

Software Requirements Specification (SRS) Document

Project Name	Automatic Verification of Web Applications using Selenium
Team Name	Team 38
Members	1. Sri Harsha Vuyyuri 2. Karthika Ramineni 3. Rishika Sharma

Brief problem statement

This project is related to automation of the Web Application Verification. Specifically for OnwardHealth, a Post-Surgery digital companion for a patient, we would be working towards automating verification of most of the web interfaces supported by the platform. For each role, we verify the existing functionality and whenever a new feature is added, we will simultaneously verify the working of existing functionality for that role.

System requirements

- Technology: Selenium (using python)
- Driver: Selenium Web Driver
- Collaboration Tools: pgAdmin4 (for maintaining database)
- Gmail API
- Development Environment: Sublime text-editor, atom text-editor, terminal

Users profile

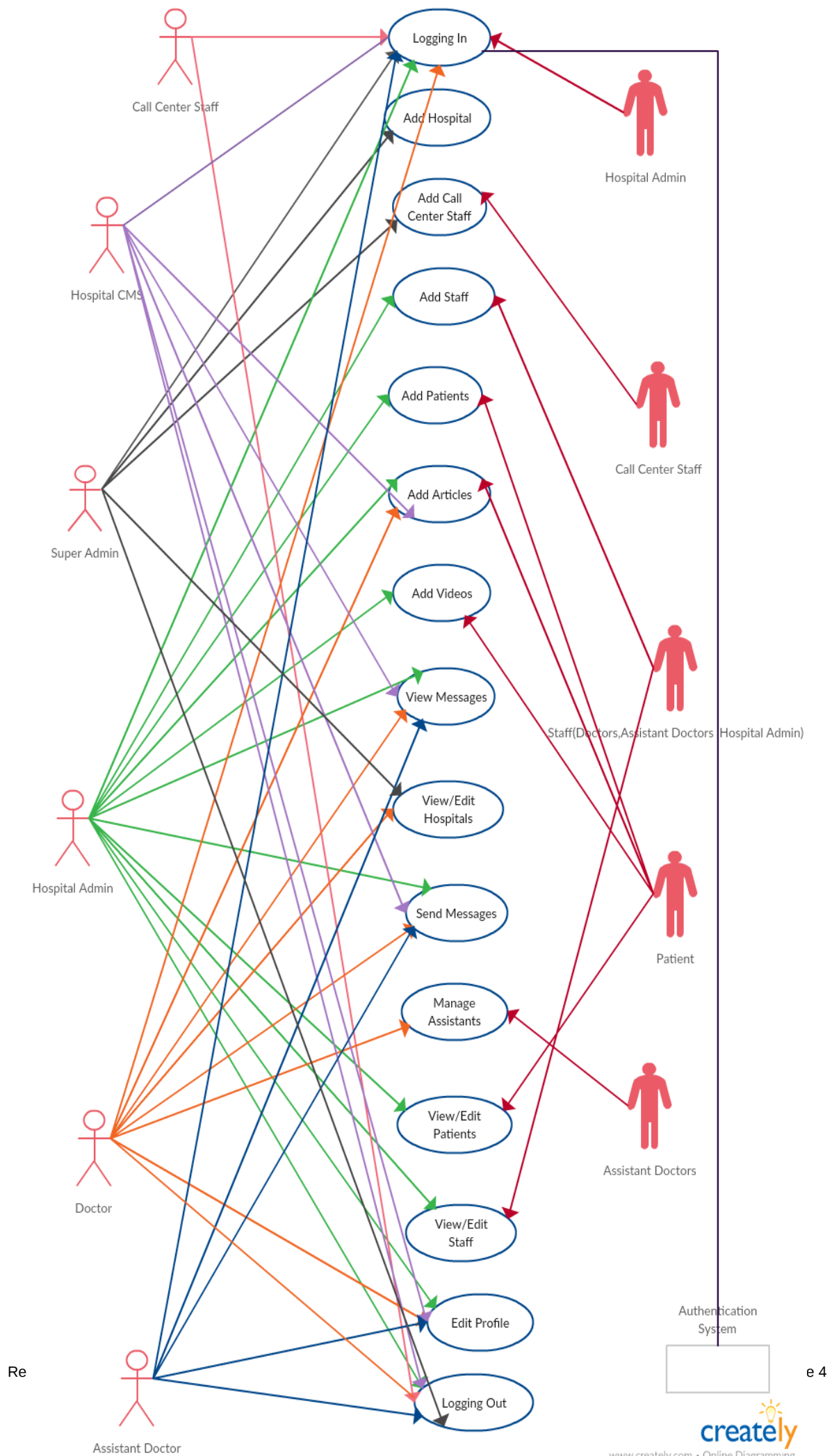
- **Super Admin**
 - Administrator Mode
 - Familiarity with computers - High
- **Hospital Admin**
 - Administrator Mode
 - Familiarity with computers - High
- **Call Center Staff**
 - User Mode
 - Familiarity with computers - High
- **Hospital CMS**
 - User Mode
 - Familiarity with computers – Medium/Low
- **Doctors**
 - User Mode
 - Familiarity with computers – Medium/Low
- **Assistant Doctors**
 - User Mode
 - Familiarity with computers – medium/Low

Feature requirements (described using use cases)

No.	User Case Name	Description	Release
1.	Logging in	Various types of users can login to use the services provided	R1
2.	Add Hospital	Super Admin can add new hospitals	R1
3.	Add Call Center Staff	Super Admin can add Call Center Staff	R1
4.	Add Staff	The Hospital Admin can add Staff (Doctors,Assistant Doctors,)	R1
5.	Add Patients	The Admin can add a patient in the corresponding hospital	R2

6.	Add Articles	Some types of users can send articles to all/tagged patients	R1
7.	Add Videos	Some types of users can send videos to all/tagged patients	R1
8.	View Messages	The users can see the messages from other users	R2
9.	Manage Assistants	A doctor can manage the assistants working under him	R2
10.	Send Messages	Users can send messages to other users	R2
11.	View Patients	The Hospital Admin can view/deactivate/edit the details of patients	R2
12.	View Staff	The Hospital Admin can view/deactivate/edit the details of Staff	R2
13.	Edit Profile	The users can edit their profile	R2
14.	View/Edit Hospitals	The Hospital Admin can view/edit the details of Hospitals	R2
15.	Logging out	Sign out from the website	R1

Use case diagram



Re

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Use case description

Use Case Number:	UC-1
Use Case Name:	Logging in
Overview:	The users should login to be able to use the application
Actors:	Super Admin, Hospital Admin, Doctors, Assistant Doctors, Call Center Staff, Hospital CMS, Authentication System
Pre condition:	Login page is displayed
Flow:	Main (success) Flow: 1. User enters the username and password 2. User clicks login
	Alternate Flows: 1. If the user clicks forgot password, he/she would be asked to give the email id and a password reset link would be sent to him/her 2. If wrong credentials are entered, the user is asked to re-enter the credentials
Post Condition:	The corresponding home page is displayed for each user

Use Case Number:	UC-2
Use Case Name:	Add Hospital
Overview:	A new hospital can be added by the Super Admin
Actors:	Super Admin, Hospital Admin
Pre condition:	New hospital not in the database
Flow:	Main (success) Flow: 1. The Super Admin chooses 'Add Hospital' 2. A form would be displayed 3. The Admin fills in the details of the hospital and also assigns a hospital admin 4. The Admin clicks on Add
	Alternate Flows: 3. If the Admin leaves the page without clicking Add, the details are not stored 4. The compulsory fields would be highlighted if 'Add' is clicked without filling them

	4. If the Admin clicks on cancel, the details won't be stored
Post Condition:	New hospital gets added to the database

Use Case Number:	UC-3
Use Case Name:	Add Call Center Staff
Overview:	The Super admin can appoint Call Center Staff. The Call Center Staff have all the details of the patient.
Actors:	Super Admin , Call Center Staff
Pre condition:	New Call Center Staff not in the database
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The Super Admin chooses 'Add Staff' 2. A form would be displayed 3. The Admin fills in the details of the Call Center Staff 4. The Admin clicks on Add
	<p>Alternate Flows:</p> <ol style="list-style-type: none"> 3. If the Admin leaves the page without clicking Add, the details are not stored 4. The compulsory fields would be highlighted if 'Add' is clicked without filling them 4. If the Admin clicks on cancel, the details won't be stored
Post Condition:	New Call Center Staff gets added to the database

Use Case Number:	UC-4
Use Case Name:	Add Staff
Overview:	The Hospital Admin can add staff working in the corresponding hospital. The staff include Doctors, Assistant Doctors, CMS
Actors:	Hospital Admin, Staff
Pre condition:	New Staff not in the database
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The Hospital Admin chooses 'Add Staff' 2. A form would be displayed 3. The Hospital Admin fills in the details of the Staff. He can choose the type of staff – Doctor, Assistant Doctor, CMS

	4.The Hospital Admin clicks on Add
	<p>Alternate Flows:</p> <p>3. If the Hospital Admin leaves the page without clicking Add, the details are not stored</p> <p>4. The compulsory fields would be highlighted if 'Add' is clicked without filling them</p> <p>4. If the Hospital Admin clicks on cancel, the details won't be stored</p>
Post Condition:	New Staff gets added to the database

Use Case Number:	UC-5
Use Case Name:	Add Patient
Overview:	The Hospital Admin can add new patients, Enter their discharge details
Actors:	Hospital Admin, Patient
Pre condition:	New Patient not in the database
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The Hospital Admin chooses 'Add Patient' 2. A form would be displayed 3. The Hospital Admin fills in the details of the Patient. 4.The Hospital Admin clicks on Add 5. He/She can choose to add the discharge details by clicking on Add Discharge 6. A form would be displayed 7. The Hospital Admin fills the form 8. Clicks on Add Discharge 9. He/She will be redirected to other page 10. He/She can add activity for the patient on the same page by clicking on Add Activity 11. A form would be displayed 12. The Hospital Admin fills the form 13. Clicks on Assign 14. Clicks on Save Regimen 15. A prompt would be shown and if Yes is clicked the Hospital Admin would be redirected to the list of patients 16. Again he/she selects the above patient from the list, he/she is redirected to a page with all the details of the patients 17. Clicks on QA Finished & Publish

	18. A prompt would be shown and if Yes is clicked a message would be shown that the patient got added successfully
	<p>Alternate Flows:</p> <p>3. If he/she leaves the page without clicking on add the details entered till the won't be stored</p> <p>4. The compulsory fields would be highlighted if 'Add' is clicked without filling them</p> <p>4. If the Hospital Admin clicks on cancel, the details won't be stored</p> <p>5. If he/she doesn't proceed from this step onwards, the patient won't get added to the database</p> <p>7. If he/she leaves the page without clicking on add the details entered till the won't be stored</p> <p>8. The compulsory fields would be highlighted if 'Add' is clicked without filling them</p> <p>8. If the Hospital Admin clicks on cancel, the details won't be stored</p> <p>10. If he/she doesn't proceed from this step onwards, the patient won't get added to the database</p> <p>12. If he/she leaves the page without clicking on add the details entered till the won't be stored</p> <p>13. The compulsory fields would be highlighted if 'Add' is clicked without filling them</p> <p>13. If the Hospital Admin clicks on cancel, the details won't be stored</p> <p>15. If he/she chooses 'not yet', the regimen won't be saved and hence patient is not added to database</p> <p>18. If he/she chooses 'not yet', the discharge won't be saved and hence patient is not added to database</p>
Post Condition:	New Patient gets added to the database

Use Case Number:	UC-6
Use Case Name:	Add Articles
Overview:	The Articles can be added by Hospital Admin or Hospital CMS
Actors:	Hospital Admin, Hospital CMS, Patients
Pre condition:	Article won't be there in the database
Flow:	<p>Main (success) Flow:</p> <p>1. The Hospital Admin /Hospital CMS chooses Article > Add Articles</p> <p>2. A form would be displayed</p> <p>3.He/She chooses a file and fill the other details</p> <p>4. If he/she chooses 'specific patients' from 'Type' he /she can click on</p>

	<p>Choose patients</p> <p>5. He/She can choose the check boxes against particular patients</p> <p>6. Click on Send</p> <p>7. A prompt would be displayed to confirm sending</p> <p>8. Click on Yes</p> <p>9. A message will be displayed that the article has been sent</p>
	<p>Alternate Flows:</p> <p>4. If he/she doesn't choose specific patients, he can send the messages to tagged/all patients and click on Publish to send the articles</p> <p>6. If he/she leaves the page before clicking on Send, the articles won't be sent</p>
Post Condition:	The Article is sent to the specified patients

Use Case Number:	UC-7
Use Case Name:	Add Videos
Overview:	Videos can be sent by Hospital Admin
Actors:	Hospital Admin, Patients
Pre condition:	The video won't be there in the database
Flow:	<p>Main (success) Flow:</p> <p>1. The Hospital Admin selects Video > Add Video</p> <p>2. He/She enters the details of the video</p> <p>3. Clicks on Add Video</p>
	<p>Alternate Flows:</p> <p>2. If he/she leaves the page without clicking on Add Video, the video won't be sent</p> <p>3. If he/she selects cancel, the video won't be sent</p>
Post Condition:	The Video is sent to the patients

Use Case Number:	UC-8
Use Case Name:	View Messages
Overview:	The users can view the messages
Actors:	Hospital Admin, Doctors, Assistant Doctor, Hospital CMS
Pre condition:	The users should be logged-in

Flow:	Main (success) Flow: 1.The user can go to the the notification section and read the notifications
	Alternate Flows: None
Post Condition:	The message should be marked as read

Use Case Number:	UC-9
Use Case Name:	Manage Assistants
Overview:	The doctors can manage the assistants: grant access or revoke access
Actors:	Doctors, Assistant Doctors
Pre condition:	The user should be logged-in
Flow:	Main (success) Flow: 1. On clicking manage assistants button we are redirected to assistant page for that particular doctor 2. Enters the name of the assistant 3. a)Clicks on Grant Access b) Also the doctor can revoke access from an assistant by clicking the revoke-access button besides the name of that assistant 4. In both the cases a prompt will be displayed and the user clicks on Yes
	Alternate Flows: 2. If the user leaves the page without clicking on Grant Access/Revoke access, the changes won't be saved 4. If the user clicks on Cancel the Assistants won't be granted/revoked access
Post Condition:	The assistant should be granted access or revoke out access from that doctor

Use Case Number:	UC-10
Use Case Name:	Send Messages
Overview:	Users can send messages to other users
Actors:	Hospital Admin, Doctors , Assistant Doctor, Hospital CMS
Pre condition:	Users should be logged-in

Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The user selects messages 2. A text box would be displayed where he/she can type the message 3. The user selects the people to whom he/she wants to send the message 4. Clicks on Send
	<p>Alternate Flows:</p> <ol style="list-style-type: none"> 2. If the user leaves the page without clicking on Send the message won't be sentences 3. If he/she doesn't choose the list of users to whom he/she wants to send the message, an alert is shown that the users are not chosen
Post Condition:	The sent messages should be stored in the database

Use Case Number:	UC-11
Use Case Name:	View/Edit Patients
Overview:	The Hospital Admin can view and edit the details of Patients
Actors:	Hospital Admin, Patients
Pre condition:	The User should be logged-in as the Hospital Admin
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The user clicks Patients > Edit 2. A form would be displayed 3. The user can make necessary changes : edit details of Patients 4. On clicking Update the changes would be stored and he/she will be directed to the home page. Also a message would be shown that the details were updated successfully
	<p>Alternate flows:</p> <ol style="list-style-type: none"> 3. If the user leaves the page without clicking on Update, the changes won't be saved 3. The user can deactivate the staff only if it is not deactivated already 3. The user can reactivate the staff only if it is deactivated 4. On clicking the cancel button the staff profile will not be edited in database and on any of the pages
Post Condition:	The user should remain logged in the hospital-admin page

Use Case Number:	UC-12
Use Case Name:	View/Edit Staff
Overview:	The Hospital Admin can view/edit the details of Staff
Actors:	Hospital Admin, Hospital Staff
Pre condition:	The User should be logged-in as the Hospital Admin
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. The user clicks Staff > Edit 2. A form would be displayed 3. The user can make necessary changes : edit details of Staff 4. On clicking Update the changes would be stored and he/she will be directed to the home page. Also a message would be shown that the details were updated successfully
	<p>Alternate Flows:</p> <ol style="list-style-type: none"> 3. If the user leaves the page without clicking on Update, the changes won't be saved 3. The user can deactivate the staff only if it is not deactivated already 3. The user can reactivate the staff only if it is deactivated 4. On clicking the cancel button the staff profile will not be edited in database and on any of the pages
Post Condition	The changes would be stored in the database and reflected on all the pages of the application

Use Case Number:	UC-13
Use Case Name:	Edit Profile
Overview:	The different users can edit their profile if needed
Actors:	Hospital Admin, Doctors, Assistant Doctor, Hospital CMS
Pre condition:	The users should be logged-in
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. If the user clicks on the my-profile button the page redirects to they profile page 2. If the user clicks on the edit button the page redirects to the edit-profile page where a form is displayed with all the details filled in 3. The user can edit the details if needed 4. On clicking the update button the page should redirect to the main page

	and a message is displayed that the changes are made successfully
	<p>Alternate Flows:</p> <ol style="list-style-type: none"> 2. If the user doesn't continue from this step onwards, he/she won't be able to edit his/her profile 3. If the user leaves the page without clicking on Update all the changes made will be lost 4. If user clicks on cancel button the changes won't be saved
Post Condition	The details of the user should be edited and same should be displayed on different pages, the details should be stored in the database

Use Case Number:	UC-14
Use Case Name:	View/Edit hospitals
Overview:	The Super Admin can view the list of hospitals added by him, edit the details of hospitals as requested by that hospital
Actors:	Super Admin
Pre condition:	The user should be logged-in as the Super-Admin
Flow:	<p>Main (success) Flow:</p> <ol style="list-style-type: none"> 1. Can view the list of hospitals on the main page 2. On clicking the edit button against a particular hospital, a form will be displayed and all the details of the hospital are already filled in 3. The user makes necessary changes in the form 4. On clicking the Update button the page should redirect them to the home page <p>Alternate Flows:</p> <ol style="list-style-type: none"> 3. If the user leaves the page without clicking on Update, the changes made won't be saved 4. On clicking the cancel button the changes made won't be saved
Post Condition:	The details must be stored in the database

Use Case Number:	UC-15
Use Case Name:	Logging out
Overview:	Logging out from the Application
Actors:	Super Admin, Hospital Admin, Doctors, Call Center Staff, Assistant Doctor, Hospital CMS

Pre condition:	User should be logged-in
Flow:	<p>Main (success) Flow:</p> <p>On clicking the Sign Out button the user should be redirected towards the login page</p>
	Alternate Flows: None
Post Condition:	The user should be logged out