

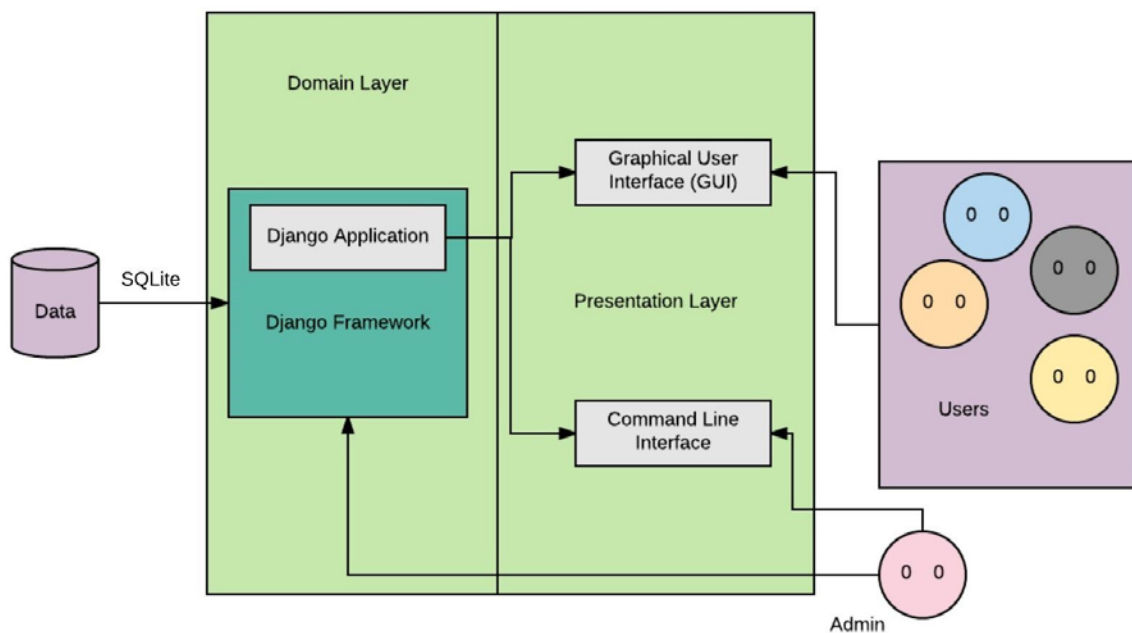
Product Design

SWEN261-TEAM-D

<i>Revision Number</i>	<i>Revision Date</i>	<i>Summary of Changes</i>	<i>Author(s)</i>
<i>0.1</i>	<i>02/15/2017</i>	<i>Initial revision</i>	Michael Hopkins(MH), Bryan Camp (BC), Tyler Collins (TC), Yancarlos Diaz (YD), Moisés Lora Pérez (MP) (MILA)
<i>1.0</i>	<i>02/24/2017</i>	<i>Correctional Updates, adjust Sequence diagrams and document spacing.</i>	MILA
<i>1.1</i>	<i>03/27/2017</i>	<i>Added R2 Sequence Diagrams, Components, and Rationale</i>	MILA
<i>1.9</i>	<i>05/04/2017</i>	<i>Updated Class Diagram</i>	MILA
<i>2.0</i>	<i>05/06/2017</i>	<i>Final R2 Revision</i>	MILA

Architectural Model

This diagram represents the major subsystems of the product. Initially focus on the domain layer and its components before decomposing the user interface component. Note that a common interface allows both the GUI and a Command Line Interface to access the domain model in the same manner without regard to the type of presentation technique.



Components and Functions

Release 1

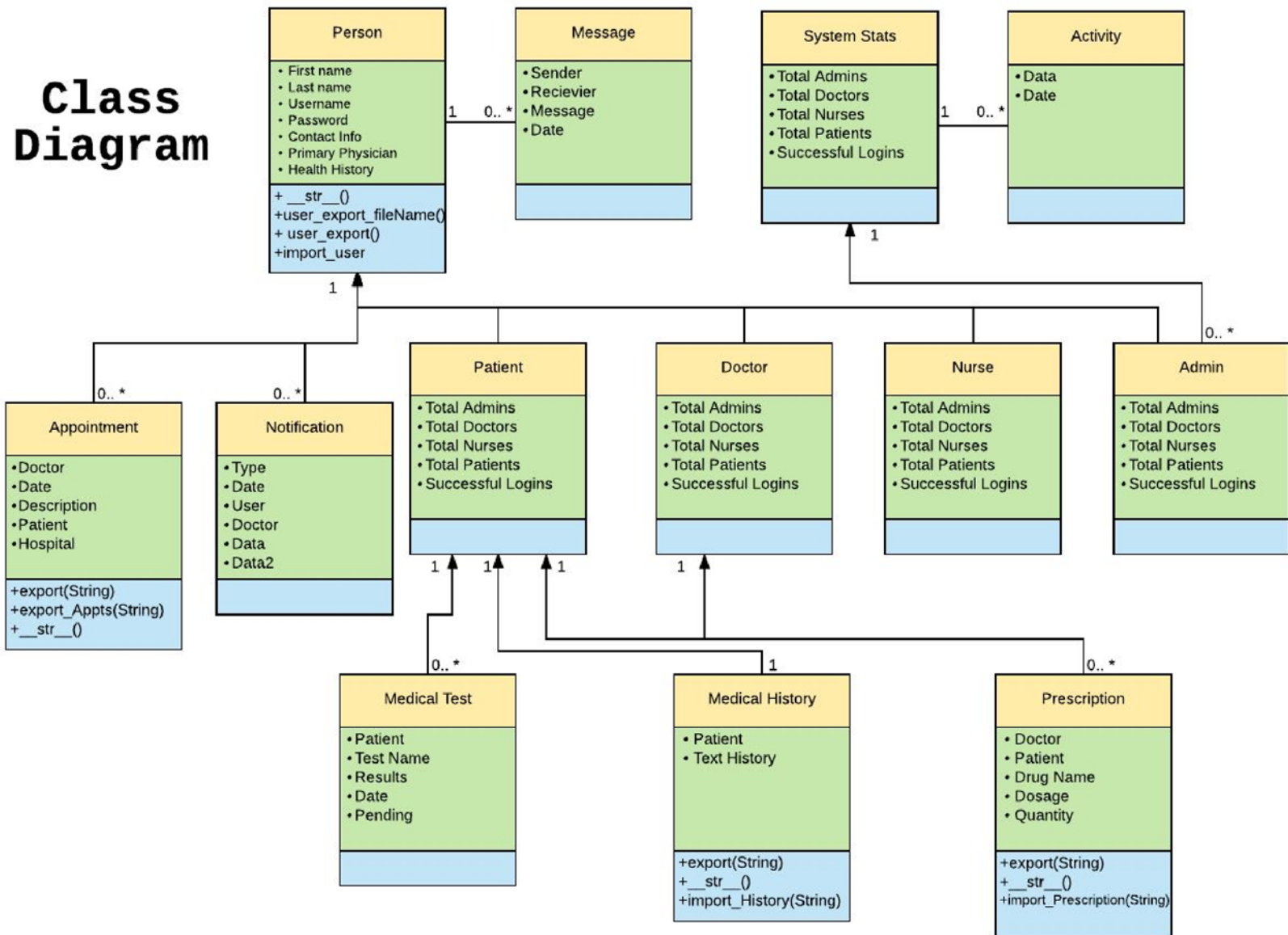
Profile	<p>The Profile component will be the core of the R1 release. Patients will be able to sign up as users and create their own profile. The system will securely keep track of its patient's profile information by asking the patient to create unique login credentials. Patients will also be able to later update their profile information as desired.</p> <p>The profile component is linked to the other two components of this system: Appointments and a Log System. Every profile will have Appointments attached to it as well as an Activity Log.</p>
Appointments	<p>Appointments are the second most essential component of R1. Both patients and doctors will have appointments attached to their profiles, but we will only focus on the patients for R1.</p> <p>Patients can create, update, and cancel appointments as desired. Patients can also access a Calendar that facilitates the view of upcoming appointments</p>
Activity Log System	<p>This component allows an admin to look up recent activity within any time frame. It will keep track of all the patient's log in as well as any profile changes.</p>

Release 2

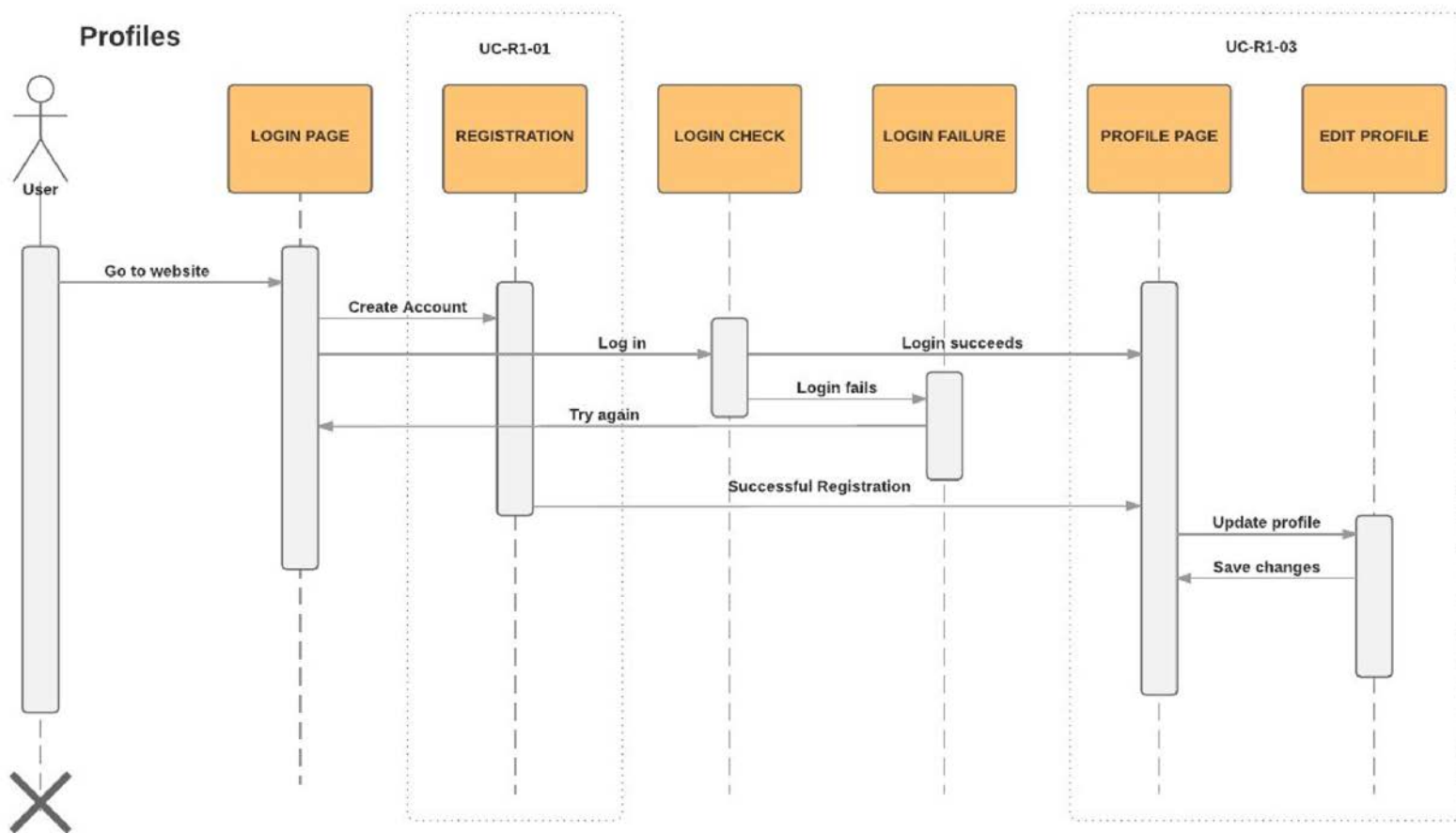
Patient Medical Information	<p>To add to the patient profile from release 1, we are adding medical information to a patient's information. This medical information can be updated by Doctors and Nurses, but not the patients themselves.</p>
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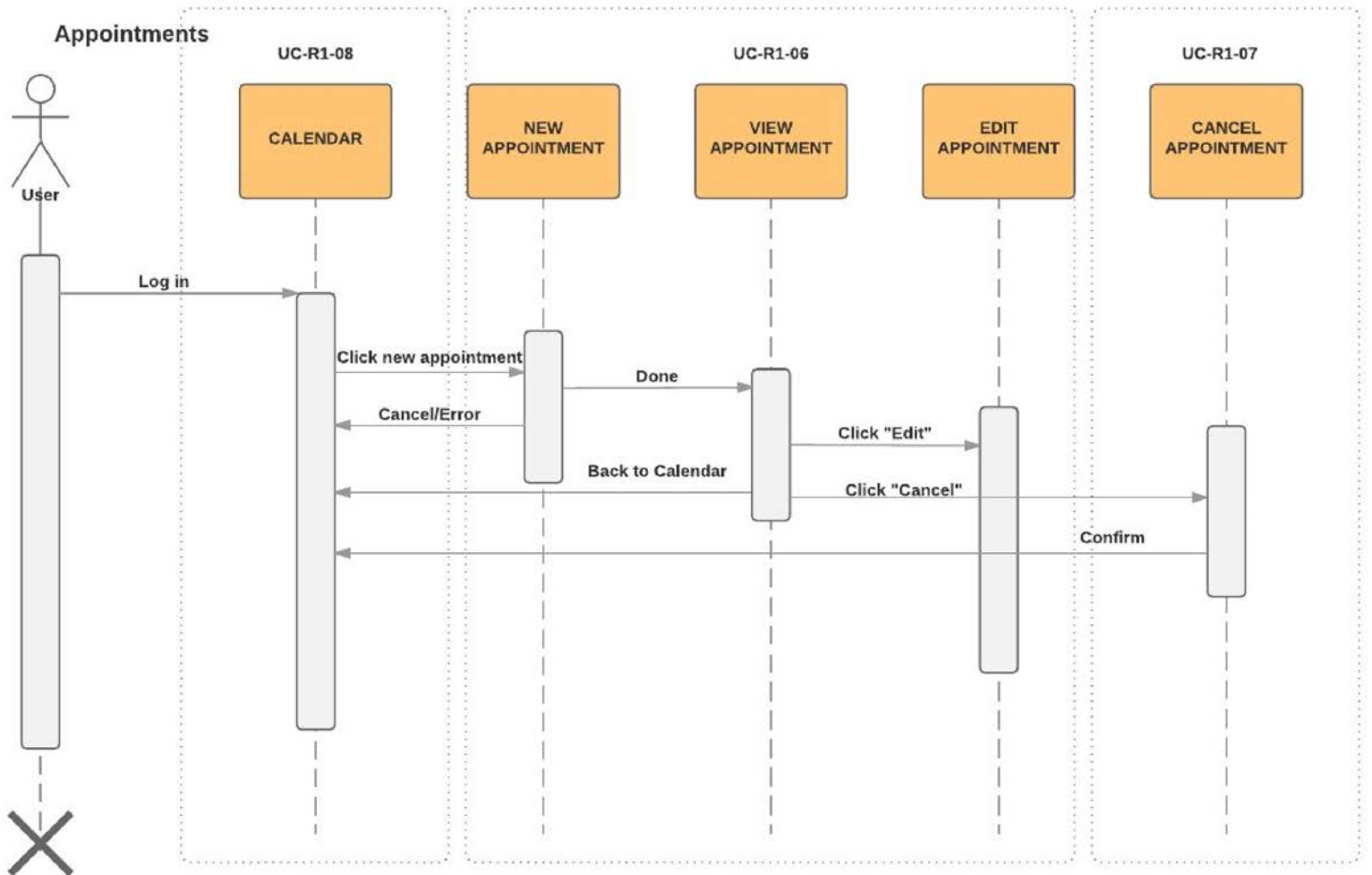
Export Information	Patients will now be able to export some of their information for their own use. This is only possible once the system confirms that the user understands how this could affect the privacy of their information
Prescriptions	Prescriptions are another big component in Release 2. Doctors will be able to make prescriptions for patients. Nurses and Patients will only be able to view them, not create or edit them
Test Releases	Doctors will now be able to upload documents related to the patients. The patients will only be able to see their test results once their doctor officially releases them
Admission and Discharge to/from Hospital	We are adding the ability to record a patient's extended stay in a hospital. Nurses and Doctors can officially admit patients into the hospital, but only Doctors can discharge them
Messaging	Release 2 will also include a messaging system. This will allow patients, nurses, doctors, and admins to communicate inside HelathNet.

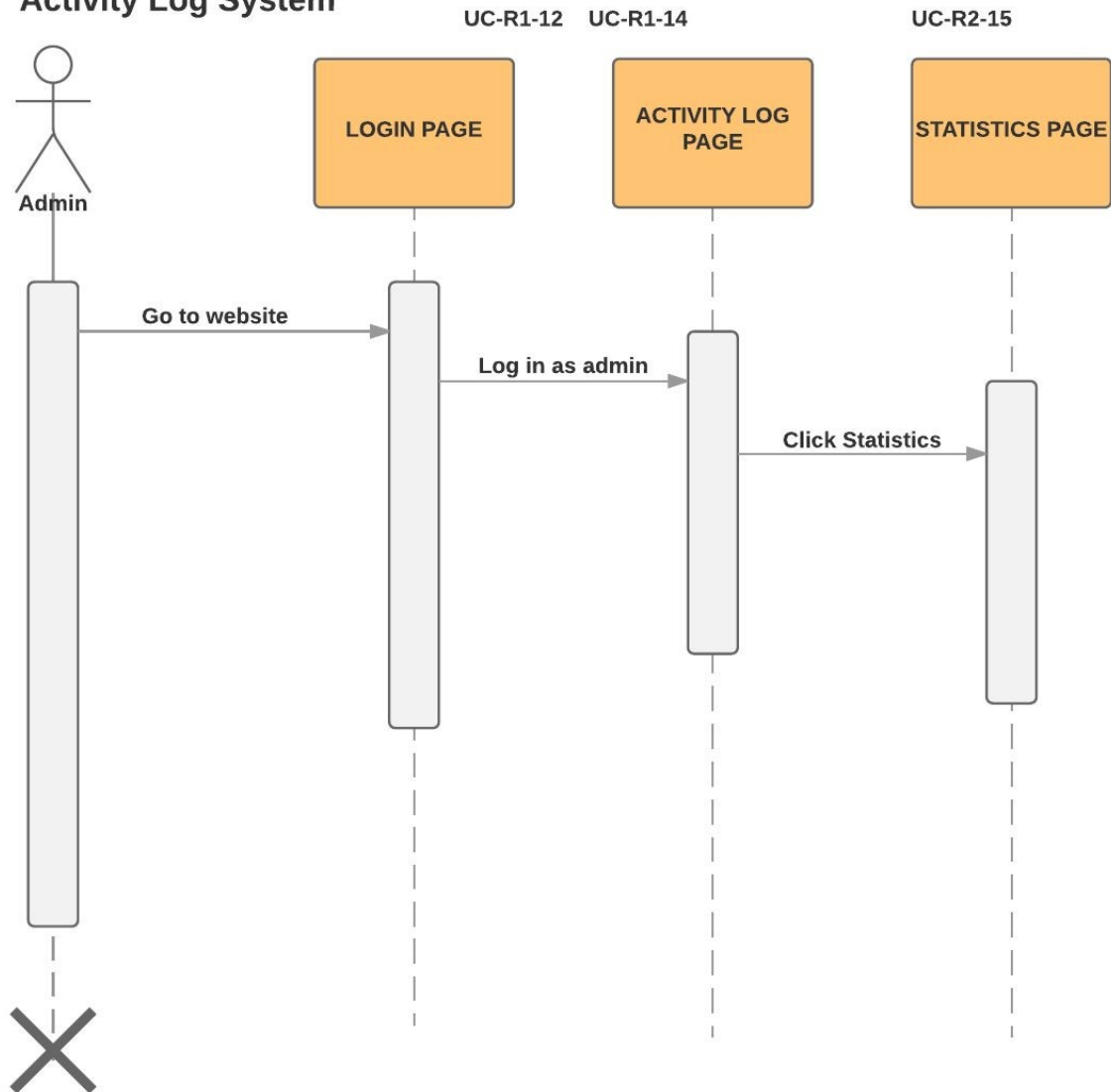
Class Diagram



Sequence Diagram(s)

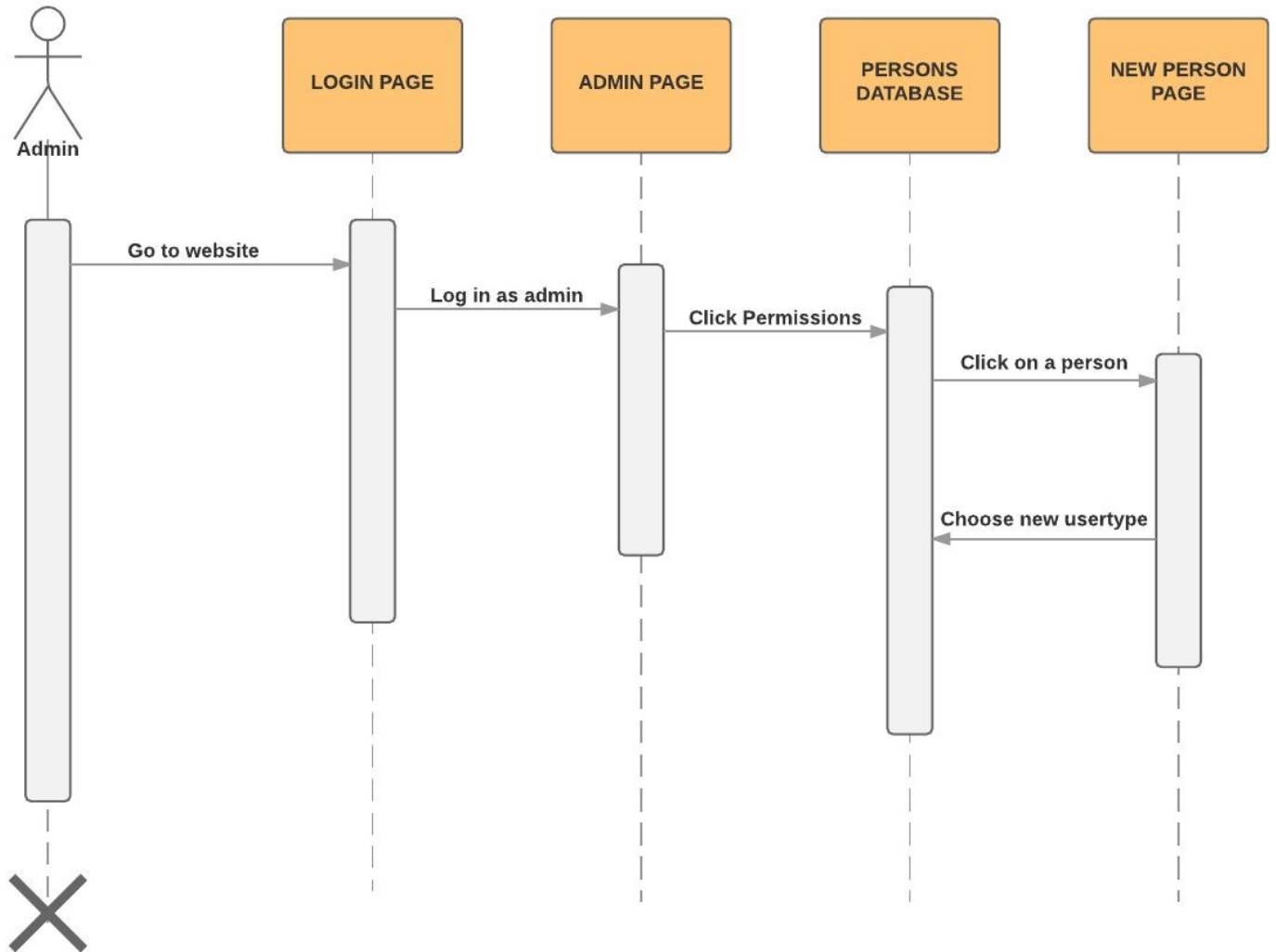




Activity Log System

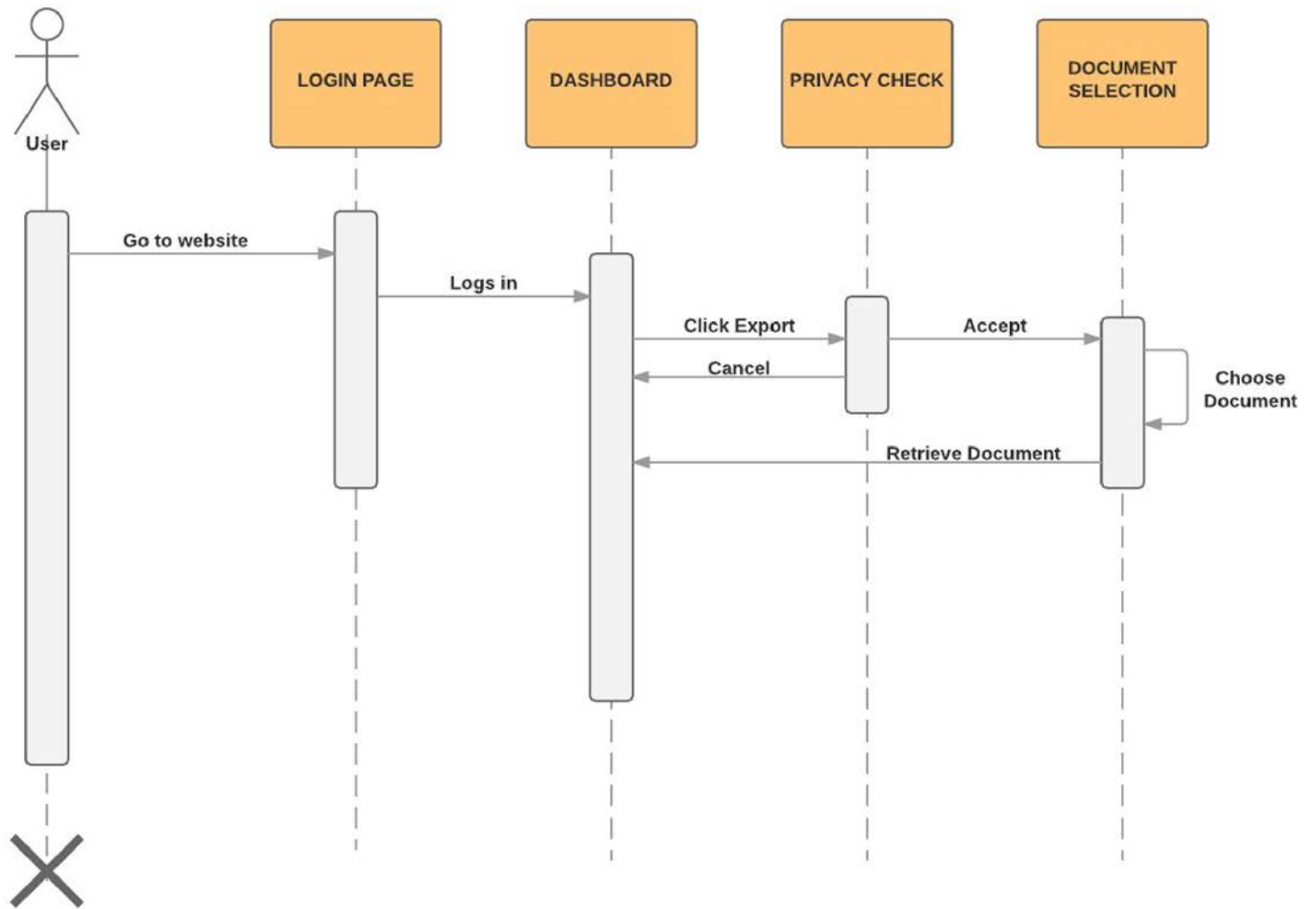
Administrator Registration

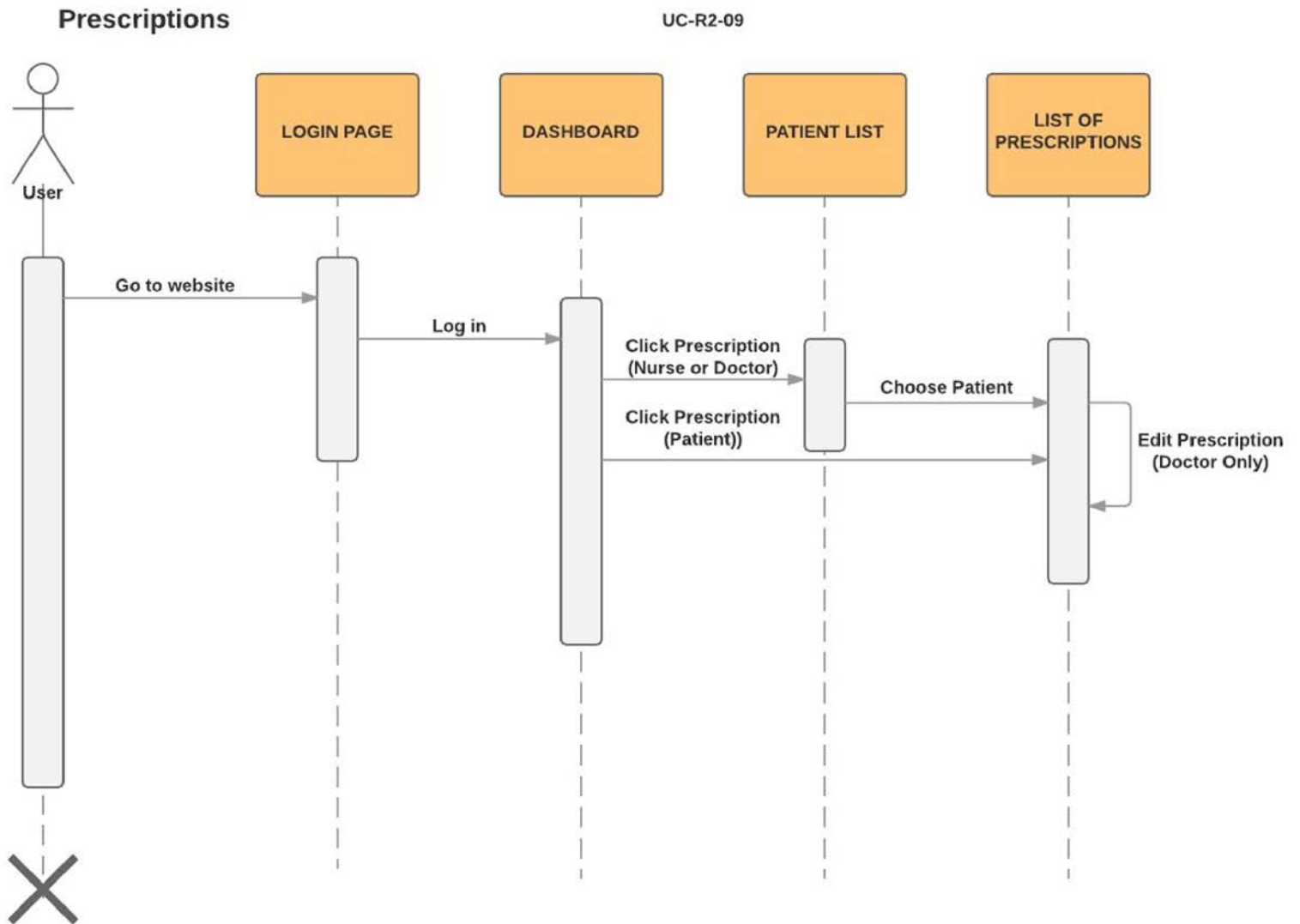
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Export Information

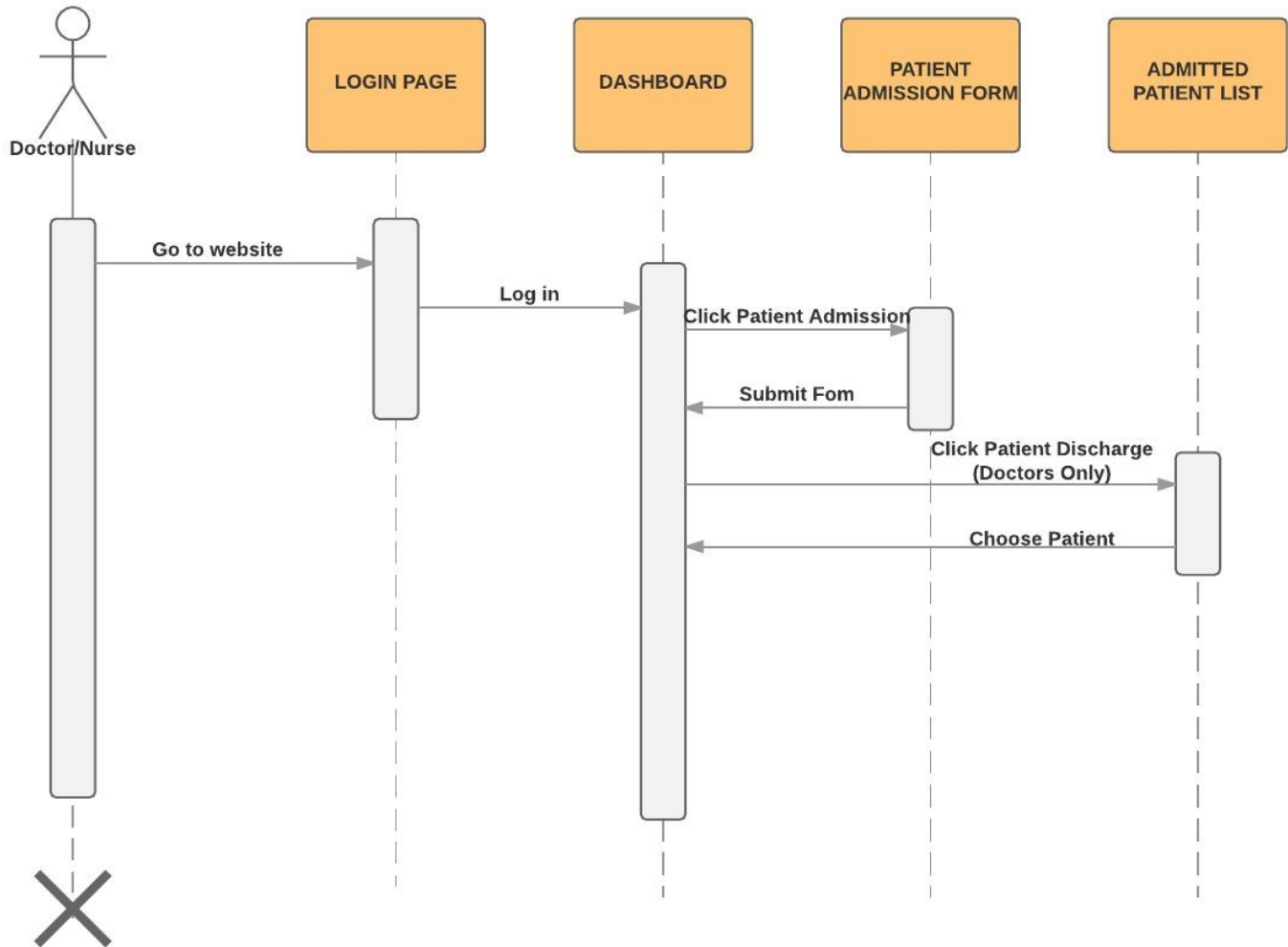
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**Admission and Discharge
to/from Hospital**

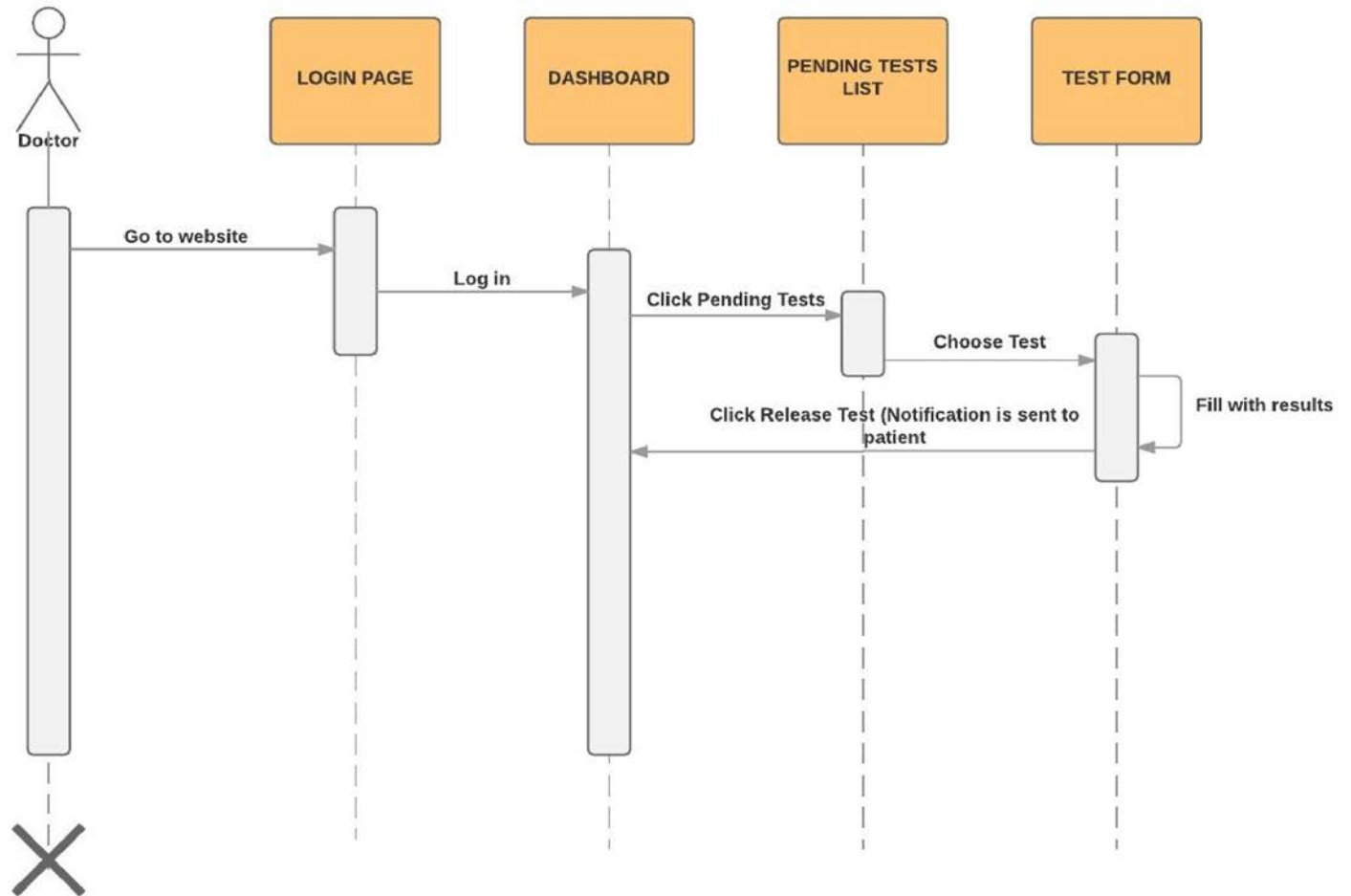
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Upload and Release Tests

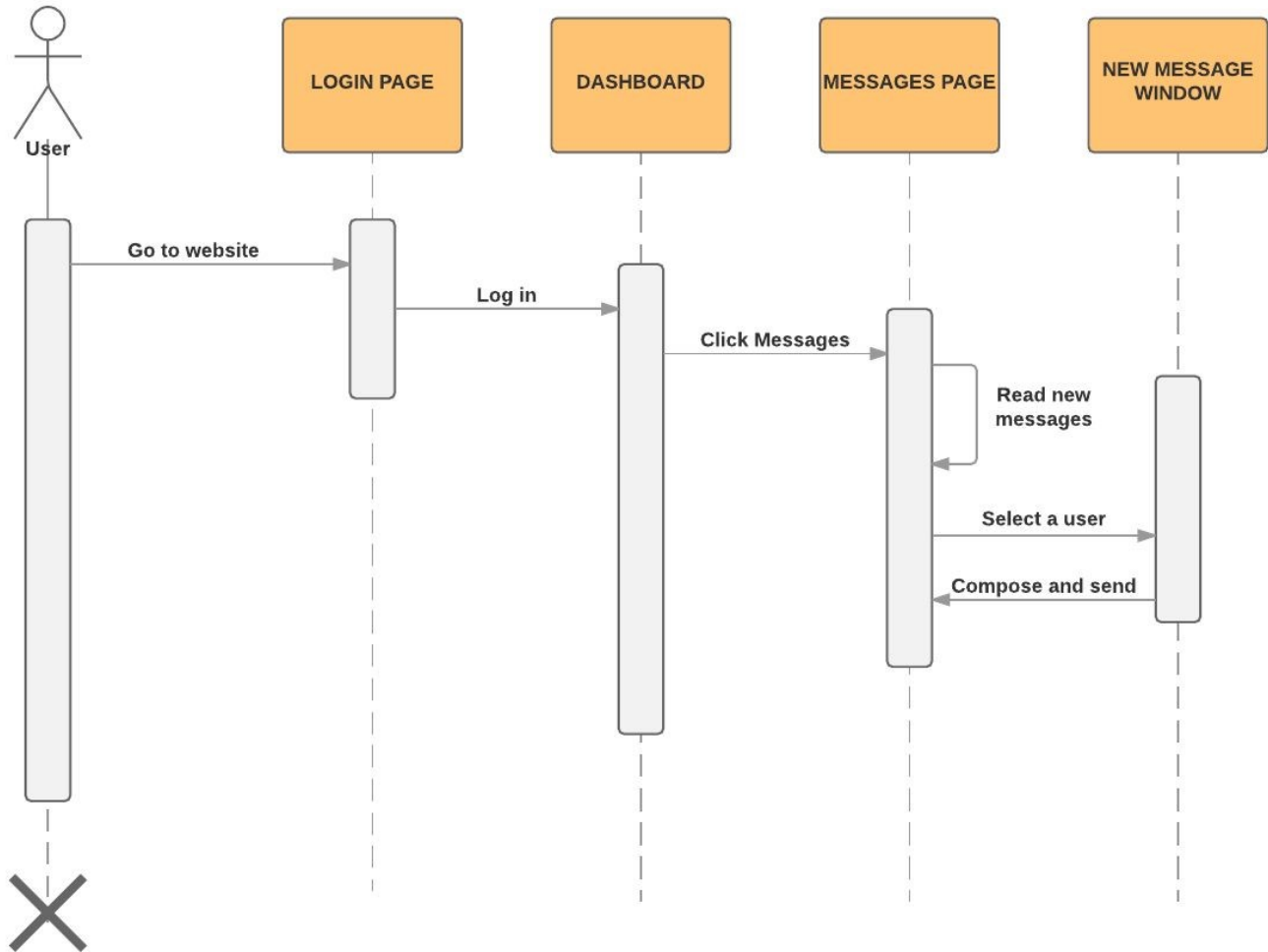
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UC-R2-11



Private Messaging

UC-R2-18



Design Rationale

R1's minimal requirements include the following:

1. Patient Registration
2. Update Patient Profile Information
3. Create or Update Patient Appointment
4. Cancel Patient Appointment
5. An Appointment Calendar
6. Logging System Activity
7. View of Activity Log

. Our design tries to capture these 7 requirements in three categories: Patient profiles, appointments, and Activity Log System. This allows us to look at the different requirements in a more concise way. It also makes it easier to understand the connections between requirements. Our Class Diagram includes the essential things we think we will need to satisfy all of the requirements. However, we do understand that we will be adding more classes as we implement this project.

R2's requirements expand on R1's requirements and add more functionality.

R2's minimal requirements include

1. Patient Medical Information
2. Export Information
3. Prescriptions
4. Test Releases
5. Admission and Discharge from a Hospital
6. Messaging
7. And more...

Our design for R2 does not try to compile requirements as much as it did for R1. This time, we are trying to target the requirements individually, which is why we have more Sequence Diagrams. We believe that this design will allow us to focus on individual functionality more carefully. This will hopefully allow for more attention to detail and overall better results