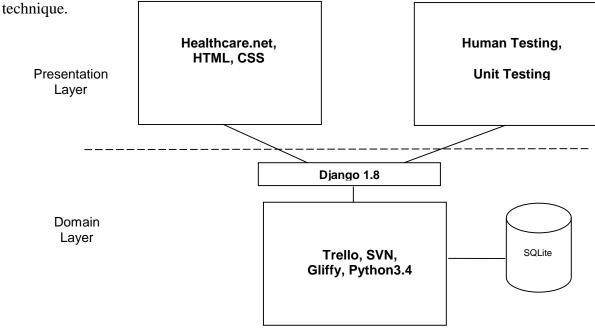
# **Product Design**

#### Team StackOverflowGooglers

Revision Number	Revision Date	Summary of Changes	Author(s)
1.0	09/21/2015	Filling out the whole thing	Doug Gawne, Paul Hulbert, Lucas Smith
2.0	10/22/15	Updated Design Rationale and Renamed Use Cases	Lucas Smith
2.1	10/26/15	Updated Components/Functions, Use Cases, and Sequence Diagrams for R2	Lucas Smith

#### **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

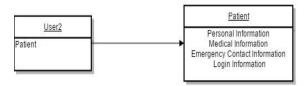


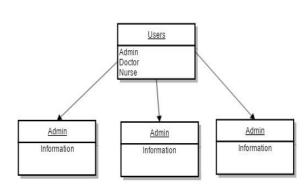
# **Components and Functions**

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Home Page	<ul><li>Patient login link</li><li>Doctor login link</li></ul>	
	Nurse login link	
	Admin login link	
	Admin News Feed	
Patient Login	Patient login form	
<u> </u>	Patient register link	
Admin Login	Superuser functionality	
Doctor Login	Doctor login form	
Nurse Login	Nurse login form	
Doctor/patient create appointment	Cancel link	
,	details form	
Doctor/patient view calendar	logout link	
	create appointment link	
	edit patient details link	
Nurse view calendar	logout link	
	<ul> <li>shows all appointments over a week</li> </ul>	
	edit appointment link	
Patient edit patient details	cancel link	
·	details form	
Doctor/patient/nurse edit appointment	cancel button for doctor/patient	
	detail form	
Admin view logs	Superuser can view models with logs	
	contained	
Admin View Stats	Admin viewing the statistics of the system	
Doctor/Nurse Edit Patient Medical	View Patient Medical Info	
info	View Prescription	
Doctor functions for a patient	Add/Remove Prescription	
	Evaluate/Release Test Results	
	Upload files into patient Medical Info	
Patient View Test Results	View results of a test on medical info page	
	View discharge or extension of stay	
	Transfer of hospitals	
Messaging	Doctor/Nurse/Admin/Patient private messaging	
	Admin adding message of the day	

## Class Diagram(s)

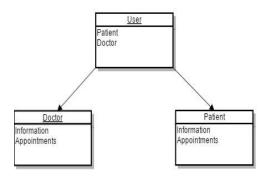
Use Case 1

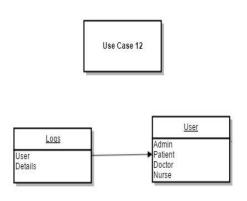


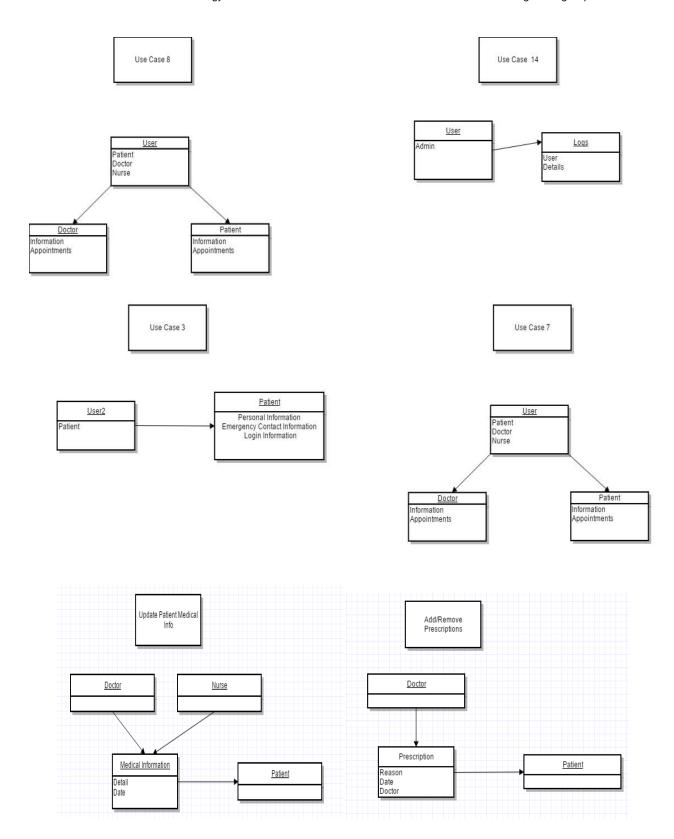


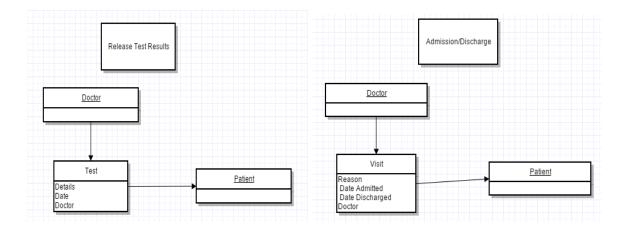
Use Case 2

Use Case 6



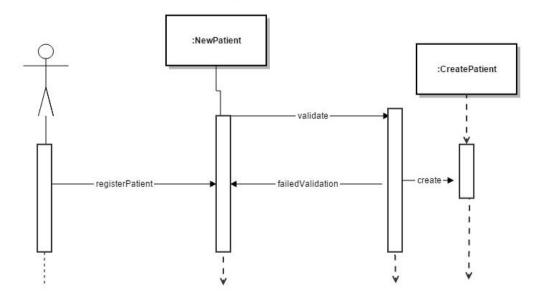




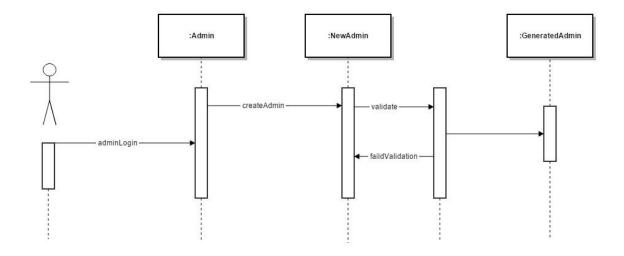


# Sequence Diagram(s)

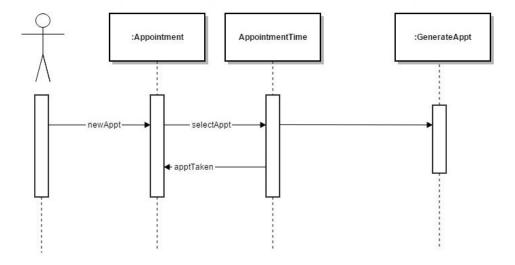
## Registration-Use Case 1



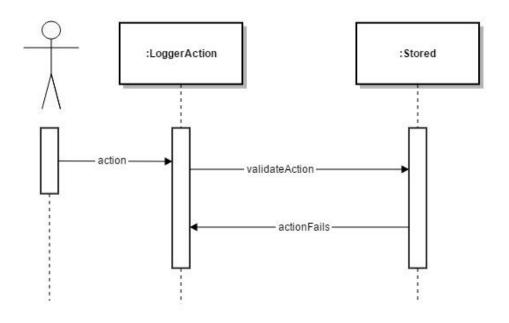
# Admin Registration- Use Case 2



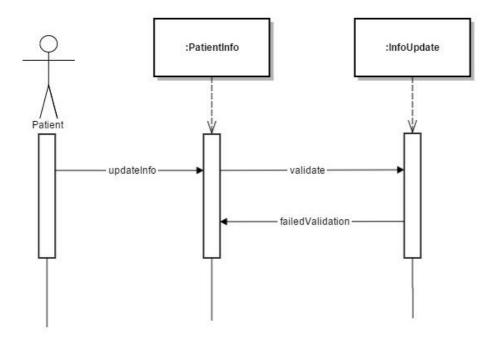
## Create Appointment- Use Case 6



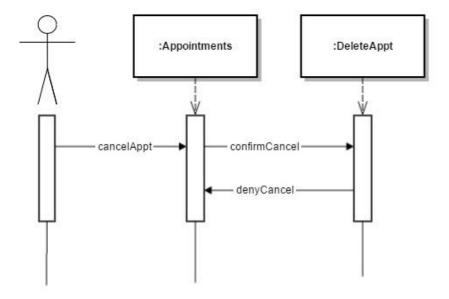
## Logging Activity- Use Case 12



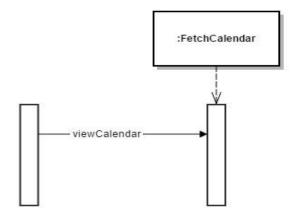
## Update Patient Profile Information- Use Case 6



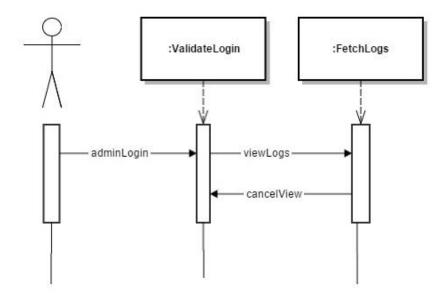
## Cancel Patient Appointment- Use Case 14



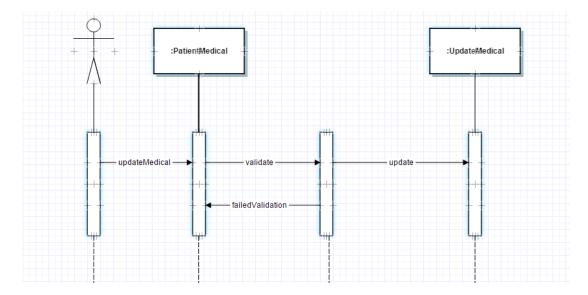
# Appointment Calendar- Use Case 3



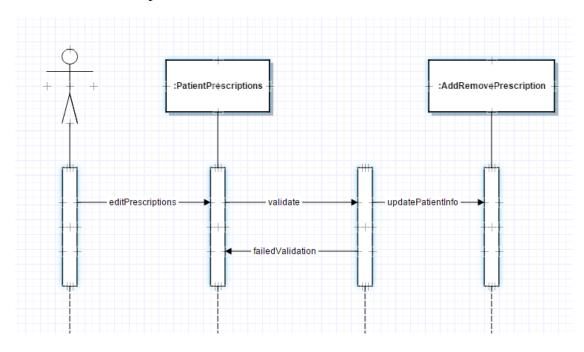
## Viewing Activity Log- Use Case 7



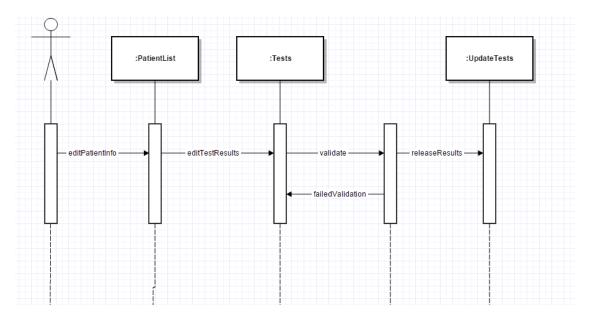
# Update Patient Medical Info



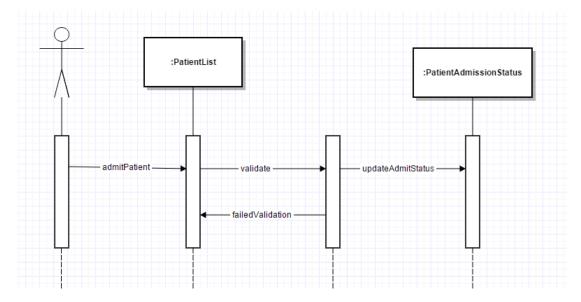
## Add/Remove Prescription



#### Release Test Results



#### Admission/Discharge



#### **Design Rationale**

We chose to use only one app for this project. We could not find any benefit aside from namespace collisions that would result from making multiple apps.

This meant we had to figure out a different way to prevent namespace collisions. What we chose to do was create an individual .py file for each view, and import them into the main views.py file. This also let us be able to work on views simultaneously without risk of merge conflicts.

We chose to use the Django superuser as the admin, because it gives us everything we need, custom built. Perhaps we will edit the templates later to make it work better, but for now it works well.

We also broke the work into front end, back end (views), and models. This lets us break into smaller groups to do the different parts.

Django has a built-in login view, but we chose to make our own because it allows us to better control it and prevent someone from re-logging in.

We chose to create our own calendar because it gave us more control over how it appeared to the user.

We also replaced the Django superuser with custom built views to make it more useable.