**Assignment 2: Software Requirements Specification**

<https://github.com/WSU-4110/RxGo/issues>

Team: Group 4

Project Title: RxGo

## Members:

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| **Meetings date** | **Participants** |
| 02/03/2022 | All |
| 02/05/2022 | All |

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| **Stakeholders** | **Requirements** |
| Patients | FR7: Refill Requests  FR10: Refill Status  FR11: Doctor Search  FR16: Doctor Save |
| Doctors | FR8: Appointment Requests  FR9: Add Prescription  FR13: Patient Search  FR14: Save Patient  FR15: Refill Response |
| All | NR1: Performance  NR2: Privacy  NR3: Usability  NR4: Reliability  NR5: Security  FR1: Profile Setup  FR2: Drug Information  FR3: Account Registration  FR4: Login  FR5: Notifications  FR6: Messaging  FR12: Patient History |

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| **NR1. Performance** | | | |
| Goal: The system should work in a timely manner to retrieve and send patient information as needed | | | |
| Stakeholders: All | | | |
| Performance needs to work well enough so that patients don't have to wait for transactions and certain requests. | | | |
| Origin: Based on the initial project specification document, team members came up with this description during the first meeting. | | | |
| Version: 1.0 | Date: 02/03/2022 |  | Priority: 1 |

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| **NR2. Privacy** | | | |
| Goal: The system should be secure and should keep all of the patients' information and medical history confidential | | | |
| Stakeholders: All | | | |
| Privacy is important because users would not want their personal information shared with people other than their medical doctors. | | | |
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| **NR3. Usability** | | | |
| Goal: The app should have all the labels needed to direct the user and simplify the use of the application. | | | |
| Stakeholders: All | | | |
| If the app is complicated or difficult to use then patients would struggle and it would deter people from using it. | | | |
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| **NR4. Reliability** | | | |
| Goal: The application needs to be dependable meet the expectation of the users. | | | |
| Stakeholders: All | | | |
| The features should be able to function well and be responsive. | | | |
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| **NR5. Security** | | | |
| Goal: The system should protect user information | | | |
| Stakeholders: All | | | |
| If user information is not secured then patients will not be willing to use the app. The app should protect the medical and prescription history of patients by not allowing non-medical personnel to view their information. | | | |
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| **FR1. Profile Setup** | | | |
| Goal: The application should allow the patient/doctor to see their account information. | | | |
| Stakeholders: All | | | |
| Patients should see their account information on the app. | | | |
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| **FR2. Drug information** | | | |
| Goal: The system will allow the patients and the doctors to look up information on a certain medication. | | | |
| Stakeholders: All | | | |
| Whenever a doctor or a patient wants to look up information on a drug, they are able to do so within the app. This will include any basic information regarding the drug e.g. its uses, safe dosage, any side effects, its interactions with other drugs, and FAQs. | | | |
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| **FR3.** Account Registration | | | |
| Goal: The system will allow the patients and doctors to register new accounts on the app. | | | |
| Stakeholders: All | | | |
| In order to create a new account, the patients will choose the patient portal of the app, and have to provide their first and last name, and their email. They will be prompted to make a username and password which they will use to log in to their account.  Doctors will register for an account on the Doctor portal by providing their full name, and NPI. They will also be asked to create a username and password for their account in order to access it.  Doctors and patients will both be asked to select 3 login security questions and provide an answer. These questions will be used to verify their identity throughout the login process. If they ever forget their username or password and want to reset, they will be prompted to enter the answer to their selected questions. | | | |
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| **FR4.** Login | | | |
| Goal: The system will allow the patient and the doctor to log in to their account using their username and password. | | | |
| Stakeholders: All | | | |
| Patients and doctors will be prompted to create a username and password when setting up their accounts, which they will use to access their accounts in the future. When logged in from a new device, they will have to confirm their identity by using two-factor authentication. | | | |
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| **FR5.** Notifications | | | |
| Goal: The application will send notifications to the patient's phone. | | | |
| Stakeholders: All | | | |
| The applications should send notifications to the patient’s phone when they have an approved/denied prescription or when they receive a message from their physician. | | | |
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| **FR6.** Messaging | | | |
| Goal: The system will allow patients and doctors to communicate through texts. | | | |
| Stakeholders: All | | | |
| In emergency situations, the patient and doctors will be able to contact each other via the messaging option. Additionally, the patient can inquire with the doctor of any medical concerns they may have without having to visit in person. | | | |
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| **FR7. Refill Requests** | | | |
| Goal: The system will allow patients to request prescription refills | | | |
| Stakeholders: Patients | | | |
| When a patient logs into an app, they are able to look at all of the prescriptions they are on and can press a refill button that sends a request to the doctor. | | | |
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| **FR8. Appointment requests** | | | |
| Goal: The system will allow the doctor to send an appointment request to a patient | | | |
| Stakeholders: Doctors | | | |
| When a doctor decides that a patient needs to come in for a check-up/appointment, they are able to send a request to the patient asking them to make an appointment. | | | |
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| **FR9. Add Prescriptions** | | | |
| Goal: The doctor can add a prescription to a patient’s profile after they’ve sent that prescription to the patient's pharmacy | | | |
| Stakeholders: Doctors | | | |
| When a doctor writes a new prescription, they can add that prescription to the patient’s profile, filling in all the prescription information for the patient to see, and make requests for. | | | |
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| **FR10. Refill Status** | | | |
| Goal: The system will show the user all of their medications and the prescription requests status. | | | |
| Stakeholders: Patient | | | |
| When a Patient sends in a request for a refill the app should show whether or not the refill request is pending, accepted, or denied by the doctor. | | | |
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| **FR11. Doctor Search** | | | |
| Goal: The system will allow the patient to find their prescribers. | | | |
| Stakeholders: Patient | | | |
| When a patient logs in to their profile, they can search for their doctor by name, office number, and/or address. By selecting their doctor they can view the doctor's profile and send a notification to the doctor's interface so the doctor can also save the patient onto their patient list. | | | |
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| **FR12. Patient History** | | | |
| Goal: The system will allow the patient to see their list of medications that they’ve had prescribed to them by their doctor and will allow the doctor to see the medications that they’ve prescribed to patients | | | |
| Stakeholders: Patient | | | |
| When a patient opens their app they will see the list of medications that they are taking and can see the information on each medication as needed. Doctors can open up the patient history from the patient profile and use the information there to make decisions on what prescriptions need to be written. | | | |
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| **FR13. Patient Search** | | | |
| Goal: The system will allow doctors to find their patient’s profiles to view and add prescriptions as well. | | | |
| Stakeholders: doctors | | | |
| A doctor can look up a patient by their name, birthday, and/or phone number so that they can view that patient’s profile and make decisions on what prescriptions they may need to write. | | | |
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| **FR14. Patient Save** | | | |
| Goal: The system will allow the doctor to save the patient's information in their account for future communication. | | | |
| Stakeholders: Doctors | | | |
| When a doctor sees a new patient and would like to be in contact with the patient for future medical concerns, they can save the patient on their account. | | | |
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| **FR15. Refill Response** | | | |
| Goal: The system will notify the doctor of any refill requests from patients and allow them to either accept or deny them. | | | |
| Stakeholders: Doctors | | | |
| When a patient requests a refill, the doctor will receive a notification and will have the choice to decline or accept the request. After the doctor selects an option, the patient will be alerted of the doctor's decision on their Refill Status. | | | |
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| **FR16. Doctor Save** | | | |
| Goal: The system will allow the user to save information on their doctors for further contact. | | | |
| Stakeholders: Patients | | | |
| When a Patient finds their doctor on RxGo, they can save that doctor profile onto their doctors’ list. That way the patient can easily contact that doctor again for further medical help. | | | |
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