done & continue from there.
18. As the Customer, I want the product components to be reusable so in case we want to expand the system to have more capabilities, we would be able to rely on present assets to implement them.
19. As the Customer, I would like the website to be able to withstand errors during execution so we will have some sort of fail-safe mechanism to minimize damages in user experience.
20. As the Customer, I want the system to be scalable so we would be able to add new features without compromising quality of work and the quality of the product itself.
21. As a General User, I want my data to be stored in a secure database so no malicious 3rd party group/person would be able to use my personal data against me or generally on the web.
22. As the Customer, I want the reviews that Patients write on Doctors to be visible to all to have some sort of transparency with anyone who would like to use that specific Doctor's services.
23. As a General User, I want that when I send a note to the doctor, it will be encapsulated from any user which is not the doctor to ensure patient-doctor privileges.
24. As a Developer, I want our email legitimacy policy to be in a format of {characters}@{domain_name} so our policy will comply to the general email policy.

Test Cases:

No	Test Case	Status
1	Verify that the website has an “accessibility option”.	TBD
2	Verify that the “accessibility option” has “increase text size” option.	TBD
3	Verify that the “accessibility option” has “invert colors” option.	TBD
4	Verify that the user can increase the text on the website to 125%.	TBD
5	Verify that the user can increase the text on the website to 150%	TBD
6	Verify that the user can invert the colors of the website for the visually impaired.	TBD
7	Verify that the user can change back to the default colors.	TBD
8	Verify the data integrity in the database.	TBD
9	Verify that the user has "English" button when the text on the website is displayed in Hebrew.	TBD
10	Verify that the user has "Hebrew" button when the text on the website is displayed in English.	TBD
11	Verify that after the user clicks on the button "Hebrew", The text on the website will be displayed in Hebrew.	TBD
12	Verify that after the user clicks on the button "English", The text on the website will be displayed in English.	TBD
13	Verify that the website is compatible with Firefox browsers version 87 and up.	TBD
14	Verify that the website is compatible with Chrome browsers version 89 and up.	TBD
15	Verify that the website is compatible with Safari browsers version 13 and up.	TBD
16	Verify that the website can run on smartphone browsers.	TBD
17	Verify that the website can run on tablet browsers.	TBD
18	Verify that the product components can be reusable.	TBD
19	Verify that the system to be scalable without compromising quality of work and the quality of the product itself.	TBD

20	Verify that the databases we use to store our data are secure databases.	TBD
21	Verify that the user can see reviews that patients wrote on doctors.	TBD
22	Verify that the note that the patient sends to the doctor, will be encapsulated from any other user.	TBD
23	Verify that the website email legitimacy policy to be comply to the general email policy.	TBD

Database

Non-Functional:

1. As a Developer, I would like that all users registered on the site be kept in a database after registering on the site, so that when a user login to the site, a check is made as to whether the user is registered in the system.
2. As a Developer, I would like to save all future appointments records in a database so that Patients & Doctors can see their future appointments each in his own page.
3. As a Developer, I would like to save all information about the Patient in a database, when a Patient enters his profile, he will be shown his details stored in the database.
4. As a Developer, I want to save all the information of the Doctor forum so that when a Doctor or Patient enters the forum, the information of the forum stored in the database will be displayed.
5. As a Developer, I would like to require that registration for the site be done by a unique email for each user, so that each user will have only one record in the database according to his email address and password.
6. As a Developer, I would like to save all information about the Doctor in a database so that whenever a user enters a Doctor's profile, the information stored in a database about that Doctor will be displayed on the Doctor's profile page.
7. As a Developer, I would like to require that all a Patient's previous appointment summaries be kept in a database so that whenever a Patient wants to view the previous

appointment summaries, he will be shown all of his previous appointments stored in the database.

8. As a Developer, I would like to save all reviews on the Doctor's in a database so that whenever a user enters a Doctor's profile, the information stored in a database about that Doctor will be displayed on the Doctor's profile page.

Requirement Division by Sprint

Sprint 3 – 60% of REQ	Sprint 4 – 40% of REQ
Header	Authorization (REQ #2)
Users & Their Permissions	Doctor Page (REQ #13-22)
Homepage	Patient Page (REQ #4-8)
Signup Page	Web Search Engine
Login Page	Appointment Management
Authorization (REQ #1)	Appointments Record
Patient Page (REQ #1-3, 9-16)	Patient Satisfaction
Doctor Page (REQ #1-12)	Forum
404 – Not Found	
Footer	
Non-Functional	
Database	