

A Vaccine Record Management System by Apollo

User Guide by Ankit V and Yash R

Introduction

During the COVID-19 pandemic, immunizations were essential in saving millions of lives. Therefore, the goal is to develop a system for managing vaccine records.

Each patient's data, including name, age, weight, height, name of the vaccine, date of administration, and due date, is tracked by this patient database and vaccine record management system. For the System User, patient records should be able to be searched and sorted by name and date. Each Patient Record will also be able to provide mobile alerts for each patient in the event that their vaccination date is advanced or delayed. Last but not least, the System will be managed using a Graphical User Interface (GUI).

Aim of the Project :

This strategy might be helpful for managing immunisation records for staff members at work, school, and colleges. It will help make that establishment a secure place for everyone. To ensure that everyone receives a vaccination, this interface was created. Such a simple, user-friendly, and cost-effective option would inspire small enterprises and other organisations to adopt a more systematic approach to immunizations.

Brief Overview :

- A patient's name, age, weight, email address, vaccine name, vaccination date, and next vaccination due date are all entered by the operator. The data is subsequently saved by the operator on the computer and is kept in a MySQL database.
- An entry form, buttons to sort the data (by name, age, and due date), a search field, and an exit button are all included on the main page. The data can be sorted by names,

ages, or due dates; if any of these options is chosen, a table with all the data will be displayed. Users can also look up names, read their details, and, if required, delete them. The application can also send email alerts.

Workflow:

- The data is stored in the MySQL database and the software is created in Python. The libraries pillow, MySQL connector, Tkinter, and tk calendar are utilised.
- Data can be imported, sorted, and created into tables in the software for convenient access. The application uses the LIST data structure because it is easy to cycle through and enables for data access and modification. Google's Gmail API is used to send email notifications.

Visual Representation:

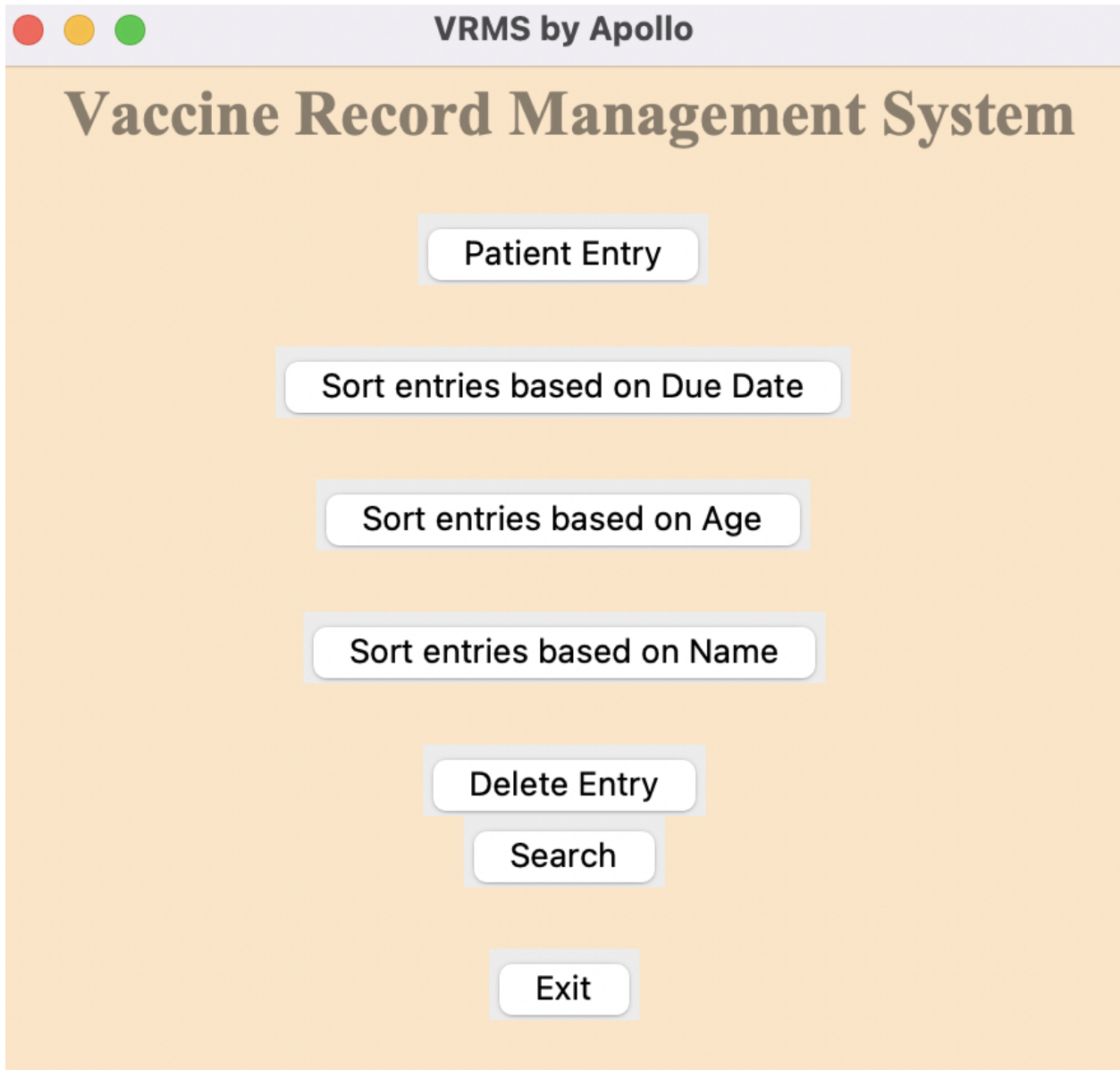




Image 1: Homepage of the GUI

VRMS by Apollo

Vaccine Record Management System

Patient Entry Form

Name	<input type="text"/>
Age	<input type="text"/>
Weight (in kg)	<input type="text"/>
Vaccine Name	<input type="text"/>
Date Taken	<input type="text" value="04/11/2022"/> 
Due Date	<input type="text" value="04/11/2022"/> 
Email	<input type="text"/>

Go Back

Save

Image 2: Patient Entry Form which will enable the admin to log patient data to a MYSQL database.

Vaccine Record Management System						
Name	Age	Weight	Vaccine Name	Date Taken	Due Date	Email
Sukesh Shetty	23	83	Moderna	2022-06-04	2022-08-03	sukesh.s@atria
Ankit Kumar	21	61	Covishield	2022-07-07	2022-09-05	ankit.k@atriaur
Pratik J	19	55	Covaxin	2022-09-29	2022-11-28	pratik.j@atriaur
Yash Raj	19	75	Covaxin	2022-10-06	2022-12-05	yash.r@atriaun
Satyam Abhish	22	59	Sputnik V	2022-10-15	2022-12-14	satyam.a@atria
Sharwin Harkal	20	65	AstraZeneca	2022-11-04	2023-01-03	sharwin.h@atri
Ankit Verma	22	69	Moderna	2022-11-16	2023-01-15	ankit.v@atriaur
Back						

Image 3: Sorting the patient data by Due Date, i.e., how soon they'll have to take the second dose.

Vaccine Record Management System						
Name	Age	Weight	Vaccine Name	Date Taken	Due Date	Email
Pratik J	19	55	Covaxin	2022-09-29	2022-11-28	pratik.j@atriaur
Yash Raj	19	75	Covaxin	2022-10-06	2022-12-05	yash.r@atriaun
Sharwin Harkal	20	65	AstraZeneca	2022-11-04	2023-01-03	sharwin.h@atri
Ankit Kumar	21	61	Covishield	2022-07-07	2022-09-05	ankit.k@atriaur
Satyam Abhish	22	59	Sputnik V	2022-10-15	2022-12-14	satyam.a@atria
Ankit Verma	22	69	Moderna	2022-11-16	2023-01-15	ankit.v@atriaur
Sukesh Shetty	23	83	Moderna	2022-06-04	2022-08-03	sukesh.s@atria
Back						

Image 4: Sorting the patient data by Age

Vaccine Record Management System						
Name	Age	Weight	Vaccine Name	Date Taken	Due Date	Email
Ankit Kumar	21	61	Covishield	2022-07-07	2022-09-05	ankit.k@atriauniversity
Ankit Verma	22	69	Moderna	2022-11-16	2023-01-15	ankit.v@atriauniversity
Pratik J	19	55	Covaxin	2022-09-29	2022-11-28	pratik.j@atriauniversity
Satyam Abhishek	22	59	Sputnik V	2022-10-15	2022-12-14	satyam.a@atriauniversity
Sharwin Harkal	20	65	AstraZeneca	2022-11-04	2023-01-03	sharwin.h@atriauniversity
Sukesh Shetty	23	83	Moderna	2022-06-04	2022-08-03	sukesh.s@atriauniversity
Yash Raj	19	75	Covaxin	2022-10-06	2022-12-05	yash.r@atriauniversity

Back

Image 5: Sorting the patient data by Name

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Vaccine Record Management System

Name of Patient

Delete

Name	Age	Weight	Vaccine Name	Date Taken	Due Date	Email
Ankit Kumar	21	61	Covishield	2022-07-07	2022-09-05	ankit.k@atriauniversity
Ankit Verma	22	69	Moderna	2022-11-16	2023-01-15	ankit.v@atriauniversity
Pratik J	19	55	Covaxin	2022-09-29	2022-11-28	pratik.j@atriauniversity
Satyam Abhishek	22	59	Sputnik V	2022-10-15	2022-12-14	satyam.a@atriauniversity
Sharwin Harkal	20	65	AstraZeneca	2022-11-04	2023-01-03	sharwin.h@atriauniversity
Sukesh Shetty	23	83	Moderna	2022-06-04	2022-08-03	sukesh.s@atriauniversity
Yash Raj	19	75	Covaxin	2022-10-06	2022-12-05	yash.r@atriauniversity

Image 6: Window to delete any patient entry; also provided the current total entries in the same window for ease of use.

Vaccine Record Management System

Vaccine Record Management System

Enter the name of the Patient:

Search Back

Image 7: Search the entire database by providing a particular patient's name.

Vaccine Record Management System

Vaccine Record Management System

Enter the name of the Patient:

Name	Age	Weight	Vaccine Name	Date Taken	Due Date	Email
Yash Raj	19	75	Covaxin	2022-10-06	2022-12-05	yash.r@atriaun

Image 8: Window which furnishes the details of the desired patient after inputting their name.