

ITCS 6112 Fall 2021

Software Systems Implementation and Design

VISION

Standard Operating Procedure (User Manual)

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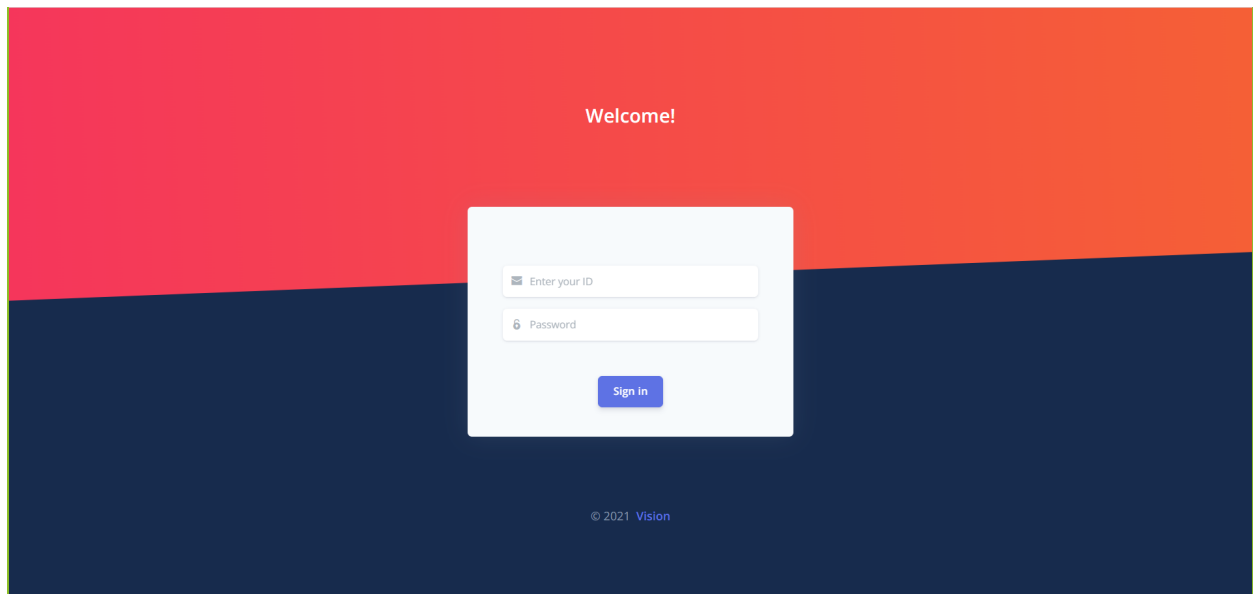
Introduction

This document details every feature in the Vision Web Application, how to use and navigate the web application.

Pages

Login

The first page that is displayed is the login page, the Health Care Professional (HCP) can log into the system using the HCP Id and password.



Left Pane

The left pane is where the user can navigate to different functionalities in the web application.

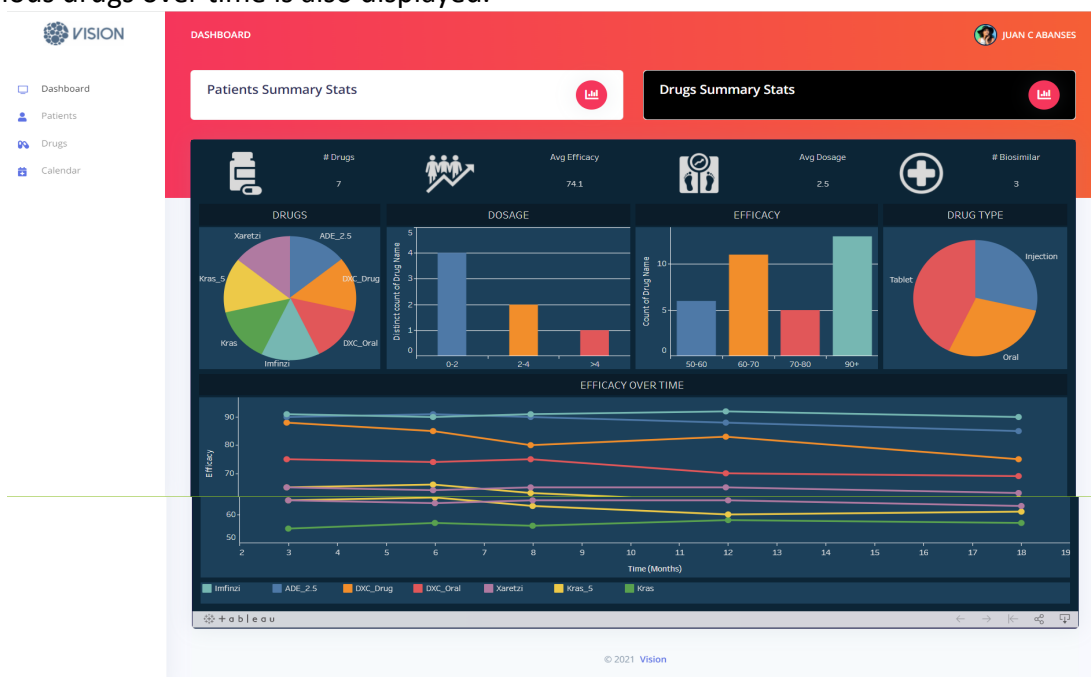
Dashboard

The dashboard displays statistics of patients and drugs. The dashboard is hosted on tableau and uses the data from the database.

The Patient statistics displays the distribution of patients across Age, Weight, Cancer Stage groups. Also, tells how many patients do drinks or smokes.



The Drug statistics portrays about the each drugs its dosage and efficacy. The efficacy of various drugs over time is also displayed.



Patients

The patients page allows the HCP to view the patient history and predicted stage of where the patient would be given his current drug and infection progression. The user can also search for a particular patient. The actions pane opens up the option for setting up appointment, predictions, view history.

PATIENTS

Patient Data

NAME	CITY	PHONE NUMBER	DATE	ID	HEIGHT	WEIGHT	AGE	ACTION
Whitney Johnson	Sewickley	929-428-6732	5/20/2012	2433445420	7.04	119.37	61	i
Kayla Myers	Genesee Depot	196-190-1536	3/29/1979	3366528450	4.11	113.68	60	i
Susan Barajas	Tushka	900-582-7697	11/5/1996	3532857054	5.57	72.7	64	i
Daniel Delacruz	Mount Jackson	158-349-3547	8/23/1987	1502585609	5.14	48.11	17	i
Albert Reyes	Funkstown	750-385-7128	5/16/2021	8376011192	6.33	112.49	28	i

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Actions

The screenshot shows the VISION PATIENTS interface. On the left is a sidebar with navigation links: Dashboard, Patients, Drugs, and Calendar. The main header is red with the VISION logo and the user name JUAN C ABANES. The main content area is dark blue and contains a 'Patient Data' table. A modal window titled 'Prediction Details' is open, displaying information for Whitney Johnson.

Patient Data Table:

NAME	CITY	PHONE NUMBER	DATE	ID	HEIGHT	WEIGHT	AGE	ACTION
Whitney Johnson				2433445420	7.04	119.37	61	⋮
Kayla Myers	G			3366528450	4.11	113.68	60	⋮
Susan Barajas				3532857054	5.57	72.7	64	⋮
Daniel Delacruz	M			1502585609	5.14	48.11	17	⋮
Albert Reyes				8376011192	6.33	112.49	28	⋮

Prediction Details Modal:

Name: Whitney Johnson
 Prescribed Drugs: Kras
 Cancer Stage: 1
 Prediction Stage: 2

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Prediction

The screenshot shows the VISION PATIENTS interface. On the left is a sidebar with navigation links: Dashboard, Patients, Drugs, and Calendar. The main header is red with the VISION logo and the user name JUAN C ABANES. The main content area is dark blue and contains a 'Patient Data' table. A modal window titled 'Patient History' is open, displaying information for Whitney Johnson.

Patient Data Table:

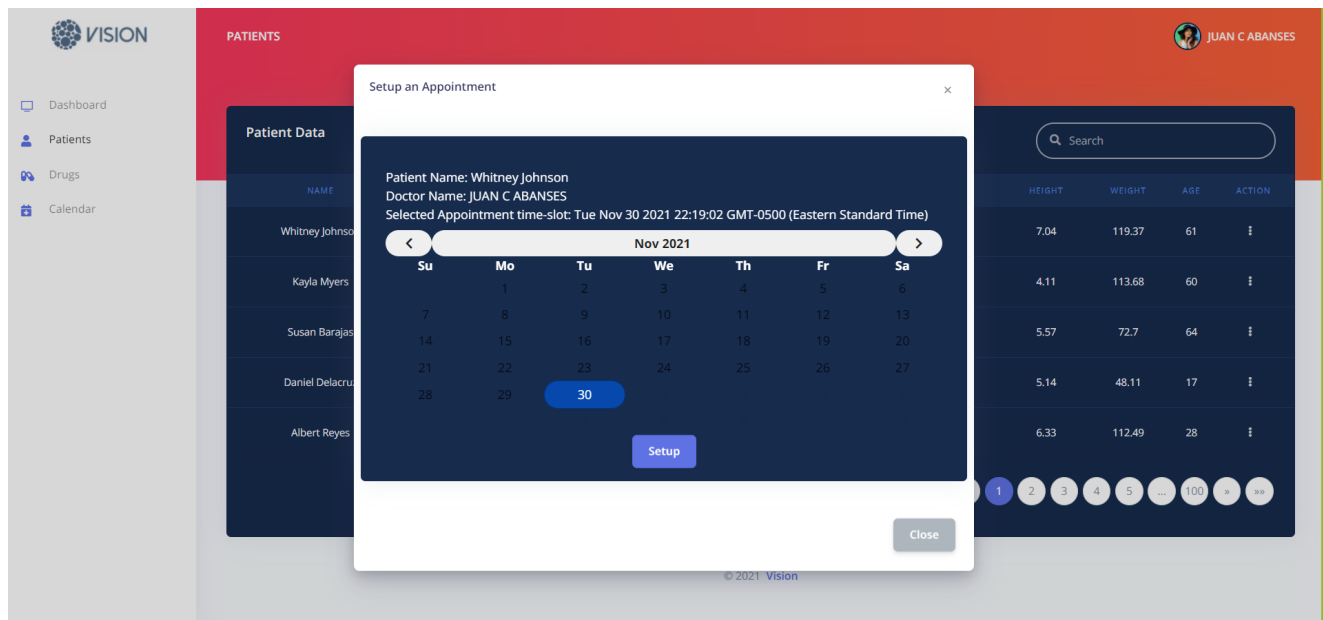
NAME	CITY	PHONE NUMBER	DATE	ID	HEIGHT	WEIGHT	AGE	ACTION
Whitney Johnson				2433445420	7.04	119.37	61	⋮
Kayla Myers	G			3366528450	4.11	113.68	60	⋮
Susan Barajas				3532857054	5.57	72.7	64	⋮
Daniel Delacruz	M			1502585609	5.14	48.11	17	⋮
Albert Reyes				8376011192	6.33	112.49	28	⋮

Patient History Modal:

Patient Name: Whitney Johnson
 Date: 2012-05-20
 Blood Pressure (Diastolic): 122mm/Hg
 Blood Pressure (Systolic): 92mm/Hg
 Double Lung Infection: 0
 Stage: 1
 Tumor Size: 5
 Body Temperature: 98
 Drug: Lung_Cure

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Patient History



Setup Appointment

Drugs

The drugs page displays different drugs and their efficacy, dosage and type.

The User can select the patient and the drug and find the efficacy for the patient for the selected drug.

The screenshot shows the 'VISION' application interface with the 'DRUGS' section selected. The left sidebar contains links to Dashboard, Patients, Drugs, and Calendar. The main content area displays a 'Drug Data' table and a 'Drug Efficacy Prediction' form.

NAME	BIOSIMILAR	DOSAGE	EFFICACY	TIME	TYPE
ADE_2.5	1	2	88.8	9.4	Injection
DXC_Drug	0	3	82.2	9.4	Tablet
DXC_Oral	0	2.5	72.6	9.4	Oral
Imfinzi	1	2	90.8	9.4	Injection
Kras	0	2	56.6	9.4	Oral

Below the table is a 'Drug Efficacy Prediction' section with the following details:

- Select Patient: Whitney Johnson
- Select Drug: ADE_2.5
- Predict button
- Efficacy Predicted: 68.86 %

Appointment

The appointment page displays the calendar from which the user can select the date and view the appointments scheduled for the day.

The screenshot shows the 'VISION' application interface with the 'CALENDAR' section selected. The left sidebar contains links to Dashboard, Patients, Drugs, and Calendar. The main content area displays a calendar for December 2021 and a table of appointment data for December 1, 2021.

Appointment Data on Dec 1, 2021

PATIENT NAME	DOCTOR NAME	DATE AND TIME	DOCTOR NOTES
Whitney Johnson	JUAN C ABANSES	Wed, 01 Dec 2021 13:00:00 GMT	—
Daniel Delacruz	JUAN C ABANSES	Wed, 01 Dec 2021 06:00:00 GMT	—

Logout

The user can log out at any time by clicking on his username from the top right corner and by clicking on the logout.

The screenshot displays a medical software interface with a sidebar on the left containing navigation links: Dashboard, Patients, Drugs, and Calendar. The main content area is titled 'CALENDAR' and features a calendar for December 2021. The calendar shows the 1st of December as the selected date. Below the calendar, a table titled 'Appointment Data on Dec 1, 2021' lists two appointments. The table has four columns: Patient Name, Doctor Name, Date and Time, and Doctor Notes. The appointments are for Whitney Johnson and Daniel Delacruz, both with Dr. Juan C. Abanes. The interface also includes a user profile for Juan C. Abanes in the top right corner with a 'Logout' button.

Appointment Data on Dec 1, 2021

PATIENT NAME	DOCTOR NAME	DATE AND TIME	DOCTOR NOTES
Whitney Johnson	JUAN C ABANES	Wed, 01 Dec 2021 13:00:00 GMT	—
Daniel Delacruz	JUAN C ABANES	Wed, 01 Dec 2021 06:00:00 GMT	—