

DIGITAL POLIO VACCINATION SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION

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○ TITLE PAGE

- B. Project Title
- C. Project Adviser Name
- D. Project Secondary Adviser Name
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- G. Signatures of Project Adviser and Project Secondary Adviser
- H. Signatures of Team Members

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Revision History

Name	Date	Reason For Changes	Version
V 2.0	06/06/2021	Changes While Implementation	2.0

1. Introduction and Background

Information technology has revolutionized the health care sector over the last two decades. While other countries are integrating advanced technologies into their health care system; Pakistan is lagging and making very little progress in adapting to this change. Medical records are still kept bundled in paper files rendered to very little use. It is safe to say that we live in the age of data and human beings are producing tons of tons of data as compared to the late 1900s and early 2000s. One must understand the digitalization of data management can be used to obtain useful insights and analytics for the betterment of Pakistan's health care system. Polio, or poliomyelitis, is a disabling and life-threatening disease caused by the poliovirus. The virus spreads from person to person and can infect the spinal cord of an individual, causing paralysis. For most countries, polio is a thing of the past but Pakistan along with Afghanistan and Nigeria is still fighting this disease due to improper record-keeping, a paper-based vaccination system, ineffective tracking of positive cases, incomplete/incorrect record of non-compliant families and no use of contact tracing. The above-mentioned is a result of negligence from the government but other factors such as Conspiracy Theories, Religious/Tribal Values, and High-Risk areas are also responsible for non-eradication of the Polio-Virus from Pakistan. Although Pakistan has been blessed with an abundance of polio vaccines, the vaccination process itself is ineffective and outdated. The vaccination is carried out by polio teams that comprises 2-3 people sometimes accompanied by police or other law enforcement personals, These teams are managed and overlooked by an area in-charge for a particular UC (Union Council), District or City. Every team is given a paper sheet in which data is recorded once an individual of age 5 or younger is vaccinated; moreover a certain Alpha-Numeric code is also chalked on the wall or gate of every household in the area.

1.1 Product (Problem Statement)

Wellbeing data innovation reformed the world with its incredible development and inescapable use in the area of medical care frameworks. A large portion of the created nations received trend setting innovation in their inoculation frameworks. Immunization frameworks of many non-industrial nations actually do not have the utilization of innovation ultimately making botch and defilement happen in inoculation crusades.

Issues like fumble and debasement influence immunization crusades as well as motivation further dispersion of an illness. Pakistan is additionally one of such nations where the immunization framework is inclined to these and numerous different issues and consequently it doesn't help in infection annihilation. For instance, polio stays alive in Pakistan since Pakistan's Polio inoculation framework is confronted with numerous issues.

These issues include, Corruption, mismanagement, unawareness of the public, lack of facilities, lack of knowledge about the system, security, life-threat to the vaccination teams etc. These issues are not only destroying the system but also helping to increase the disease rate in the country as well. As we all know about the current situation of our Polio Vaccination System. It contains a lot of issues that have to be resolved.

1.2 Background

Progress was made by accomplishing over 95% inclusion in strengthening vaccination exercises, which was beforehand only 30% in enormous zones of the country. There was a reformist decrease in new polio cases from an expected 20,000–30,000 cases each year years and years prior to only 40 cases in 2006. Once dislodged, they may convey the infection to other upset zones of the world, where they went to join the battling. The causative strain was WPV1 – hereditarily like that coursing in Pakistan.

Hereditarily, the causative viral strain had come from Pakistan. Back in Pakistan, 2014 was the most exceedingly terrible year in its set of experiences for polio annihilation – maybe in light of the fact that inoculation laborers were associated with being unfamiliar specialists in camouflage and were assaulted and murdered in extraordinary numbers. Thus, Pakistan turned into the focal point of the proliferation of poliovirus. The continuous influx of psychological oppression, trailed by military activity in the Federally Administered Tribal Areas , prompted the uprooting of in any event 1,000,000 tribesmen, ladies and youngsters.

Anybody conveying the immunization risked having their hand cleaved off, and there are reports of individuals concealing the antibody in a cup and overseeing it to their kids. This brought up issues about the virus chain upkeep and consequently the viability of the immunization. Not many offspring of uprooted families have gotten the immunization and they presently should be explicitly focused on. An instance of crippled polio is only a hint of something larger, as it could be joined by many asymptotically contaminated individuals, who discharge the infection in their excrement.

In the sewage of metropolitan regions, WPV-1 – alongside two strains of immunization determined poliovirus – were found with expanding recurrence. s clearly the principle upsurge of polio cases was found in the FATA – the fundamental center of psychological militant camps and framework – the Pakistan military dispatched definitive activity in June 2014 and the zone was freed from fear based oppressors. 13 This has clearly brought about the control of polio, as the immunization arrived at the region after rebuilding of lawfulness. Also, the inside uprooted individuals got an opportunity to inoculate their kids, which had not been conceivable in the regions under assailant control.

Furthermore, a portion of the fear mongers spread all through the country and kept on focusing on polio immunization laborers across Pakistan. At present, no zone in Pakistan is under assailant occupation, except for a couple of dispersed pockets of impact and sleeper cells. Now come to the main point regarding our proposed system that will be effectively helpful for the Polio vaccination system. The system that exists in this era is not much advanced for dealing with the current situation of the Polio vaccination system. In the current system there is no record keeping database system that would help to find some records if needed in the future. For instance, if a user wants to check the details of last year's data for a specific location. Then he/she must need to coordinate with the relevant authorities to find it but in the backend nobody knows that data will be available or not because it's in the physical form like on registers, hardcopies etc. So the system that we are going to propose will be

able to store the data in a professional manner using some databases so that data can be retrieved easily and anytime by the user.

The second main point that we are going to discuss here is that there is no tracking system. For instance, if the supervisor is supposed to complete the task in specified time and he/she wants to check the status out. He/she will not be able to find this because there is no tracking system in our current polio vaccination system. This thing sets us in trouble that nobody knows how many children are being vaccinated at the specified time or how many children are left. So we are going to develop a tracking system for our proposed system.

There is another problem occurring in the current system. The problem is the user does not know about the positive cases in a specified location until and unless some official lets him know about the situation.

1.3 Scope

The Digital Polio Vaccination focuses on reducing the ratio of Polio cases in the region that can make a Polio free Pakistan in future. The proposed system will be providing the data regarding the current polio situation. It will trace all the team members. It will have the functionality for generating QR tags that will help accessing the data safely and securely.

In our proposed system all the information will be shown in the application(Mobile application) under the Dashboard tab. Where they can see the details regarding their team.

Polio workers will be able to enter the data of the house where the child is being vaccinated through scanning the QR code. All the data of the campaign will appear after completing the vaccination process.

1.4 Objective(s)/Aim(s)/Target(s)

- The primary goal of planning this venture is to make Pakistan a POLIO FREE Country.
- This will enhance the whole vaccination process and maximize the productivity of polio teams.
- The reason behind this undertaking is to make everything controlled and refreshed with the assistance of Information Technology while utilizing techniques of modern problem-solving.
- The framework that we will present depends on Databases, Web Application and Mobile Application.

1.5 Challenges

The main optional explanation behind lacking antibody take-up is strict restrictions. The strict effect on the take-up of inoculation is essential for the greater social opposition. This strict angle is fuelled by
<Group ID>

strict pioneers who include places inside the local area progressive system as assessment producers who can support nearby legends, for example, antibody results and immunization incited barrenness. For the most part, strict ministers in networks have, before, halted individuals taking up the polio antibody by considering it a Western ploy to disinfect Muslim kids and shut down Islamic descendants.

Absence of schooling on immunizations is a major issue as the choice to inoculate lies with families, with the mother having the main part in this. In a similar survey, 33% of moms didn't take their youngsters for inoculation and would not immunize their kids. The explanations behind this incorporated that they thought inoculation was pointless, that immunization really makes their youngsters debilitated and to a little extent considered their kids too wiped out to even think about accepting vaccination. This survey was led in one semi-metropolitan town in Sindh, so there might be contrasts in disposition in different regions of Pakistan, making it hard to extrapolate these discoveries to fabricate a cross country picture. Notwithstanding, it shows that these perspectives exist among Pakistani ladies and moms somewhat. This ought to be a territory of center for future vaccination projects to target. Consequently, the test for vaccination specialist co-ops is to offer guardians adjusted and thorough data about both the dangers and advantages of inoculation during guiding meetings.

Like schooling, the data or deception given to guardians shapes inoculation inclusion and has assumed a major part in the under immunization of the populace. For instance, research shows that the interest for OPV right now is high, and that there is high parental help for it. In any case, it is conceivable that this interest may fall later on as misguided judgments about inoculation and VPDs become more normal and are not tended to by inoculation programmes.⁵⁰ Trust among guardians assumes a significant part for immunization endeavors. Inside low clash regions of Pakistan which incorporate Sindh, KP and Punjab, it was discovered that 61% of guardians trust vaccinators. In any case, in high clash territories which incorporate FATA, this number was a lot lower at 28%. This absence of trust reaches out to additional mentalities which put inoculation in risk, for example, the view or gossip that immunization causes disinfection among young men and young ladies.

The weight of immunization preventable illnesses inside Pakistan over the previous decade has been dominated by polio. Pakistan is one of the three leftover nations in which Polio is endemic. For sure, the destruction of polio in Pakistan has seen one of a kind mishaps when contrasted with other VPDs and it is consequently that it is gainful to evaluate polio fairly independently. A few reports put polio inoculation inclusion as low as half in some areas. According to the global local area, Pakistan's inability to dispose of polio contributes significantly to its picture of disappointment as to transferable sicknesses and general wellbeing. In the event that end is accomplished the general wellbeing status of Pakistan could be extraordinarily improved, and exercises gained from this accomplishment can help other inoculation endeavors make progress.

The WHO reports that Valuable Vaccination Exercises (SIAs) have effectively brought about the disposal of polio internationally which is the main explanation behind high polio inclusion, and instances of poliomyelitis have diminished by 99% since 1988. The disappointment of polio annihilation in Pakistan, nonetheless, is making issues for the "worldwide situation for a polio free world". The degree of this VPD in the worldwide gathering has prompted various travel boycotts put

for Pakistan by the WHO and different nations. It is clear thus that the polio status of Pakistan is a worldwide concern, one that dominates the wellbeing profile of the nation incredibly. So far these are all the challenges the current Polio vaccination system is facing but that system that we proposed will be able to overcome these challenges.

1.6 Learning Outcomes

- How a digital System can change the situation of Polio in Pakistan.
- Making the system advanced means people will come to know about the bad situation of the Polio Vaccination system.
- Security and Integration will help to save the data at a single place.

1.7 Nature of End Product

Our proposed system comprises two major applications(Web Application, Mobile Application). The both applications have three major components(ADMIN, POLIO WORKERS, USERS). The system will basically be able to eliminate the current Vaccination System.

1.8 Completeness Criteria

A digital system while using the current system as a backbone simultaneously adding advancement and innovation.

- The system should provide the Administrator to track their teams, see the data for campaigns, search records, create or edit the data for his/her team.
- The proposed system should provide the Polio workers to stay in contact with the administration/operations/support to ensure smooth operation, can keep track of assigned tasks in an organized manner, and communicate with the clients/users.
- The proposed system should provide XYZ Transit employees all the tools at one placeof administration/operations/support.

1.9 Business Goals

There are no such business goals.

1.10 Related Work/ Literature Survey/ Literature Review

Some have proposed different solutions/ideas to combat this problem, but none has attempted to implement the proposed solutions. Refer to the below table to see the contrast between the current and proposed system.

Features	Current System	Proposed System
Digital Record Keeping	No	Yes
GPS Tracking (Team)	No	Yes

Area on Map	No	Yes
Volunteer Registration	No	Yes
QR- Tags (Alternative to Chalking)	No	Yes
Daily Reports	No	Yes
Active Polio Cases Tracker	No	Yes

1.11 Document Conventions

- FCCU Final Year Project Template (Traditional SRS)
- Times New Roman : 12
- Lucid Charts For Diagrams

2. Overall Description

2.1 Product Features

Territory in-control/Administrator

- The Area in-control by utilizing google guides can see rebelliousness cases, forthcoming youngsters cases and positive polio cases, by the scope and longitude gave by the android application.
- By utilizing Charts, the information in regards to group progress can be graphically addressed, so the Area in-control can outwardly see the improvement of the groups.
- Daily reports and QR-labels can be created in PDF (Portable Document Format).
- Area in-control can see the rundown of immunized houses/schools.
- Area in-control can see grumblings enlisted by the client.
- The Area in-control can make abounds, update the colleagues, and explicit association chambers to the groups.
- List of chipping in solicitations are to be appeared to the Area in-control, so he/she can either acknowledge or reject the solicitation or he/she can add a polio laborer.

Polio Workers

- The data about the colleague, zone in control and allocated territory to be appeared to the Team chief on a dashboard given by the android application.
- Polio laborers can see and alter house/school data by filtering QR-labels of houses/schools or by going into the house/school number and association committee number.
- Polio laborers can begin and complete the inoculation interaction.
- After the completing the inoculation interaction the application will show the quantity of inoculated houses to that group.

Client

- The Android application will permit the clients to check his/her home polio immunization status by filtering the QR-tag or by going into their home number furthermore, association committee and area.
- By utilizing the android application, the client can apply for the polio inoculation measure as a polio specialist by filling a structure, and in the wake of presenting the structure an extraordinary id number is given to the client so he/she can follow the solicitation status crusade as a polio specialist.
- The android application will give the office to the clients so he/she can see polio annihilation crusade dates of his/her region.
- The clients can enroll objections in the wake of enlisting a grumbling a special following a number is given to the client so he/she can follow protests.

2.2 User Classes and Characteristics

- **User**

- *CNIC*
- *Email*
- *Password*
- *UserType*
- *Login ()*
- *Logout ()*
- *Register()*

- **Admin**

- *CNIC*
- *Email*
- *Phone*
- *Password*
- *Address*
- *Area*
- *Edit Profile ()*
- *Login ()*
- *Logout ()*
- *Create Team ()*
- *Remove Team ()*
- *Edit Team ()*
- *Create Worker ()*
- *Remove Worker ()*
- *Edit Worker ()*
- *Create Campaign ()*
- *Remove Campaign ()*
- *Edit Campaign ()*
- *Search Records ()*
- *Post Updates/News ()*
- *See Complaints ()*
- *Reply to Complaints ()*
- *See Reports ()*
- *See Maps ()*
- *Track Workers ()*
- *Print QR Codes ()*

- **Polio Worker**

- *CNIC*
- *Email*
- *Phone*

- *Password*
- *Address*
- *Area*
- *Login ()*
- *Logout ()*
- *View Team ()*
- *Add/Update Record ()*
- *Search Records ()*
- *See Maps ()*
- *Scan QR Tag ()*
- *Generate QR Tag ()*
- *Report Case ()*

- **User (General Public)**

- *CNIC*
- *Email*
- *Password*
- *Address*
- *Login ()*
- *Logout ()*
- *Register ()*
- *File Complaint ()*
- *See News/Updates ()*
- *See Volunteer OPs ()*
- *Apply For Volunteer ()*

- **Campaign**

- *ID*
- *Name*
- *Duration*
- *Teams*
- *Area*

- **Team**

- *ID*
- *Name*
- *Members*
- *Leader*

- **Complaint**

- *ID*
- *User ID*
- *Status*

- *Comments*

2.3 Operating Environment

Software environment that we are going to use in our project will include;

For **Web Application:** We will use Bootstrap 5, CSS 3, Javascript(**FRONT END**)

We will use PHP (**BACK END**). For databases we will use MYSQL and Microsoft SQL Server.

For **Mobile Application:** For Mobile Application we will use **Android Studio.**

2.4 Assumptions and Dependencies

- Internet Services
- Google Cloud

3. Functional Requirements

Our system includes a web application and a mobile application. The web application will serve the Admin and User (General Public) whereas the mobile application will serve the Polio Worker and User (General Public). This system seeks to digitalize the current polio management framework and its aspects like record-keeping, complaints, tracking reports, etc.

Web Application (Admin Side)

- **Log In :** Every administrator will have to login into the system using their unique login credentials.
- **Admin Panel :** From the admin panel the administrator can view reports, important statistics, see active immunization campaigns, teams, area map, active cases, non-complaint cases etc.
- **Search Record :** The admin should be able to look for records from the database for instance family records, team records etc.
- **Create/Edit/Delete Team :** The admin should be able to create teams and assign them a specific area (union council) and tasks moreover the admin should also be able to edit and delete teams.
- **Complaints :** The admin should be able to view complaints filed by the general public, The admin can also reply to complaints and change their status.
- **Volunteer :** The admin should be able to see volunteer applications and can contact them by using the provided contact information.
- **Print QR Tags :** The admin should be able to print QR Tags generated by the polio workers.
- **GPS Tracking :** The admin can track the on ground team in real-time via google maps

Web Application (User/Client Side)

- **Registration/Signup :** The general public can register to the system in order to file complaints and apply for volunteer opportunities in their area.
- **Login :** The client should be able to login into the app and perform different actions like file complaints, check complaints, view updates/news etc.
- **File Complaint :** The registered users can file complaints regarding the issues in their areas.
- **Volunteer Application :** The registered users can apply for volunteer opportunities in their area.
- **Vaccination Campaigns :** The registered users can view all the active and upcoming vaccination campaigns in their area.
- **Updates/News :** The registered users can see news and updates regarding polio virus.

Mobile Application (Polio Worker Side)

- **Login :** Polio workers should be able login to the application with the provided login credentials.
- **View Team :** Polio workers should be able to view their team members and team roles.
- **Household Search :** Polio workers can lookup a household in the database using the CNIC of any household member.

- **Update Household Record :** Polio workers should update record of the household (vaccination status, vaccinated/unvaccinated members, comments etc)
- **Area Map :** Polio workers can see the area map, Can see the vaccinated/non vaccinated areas and relevant stats.
- **Generate QR Tags :** Polio workers should be able to generate QR tags (will contain household's vaccination status)
- **Scan QR Tags :** Polio worked should be able to scan QR-Tags to retrieve information.

Mobile Application (User/Client Side)

- **Registration/Signup :** The general public can register to the system in order to file complaints and apply for volunteer opportunities in their area.
- **Login :** The client should be able to login into the app and perform different actions like file complaints, check complaints, view updates/news etc.
- **File Complaint :** The registered users can file complaints regarding the issues in their areas.
- **Volunteer Application :** The registered users can apply for volunteer opportunities in their area.
- **Vaccination Campaigns :** The registered users can view all the active and upcoming vaccination campaigns in their area.
- **Updates/News :** The registered users can see news and updates regarding polio virus.

<All functional requirements are expressed as use-cases. Fill out the following template for each use-case. Don't really say "Use-Case 1." State the use-case name in just a few words e.g. "Withdraw Cash from ATM". A use-case may have multiple alternate courses of action.>

<Provide a Use Case Diagram before describing the use cases.>

3.1 Login (UC-1)

Identifier	UC-1	
Purpose	For User Authentication	
Priority	High	
Pre-conditions	User must be registered	
Post-condition s	Start user session and redirect to user home page	
Typical Course of Action		
S#	Actor Action	System Response
1	Enters login credentials	Checks the entered credentials
Alternate Course of Action		
S#	Actor Action	System Response
1	Enters login credentials	Checks; If wrong returns error message along with forgot password
2	Forgot password	Verifies the user and provide the option to reset
3	See Active Campaigns	User can see the active campaigns in a specific area
4	Volunteer Registration	User can register himself as a volunteer in his desire team and area
5	News/Updates	User can see the recent news and Updates regarding the Vaccination System
6	Complaints & Suggestions	User

3.2 LogOut (UC-2)

Identifier	UC-2	
Purpose	logging out the user and destroy current session	
Priority	High	
Pre-conditions	User must be logged in	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response

1	User Press LogOut Button	Destory's current session and sends user back to the login page
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3.3 Registration (UC-3)

Identifier	UC-3
Purpose	For user registration (gen public only)
Priority	High
Pre-conditions	N/A
Post-condition s	N/A

Typical Course of Action

S#	Actor Action	System Response
1	User navigates to registration page	Display's form
2	User enters data and press submit	validates form data and adds the user to the database then redirects the user to login page

Alternate Course of Action

S#	Actor Action	System Response
1	User enters invalid data	Highlight the invalid data field along with the error
2	User corrects the invalid data	validates form data and adds the user to the database then redirects the user to login page

3.4 Dashboard (UC - 4)

Identifier	UC-4
Purpose	To view the main page of user Panel
Priority	High
Pre-conditions	user type must be gen public
Post-condition s	N/A

Typical Course of Action		
S#	Actor Action	System Response
1	Press "Dashboard"	Display the list of all the data on dashboard including images and active campaigns
2	Press "Volunteer"	Go to the Volunteer Page
3	Press "News/Updates"	Go to the News/Updates Page
4	Press "Complaints"	Go to the Complaints page

3.5 Volunteer (UC-4a)

Identifier	UC-4a
Purpose	To See Volunteer Opportunities and Registration
Priority	High
Pre-conditions	Active user must be admin and can access this through admin panel
Post-condition s	N/A

Typical Course of Action

S#	Actor Action	System Response
1	Press "Volunteer"	Takes to the Volunteer page and apply for volunteer from the given list
2	Press "Volunteer "	Ask for details and register a Volunteer.

3.6 News/Updates (UC-4b)

Identifier	UC-4b
Purpose	To See News/Updates
Priority	High
Pre-conditions	Active user must be admin and can access this through admin panel

Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "News/Updates"	Takes to the News/Updates page
2	Press "News/Updates "	See the latest News and Updates

3.7 Complaints & Suggestions (UC-4c)

Identifier	UC-4c	
Purpose	To file a complaint	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Complaints"	Takes to the Complaints page
2	Press "Complaints"	Ask for details and file a Complaint.

3.8 Admin Panel/Area (UC-5)

Identifier	UC-5	
Purpose	To serve the admin with admin panel	
Priority	High	
Pre-conditions	Authenticating user must be admin	
Post-condition s	N/A	

Typical Course of Action		
S#	Actor Action	System Response
1	Admin Logins	Takes to Admin Panel

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3.9 Manage Campaigns (UC-6)

Identifier	UC-6
Purpose	To Manage Campaigns
Priority	High
Pre-conditions	Active user must be admin and can access this through admin panel
Post-condition s	N/A

Typical Course of Action		
S#	Actor Action	System Response
1	Press "Manage Campaigns"	Expands Sub Menu
2	Press "Create Campaign"	Asks for details and creates a campaign
3	Press "Remove Campaign"	removes the selected campaign
4	Press "Edit Campaign"	takes to edit campaign page for the selected campaign

3.10 Create Campaigns (UC-6a)

Identifier	UC-6a	
Purpose	To Create Campaigns	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Create Campaigns"	Takes to the create campaigns page
2	Press "Create Campaign"	Asks for details and creates a campaign.

3.11 Edit Campaigns (UC-6b)

Identifier	UC-6a	
Purpose	To Edit Campaigns	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Edit Campaigns"	Takes to the Edit campaigns page
2	Press "Create Campaign"	Asks for details and Edit a campaign.

3.12 Delete Campaigns (UC-6c)

Identifier	UC-6a	
Purpose	To Delete Campaigns	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	

Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Delete Campaigns"	Takes to the Delete campaigns page
2	Press "Delete Campaign"	Select the Campaign and Delete it.

3.13 Manage Teams (UC-7)

Identifier	UC-7	
Purpose	To Manage Teams	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Manage Teams"	Takes to the teams page
2	Press "Create Team"	Asks to select existing users or add new users and then ask for other info and creates a team
3	Press "Edit Team"	Takes to the edit team page for the selected team
4	Press "Delete Team"	Select the team and Delete it.

3.14 Create Teams (UC-7a)

Identifier	UC-7a
Purpose	To Create Team
Priority	High
Pre-conditions	Active user must be admin and can access this through admin panel

Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Create Team"	Takes to the create Team page
2	Press "Create Team"	Asks for details and creates a Team.

3.15 Edit Teams (UC - 7b)

Identifier	UC-7b	
Purpose	To Edit Team	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Edit Team"	Takes to the Edit Team page
2	Press "Edit Team"	Ask for details and Edit a Team.

3.16 Delete Teams (UC - 7c)

Identifier	UC-7c	
Purpose	To Delete Team	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Delete Team"	Takes to the Delete Team page
2	Press "Delete Team"	Select and Delete the required Team.

3.17 Manage Workers (UC - 8)

Identifier	UC-8	
Purpose	To Manage Workers	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Workers"	Takes to the Worker page
2	Press "Create Worker"	Ask for details and Create a Worker.
3	Press "Edit Worker"	Ask for details and edit the worker
4	Press "Delete Worker"	Select and Delete the Worker

3.18 Create Worker (UC - 8a)

Identifier	UC-8a	
Purpose	To Create Worker	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Create Worker"	Takes to the Create Worker page
2	Press "Edit Team"	Ask for details and Create a Worker

3.19 Edit Worker (UC - 8b)

Identifier	UC-8b
Purpose	To Edit Worker

Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Edit Worker"	Takes to the Edit Worker page
2	Press "Edit Worker"	Ask for details and Edit a Worker.

3.20 Delete Worker (UC - 8c)

Identifier	UC-8c	
Purpose	To Delete Worker	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Delete Worker"	Takes to the Delete Worker page
2	Press "Delete Worker"	Select and delete the Worker

3.21 Manage Complaints (UC-9)

Identifier	UC-9 (Admin)
Purpose	To Manage Complaints
Priority	Medium
Pre-conditions	Active user must be admin and can access this through admin panel
Post-condition s	N/A
Typical Course of Action	

S#	Actor Action	System Response
1	Press " Complaints"	takes to the complaints page
2	Press "Delete"	delete the data from database and send the success message
3	Press " Status "	changes the complaint's status accordingly

3.22 Delete (UC-9a)

Identifier	UC-9a	
Purpose	To Delete Complaint	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Delete Worker"	Delete the data from database
2	Press "Delete Worker"	Return the success message

3.23 Status (UC - 9b)

Identifier	UC-9b	
Purpose	To Check the status of Complaint	
Priority	High	
Pre-conditions	Active user must be admin and can access this through admin panel	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Status"	changes the complaint's status accordingly

3.24 Search Records (UC-10)

Identifier	UC-10	
Purpose	For searching records	
Priority	High	
Pre-conditions	User type must be admin or worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Search Record"	Asks for info regarding the record and display all the relevant records

3.25 Report (UC - 11)

Identifier	UC-11	
Purpose	For Report	
Priority	High	
Pre-conditions	User type must be admin or Worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press " Reports"	Takes to the Reports Page
2	Press "Select Duration"	Specific Duration to Generate the Report
3	Press "Generate and Download"	Generate and Download the Report

3.26 See Maps (UC - 12)

Identifier	UC-12	
Purpose	See Maps	
Priority	High	

Pre-conditions	User type must be admin or Worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press " Maps"	Takes to the Maps Page
2	Press "Maps"	See active campaigns, active workers, active cases and vaccinated areas on maps
3	Press "Maps"	See heat map for the maximum cases with red zone, average cases with yellow zone and null cases with green zone.
4	Press "Maps"	See real time tracker to track the teams, workers and campaigns.
5	Press "Maps"	See the current information about Polio in Pakistan.

3.27 News/Updates (UC-13)

Identifier	UC-13	
Purpose	To view news and updates	
Priority	High	
Pre-conditions	User must be Admin	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "News/Updates"	Display a list of all the news and updates
2	Press "Edit"	Edit the current News
3	Press "Delete"	Delete the Current News

3.28 QR Code (UC-14)

Identifier	UC-14
Purpose	To Generate the QR code
Priority	Low
Pre-conditions	Active user must be admin
Post-condition s	N/A

Typical Course of Action

S#	Actor Action	System Response
1	Press "QR code"	take to the page of QR code Generator
2	Press "Select Campaign"	Select the Campaign to generate QR code
3	Press "Generate and Download"	Generate and Download QR code.

3.29 Worker Panel/Dashboard (UC-15)

Identifier	UC-15
Purpose	For Polio Worker Panel
Priority	High
Pre-conditions	User type must be worker
Post-condition s	N/A

Typical Course of Action

S#	Actor Action	System Response
1	Logs In	Takes to the worker panel
2	Press "View Team"	Takes to View team page
3	Press "Polio Map"	Takes to the Polio Map page
4	Press "Heat Map"	Takes to the heat map page
5	Press "Household Record "	Takes to Household record page
6	Press "QR Code"	Takes to the QR Code page

3.30 View Team (UC-15a)

Identifier	UC-15a	
Purpose	To view the team's detail	
Priority	High	
Pre-conditions	User type must be worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "View Team"	Takes to View team page
2	Press "View Team"	See the team members on Map

3.31 Polio Map(UC-15b)

Identifier	UC-15b	
Purpose	To view the team's detail on map and see cases status on heatmap	
Priority	High	
Pre-conditions	User type must be worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "Polio Map"	Takes to the Polio map page
2	Press "Heatmap"	See the number of cases with the frequency in areas.

3.32 Household Record (UC-15c)

Identifier	UC-15c	
Purpose	To view the household record of house that is being vaccinated	
Priority	High	
Pre-conditions	User type must be worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response

1	Press "Household Record"	Takes to the Household record page
2	Press "Household Record"	Update the household record accordingly.

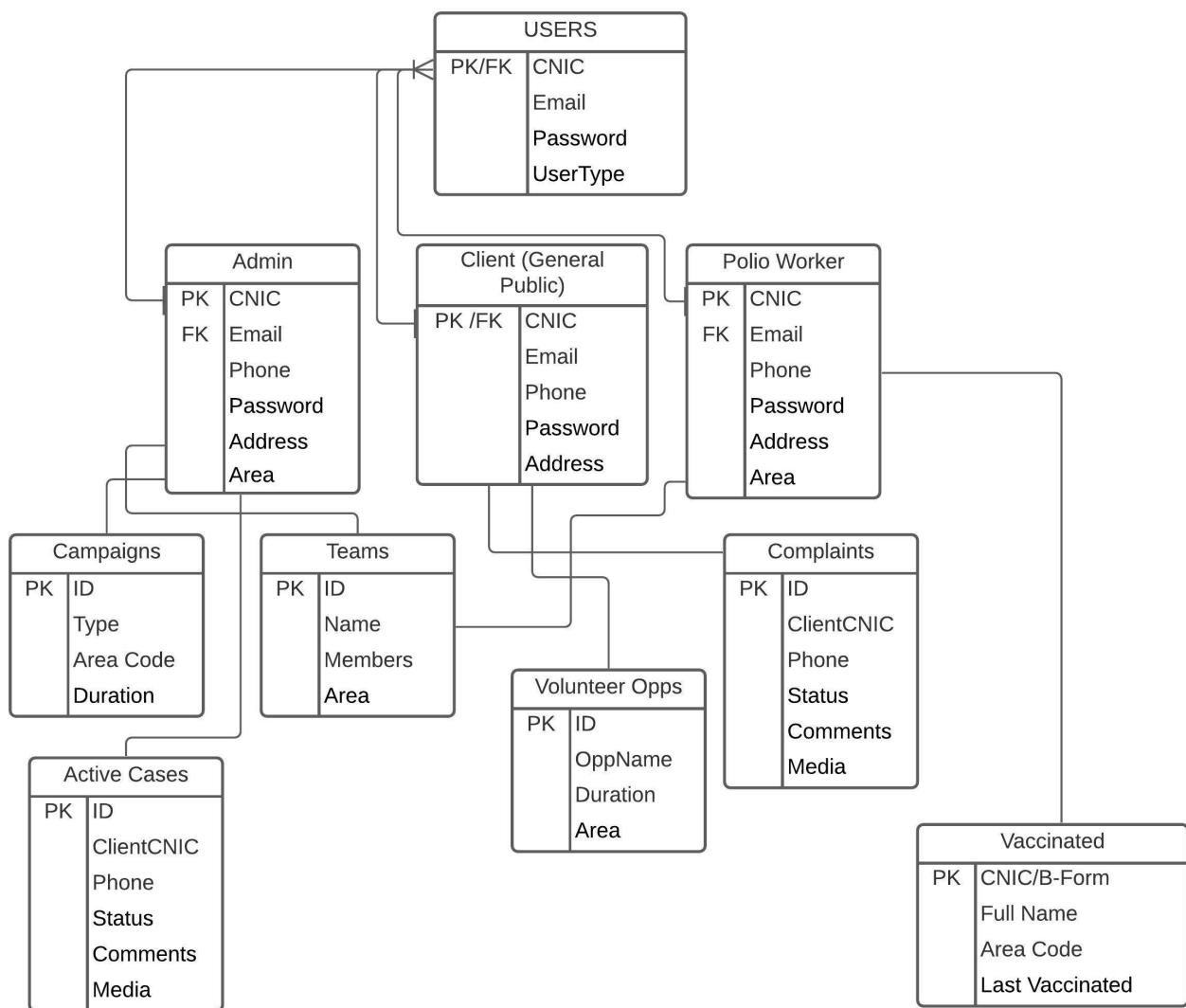
3.33 QR Code (UC-15d)

Identifier	UC-15d	
Purpose	To Generate the qr code	
Priority	High	
Pre-conditions	User type must be worker	
Post-condition s	N/A	
Typical Course of Action		
S#	Actor Action	System Response
1	Press "QR Code"	Takes to the qr code page
2	Press "QR Code"	Generate and download the qr code.

○

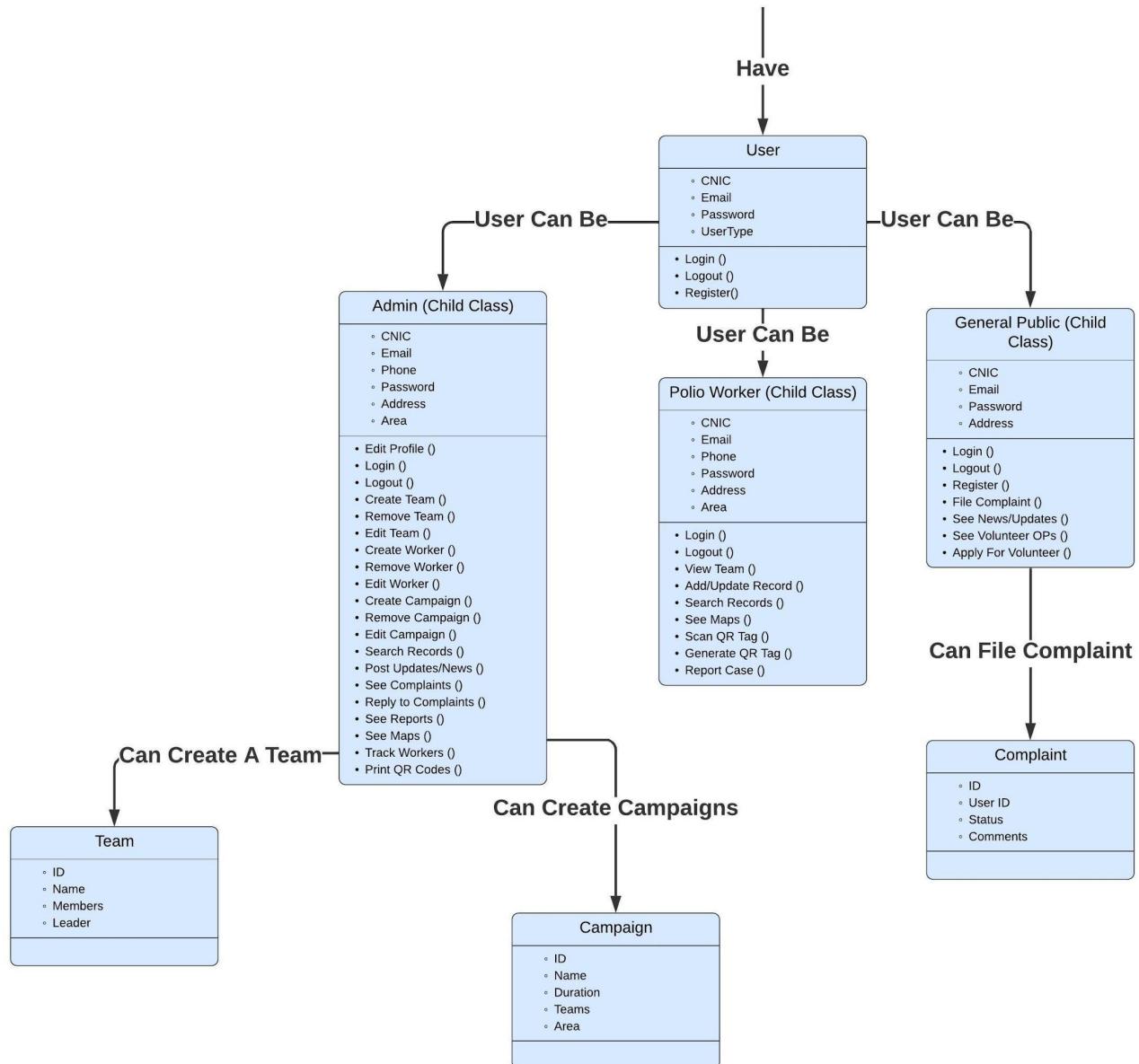
3.34 Requirements Analysis and Modeling

Abstract ERD

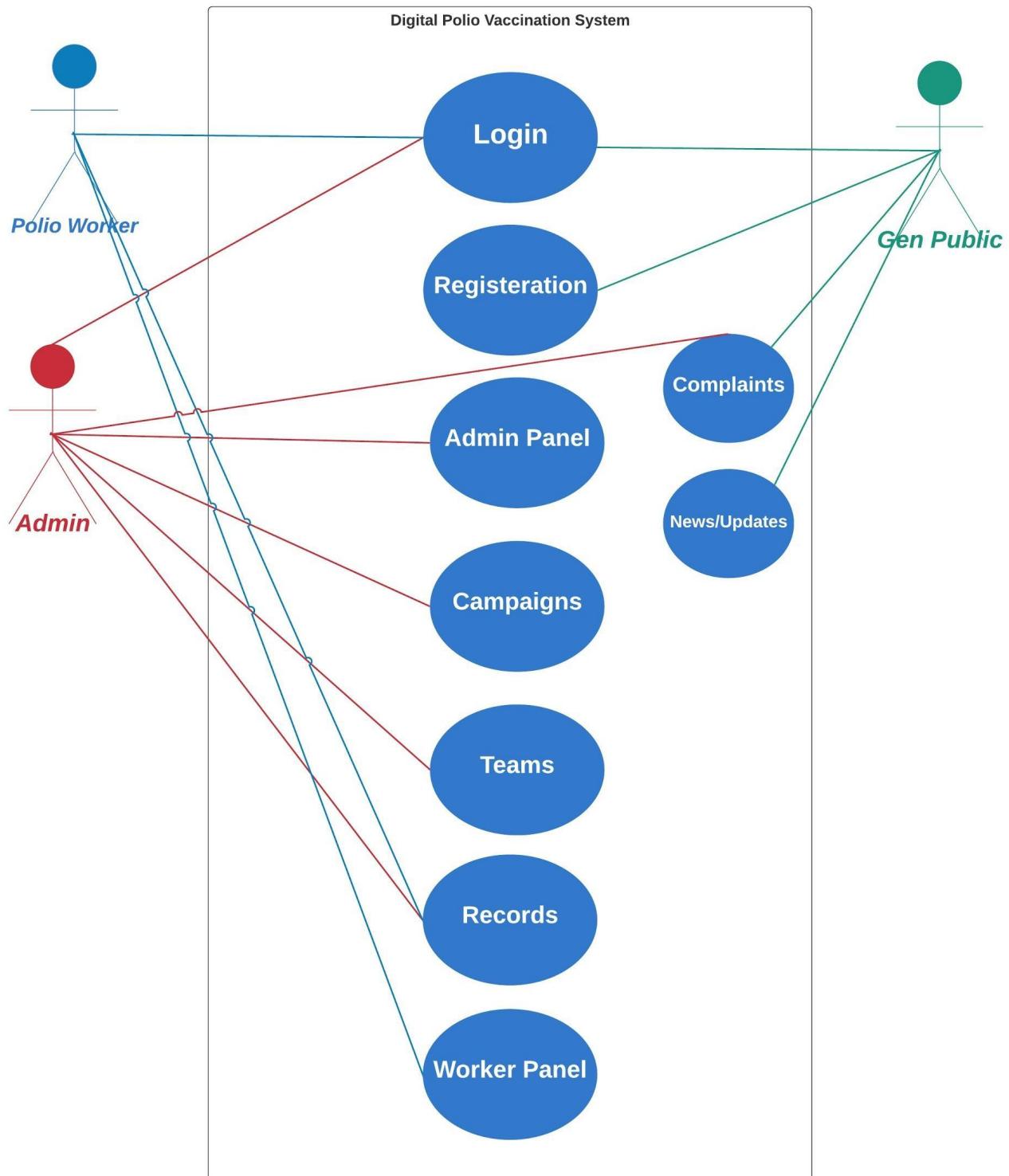


ABSTRACT CLASS DIAGRAM

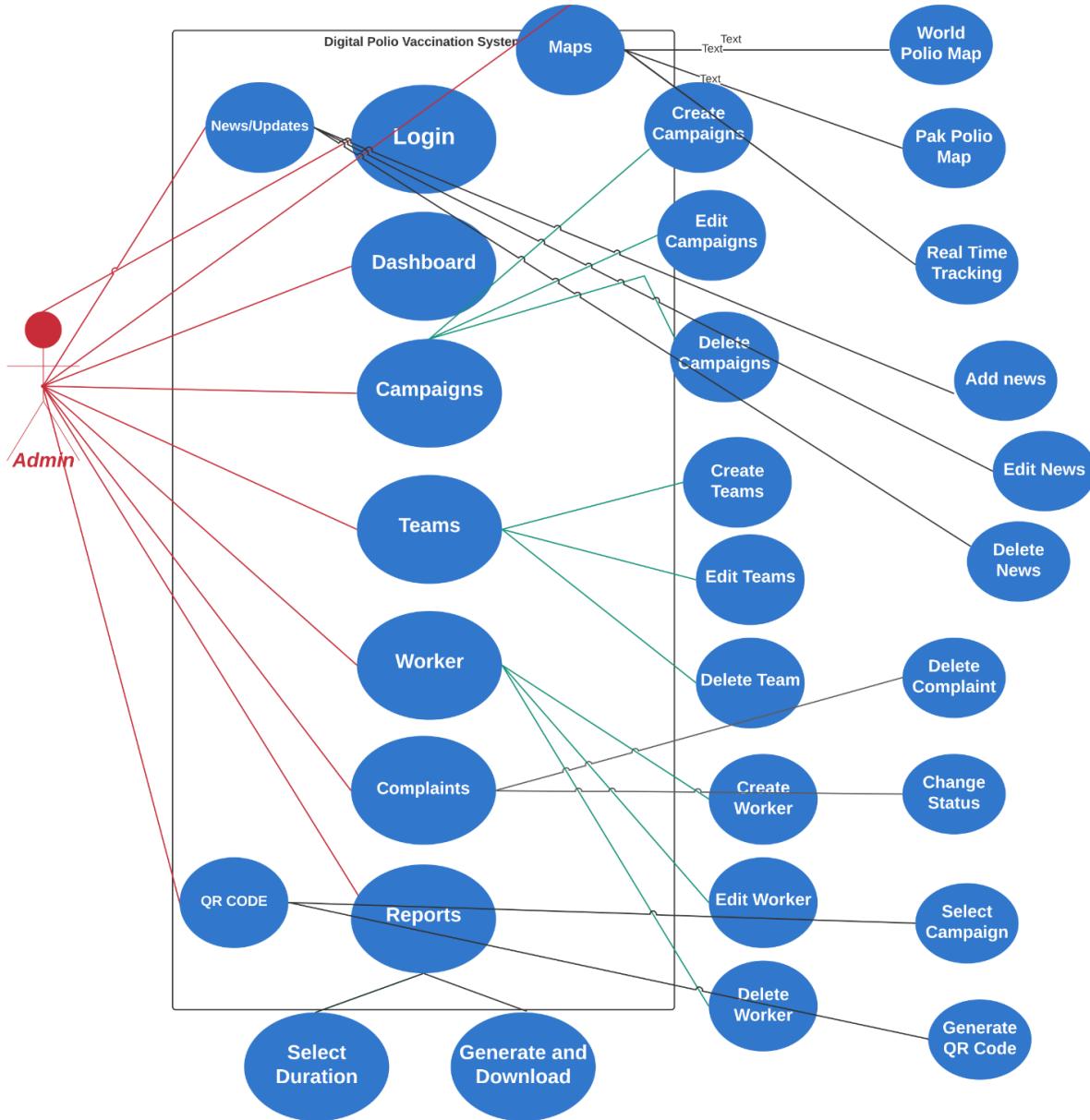
Digital Polio Vaccination System



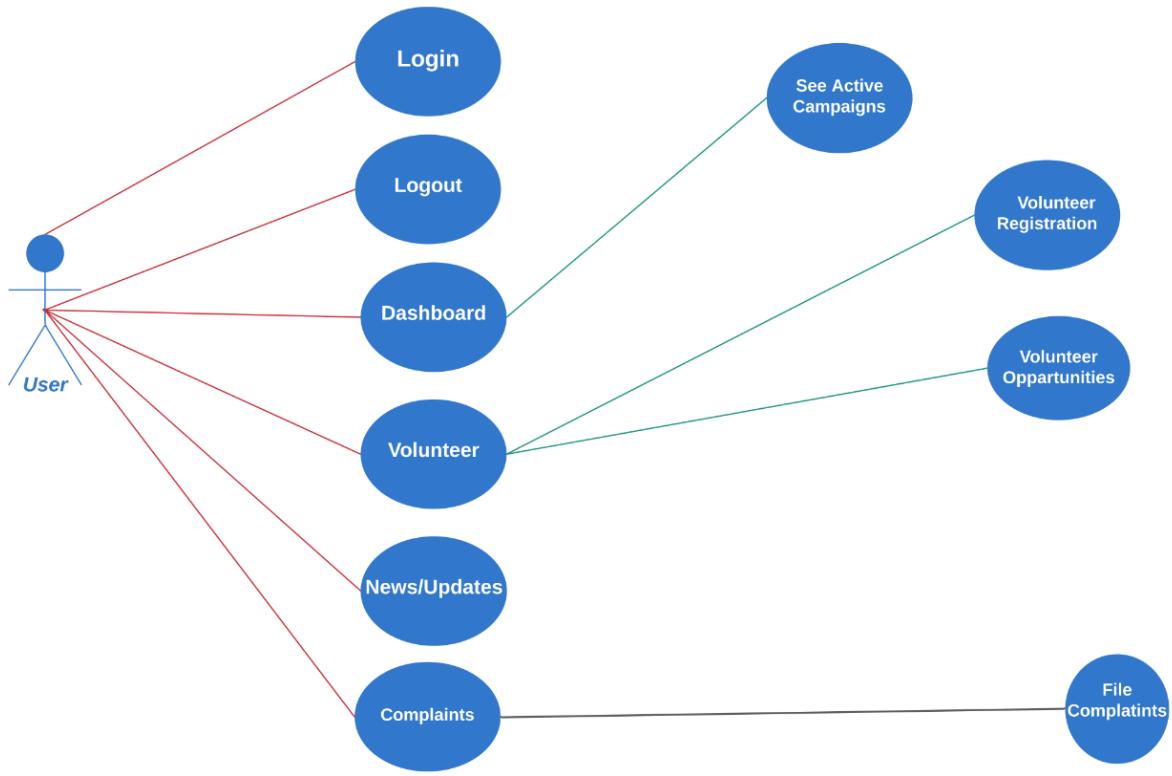
Digital Polio Vaccination System

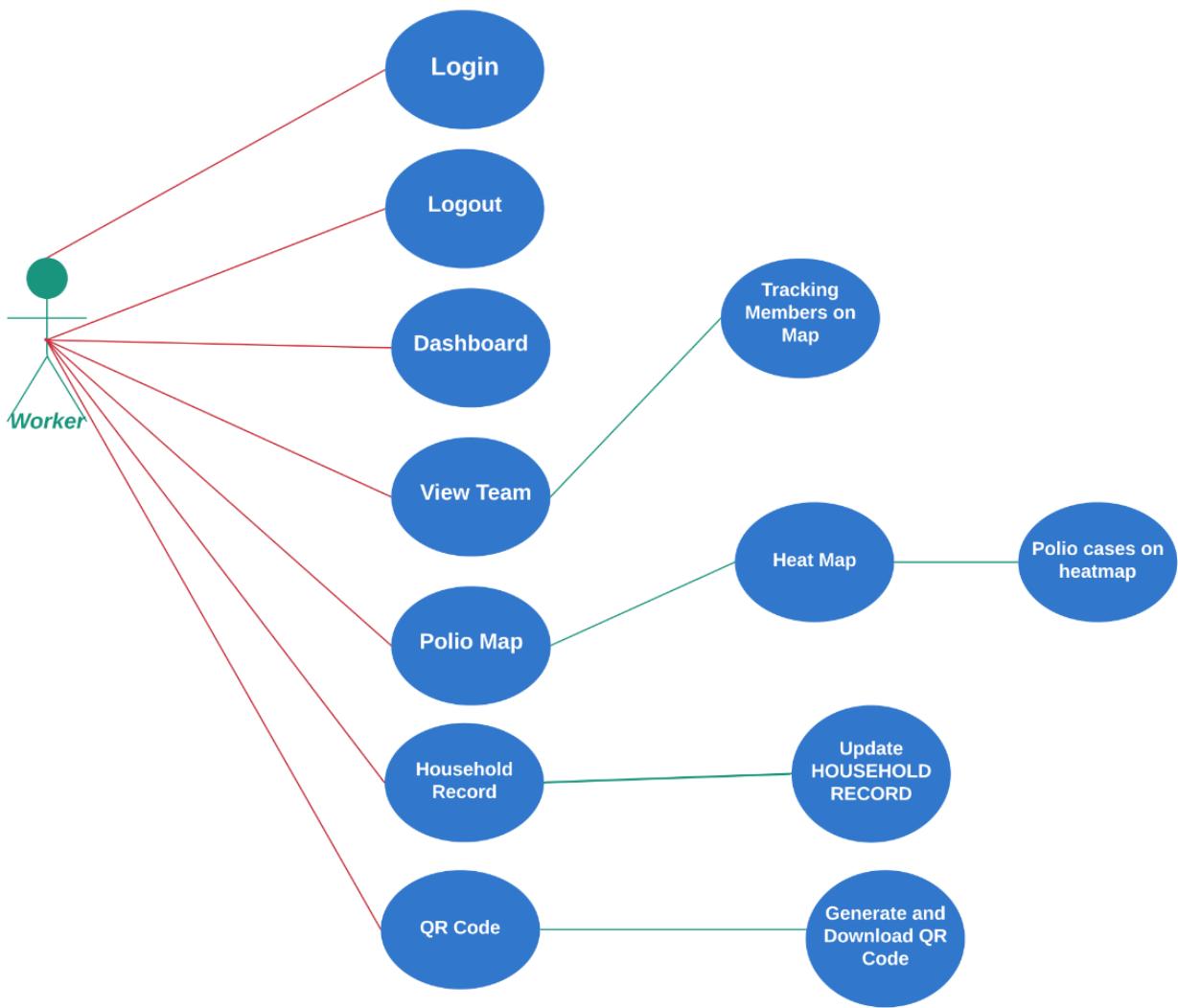


Digital Polio Vaccination System



Digital Polio Vaccination System





4. Nonfunctional Requirements

4.1 Performance Requirements

Performance requirements involve fluency of Data generation and the efficient working of both the Apps. A strong network connection makes it reliable and coherent to use while optimizing the desired results from the Apps. The apps are designed to function in such a way that each user has got his own convenience of maneuvering through the app and data generation is set accordingly so that no loss in data occurs.

4.2 Safety Requirements

The safety requirements involve the protection of the apps network which will be protected through a strong firewall so that no loss of confidential information or data loss occurs. Moreover authorized personnel will be the only one allowed to access the mainframe through the use of their specified ID and Passcode.

4.3 Security Requirements

The requirements for the security involve the database and the server to be accessed only by the authorized person. In addition, the data loss or data damage can occur and for that purpose a backup should be generated. Moreover, the mapping data should be updated efficiently with end to end encryptions to prevent system failure and data loss.

4.4 Additional Software Quality Attributes

In this project we have considered the problem of the old polio vaccination system and found the solution for them. It is important to note that the proposed system motivates in application of Polio Vaccination System, the utilized technologies, database, data generation, Mapping and data generation of Non-vaccinated Individuals.

5. Other Requirements

We have tried to cover each and everything related to this project of ours in this SRS document.

6. Prototype

6.1 Web Application



What Is Polio?	^
Polio or Poliomyelitis is a highly infectious disease that most commonly affects children under the age of 5. The virus is spread person to person, typically through contaminated water. It can attack the nervous system, and in some instances, lead to paralysis. Although there is no cure, there is a safe and effective vaccine – one which Rotary and its partners use to immunize over 2.5 billion children worldwide.	
Polio In Pakistan?	▼
How Can I Help?	▼

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Digital Polio Vaccination System



This requested URL was not found on this server.

[← Return to Home Page](#)

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The screenshot shows the login interface for the Polio Vaccination System. At the top center, the system's name is displayed in a bold, sans-serif font. Below it is a decorative icon depicting a computer monitor with a cloud and gears, surrounded by small colorful shapes. The main action is a large, centered "Please sign in" button. Below this button is a form containing two input fields: one for "Email address" and one for "Password". To the right of the password field is a "Remember me" checkbox. At the bottom of the form is a prominent blue "Sign in" button. At the very bottom of the page, a footer bar contains the same copyright information as the 404 page.

Polio Vaccination System

Please sign in

Email address

Password

Remember me

Sign in

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Digital Polio Vaccination System

6.1.1 Admin Panel

DPVS

- Dashboard
- Campaign
- Team
- Worker
- OTHER FUNCTIONS
- Complaints
- Reports
- Maps
- News/Updates
- QR Code Generator

Logged in as:
Admin

Dashboard

Active Cases

Date	Active Cases
Mar 1	10,000
Mar 2	30,000
Mar 3	25,000
Mar 5	15,000
Mar 7	28,000
Mar 9	30,000
Mar 11	22,000
Mar 13	35,000

Immunized Children

Month	Immunized Children
January	5,000
February	5,500
March	6,000
April	7,000
May	9,000
June	13,000

Polio Workers

Name	Position	Office	Age	Start date	Salary
Tiger Nixon	System Architect	Edinburgh	61	2011/04/25	\$320,800
Garrett Winters	Accountant	Tokyo	63	2011/07/25	\$170,750
Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060
Airi Satou	Accountant	Tokyo	33	2008/11/28	\$162,700

Showing 1 to 5 of 57 entries

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Logged in as:
Admin

Create Campaign

Campaign Form

Campaign ID

Campaign Name

Campaign Type

Start End

Create

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- [*Worker*](#)

OTHER FUNCTIONS

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- [*Reports*](#)
- [*Maps*](#)
- [*News/Updates*](#)
- [*QR Code Generator*](#)

Logged in as:
Admin

Search for...

Edit Campaigns

Active Campaigns

Name	Type	Area	Start date	End Date	Edit
Tiger Nixon	System Architect	Edinburgh	2011/04/25	2011/04/25	<input type="button" value="Edit"/>
Garrett Winters	Accountant	Tokyo	2011/07/25	2011/07/25	<input type="button" value="Edit"/>
Ashton Cox	Junior Technical Author	San Francisco	2009/01/12	2009/01/12	<input type="button" value="Edit"/>
Cedric Kelly	Senior Javascript Developer	Edinburgh	2012/03/29	2012/03/29	<input type="button" value="Edit"/>
Airi Satou	Accountant	Tokyo	2008/11/28	2008/11/28	<input type="button" value="Edit"/>

Showing 1 to 5 of 13 entries « 1 2 3 »

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- [*Team*](#)
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OTHER FUNCTIONS

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- [*Reports*](#)
- [*Maps*](#)
- [*News/Updates*](#)
- [*QR Code Generator*](#)

Logged in as:
Admin

Search for...

Delete Campaign

Active Campaign

Select	Name	Type	Area	Start Date	End Date
<input type="checkbox"/>	Tiger Nixon	System Architect	Edinburgh	2011/04/25	2011/04/25
<input type="checkbox"/>	Garrett Winters	Accountant	Tokyo	2011/07/25	2011/07/25
<input type="checkbox"/>	Ashton Cox	Junior Technical Author	San Francisco	2009/01/12	2009/01/12
<input type="checkbox"/>	Cedric Kelly	Senior Javascript Developer	Edinburgh	2012/03/29	2012/03/29
<input type="checkbox"/>	Airi Satou	Accountant	Tokyo	2008/11/28	2008/11/28

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DPVS

- <Dashboard>
- <Campaign>
- <Team>
- <Worker>
- OTHER FUNCTIONS**
- <Complaints>
- <Reports>
- <Maps>
- <News/Updates>
- <QR Code Generator>

Logged in as:
Admin

Search for...

Create Team

Team Form

Team ID	T1-2021
Team Name	Name Here
Area	eg : garden town
Members IDs	ID1, ID2, ID3...

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- <Campaign>
- <Team>
- <Worker>
- OTHER FUNCTIONS**
- <Complaints>
- <Reports>
- <Maps>
- <News/Updates>
- <QR Code Generator>

Logged in as:
Admin

Search for...

Edit Teams

Active Teams

Name	Area	Member IDs	Edit
Tiger Nixon	System Architect	1,2,3	<input type="button" value="Edit"/>
Garrett Winters	Accountant	1,2,3	<input type="button" value="Edit"/>
Ashton Cox	Junior Technical Author	1,2,3	<input type="button" value="Edit"/>
Cedric Kelly	Senior Javascript Developer	1,2,3	<input type="button" value="Edit"/>
Airi Satou	Accountant	1,2,3	<input type="button" value="Edit"/>

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Digital Polio Vaccination System

DPVS
≡
Search for...

Delete Team

Active Teams							
Select	Name	Position	Office	Age	Start date	Salary	
<input type="checkbox"/>	Tiger Nixon	System Architect	Edinburgh	61	2011/04/25	\$320,800	
<input type="checkbox"/>	Garrett Winters	Accountant	Tokyo	63	2011/07/25	\$170,750	
<input type="checkbox"/>	Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000	
<input type="checkbox"/>	Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060	
<input type="checkbox"/>	Airi Satou	Accountant	Tokyo	33	2008/11/28	\$162,700	

Showing 1 to 5 of 13 entries

Delete

Logged in as: Admin

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DPVS
≡
Search for...

Create Worker

Worker Form	
Worker CNIC	<input type="text" value="1111111111"/>
Worker Email	<input type="text" value="xyz@gmail.com"/>
Worker Phone	<input type="text" value="0300111111"/>
Worker Password	<input type="text"/>
Worker Address	<input type="text"/>
Worker Area	<input type="text"/>

Create

Logged in as: Admin

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DPVS
≡

 Search for... 🔍 👤

Edit Workers

👤 Active Workers

5
entries per page
Search...

Name	Position	Office	Start date	Salary	Edit
Tiger Nixon	System Architect	Edinburgh	2011/04/25	\$320,800	Edit
Garrett Winters	Accountant	Tokyo	2011/07/25	\$170,750	Edit
Ashton Cox	Junior Technical Author	San Francisco	2009/01/12	\$86,000	Edit
Cedric Kelly	Senior Javascript Developer	Edinburgh	2012/03/29	\$433,060	Edit
Airi Satou	Accountant	Tokyo	2008/11/28	\$162,700	Edit

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DPVS
≡

 Search for... 🔍 👤

Delete Worker

👤 Active Workers

5
entries per page
Search...

Select	Name	Position	Office	Age	Start date	Salary
<input type="checkbox"/>	Tiger Nixon	System Architect	Edinburgh	61	2011/04/25	\$320,800
<input type="checkbox"/>	Garrett Winters	Accountant	Tokyo	63	2011/07/25	\$170,750
<input type="checkbox"/>	Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000
<input type="checkbox"/>	Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060
<input type="checkbox"/>	Airi Satou	Accountant	Tokyo	33	2008/11/28	\$162,700

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Logged in as:
Admin

<Group ID>

SDP Phase I (RS)

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Logged in as:
Admin

Complaints

Active Complaints

Comp Code	ID	Name	Comments	Phone	Status	Action
C001	ID1	Name1	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	03244895247	Initiated	Delete Status
C002	ID2	Name2	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	03244895247	Initiated	Delete Status
C003	ID3	Name3	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	03244895247	Initiated	Delete Status
C004	ID4	Name 4	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	03244895247	Initiated	Delete Status
C005	ID5	Name 5	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	03244895247	Initiated	Delete Status

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Dashboard

Campaign

Team

Worker

OTHER FUNCTIONS

Complaints

Reports

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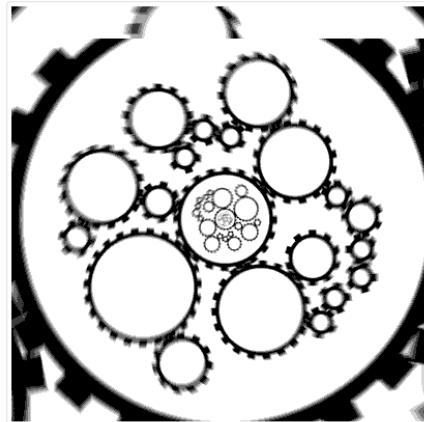
News/Updates

QR Code Generator

Logged in as:
Admin

Report Generator

Generate Report



Select Duration

Generate & Download

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Logged in as:
Admin

Maps

Polio World Map

The number of reported paralytic polio cases by world region, 2019
This includes the wild and vaccine (VAPP) type poliovirus (occurring indigenously and imported).

No data 0 5,000 10,000 40,000

Source: World Health Organization (WHO)

► 1980 CC BY 2019

CHART MAP TABLE SOURCES DOWNLOAD

Polio Heatmap Pakistan

HEATMAP WILL GO HERE

Real-Time Worker Tracker

REAL-TIME TRACKER WILL GO HERE

Polio Info

PAKISTAN POLIO UPDATE March 2021

WPVI + CPSP Case: 0

In the month of March, no new wild poliovirus (WPVI) case was reported in Pakistan. The case count of WPVI remained one, as of 31 March 2021.

There have been no confirmed cOPV2 cases in the month of March 2021. The last reported cOPV2 case was detected on 31st March 2021. The geographical distribution of cases can be observed below:

- Punjab: DG Khan (1)
- KP: Nowshera (1)
- Sindh: Shikarpur, Sukkur (1)
- Balochistan: Quetta, Dera Ismail Khan (1)

Campaigns in March 2021

The Pakistan Polio Eradication Programme launched a National Immunization Days (NIDs) campaign from 29 March to 4 April 2021 across all four provinces of Pakistan. The campaign was formally inaugurated on 26 March 2021 at the National Launching Ceremony held in Islamabad. The Special Assistant to Prime Minister on Health, Dr. Firdous Ashiq Awan, participated in the ceremony virtually, while the NECCO Coordinator, Dr. Shahzad Asif Bag, the Director General, National Institute of Child Health Organization (NICHO), Dr. Pervaiz Haider, and the Country Representative of UNICEF, Ms. Asla Girma, inaugurated the campaign, by joining the ceremony via video link. The NECCO team also reiterated their support to the campaign.

On 29 March 2021, 286,000 routine health workers administered anti-polio vaccine to 277 million children under the age of five years in Punjab, Khyber Pakhtunkhwa, Sindh, and Balochistan. In view of the challenges faced during the campaign in Balochistan was rescheduled to the second week of April 2021 due to a strike by government workers, to

vaccinate over 2.4 million children across the province. In March 2021, strict COVID-19 protective measures were implemented across the country to ensure the safety and security of the children, caregivers and communities.

Additional activities

Several Pre-Immunization Technical (PTT) meetings were held all over the provinces ahead of the campaign, to review the status of campaign preparedness. On 26 March 2021, 40 PTTs were organized across the country. The NECCO Coordinator, Dr. Shahzad Asif Bag participated in the Provincial Schools Teachers' PTT meeting in Peshawar. The meeting was chaired by the Vice Minister of Education, Mr. Aslam Khan Patahwaris (KPS), and attended by the Provincial Chief Secretary, Mr. Iqbal Ahmad, and other officials.

On this occasion, the NECCO Coordinator applied the PTTF methodology to evaluate the preparedness of the districts regarding the launch of all missed children in KPK. The NECCO team also conducted a PTT meeting with the District Health Officers (DHOs) of KPK. The DHOs appreciated the focus in some of the low performing districts, including Dera Ismail Khan, Nowshera, and Kohat. The DHOs also reassured their full support and cooperation for the implementation of the campaign.

As part of campaign preparedness for March NIDs, the Federal Training Unit organized virtual trainings for all field staff. The NECCO Coordinator, Dr. Shahzad Asif Bag cascaded the trainings for the field staff across the country. During the training, the NECCO team demonstrated how the trainees were trained with the introduction of the "Safe Method", a new technique used to improve practical skills in the field. The NECCO team also provided refresher trainings. The toolkit ensured that trainees had all required materials to deliver high-quality services.

PAKISTAN POLIO ERADICATION PROGRAMME AT A GLANCE

- 40 Million children were vaccinated in the month of March 2021.
- 285,000 health workers were involved in the campaign.
- 62% of children vaccinated are female.
- 2300 immunization sites.

40.1 MILLION CHILDREN were vaccinated during March NIDs Campaign

National Immunization Days (NIDs) Campaign

Wild Poliovirus Case (2020)

Coverage of Children Not Reached During Campaigns

Percentage of Still Missed Children (Out of Target) in Tier 1 Districts during NIDs (2019–2021)

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<Group ID>

SDP Phase I (RS)

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Team

Worker

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Maps

News/Updates

QR Code Generator

News/Updates

Recent News/Update

5	entries per page	Search...	
Date Published	Category	Description	Action
Category	Category	<p> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a. mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>	Edit Delete
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Showing 1 to 5 of 11 entries

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Admin

QR Code Generator



Select Campaign

[Generate & Download](#)

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Logged in as:
Admin

Edit Worker

Worker CNIC	1111111111
Worker Email	xyz@gmail.com
Name	Worker Phone
Tiger Nixon	0300111111
Garrett Winters	Worker Password
Ashton Cox	Worker Address
Cedric Kelly	Worker Area
Airi Satou	

Showing 1 to 5 of 5 entries

[Close](#) [Save changes](#)

Start Date	Salary	Edit
011/04/25	\$320.800	Edit
011/07/25	\$170.750	Edit
009/01/12	\$86.000	Edit
012/03/29	\$433.060	Edit
008/11/28	\$162.700	Edit

[1](#) [2](#) [3](#) [>](#)

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Logged in as:
Admin

Edit Campaign

Campaign ID	A1-2021		
Campaign Name	Name Here		
Campaign Type	Area Here		
Campaign Type	Type 1		
Start	mm/dd/yyyy	End	mm/dd/yyyy

Close Save changes

Date	End Date	Edit			
04/25	2011/04/25	Edit			
07/25	2011/07/25	Edit			
01/12	2009/01/12	Edit			
03/29	2012/03/29	Edit			
11/28	2008/11/28	Edit			
Brielle Williamson	Integration Specialist	New York	2012/12/02	2012/12/02	Edit
Herrod Chandler	Sales Assistant	San Francisco	2012/08/06	2012/08/06	Edit
Rhona Davidson	Integration Specialist	Tokyo	2010/10/14	2010/10/14	Edit
Colleen Hurst	Javascript Developer	San Francisco	2009/09/15	2009/09/15	Edit

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Logged in as:
Admin

Change Status

Comp Code	ID	Name	Comments	Phone	Status	Action
C001	ID1	Name1	Lore ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.	03244895247	Initiated	Delete Status
C002	ID2	Name2	Lore ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.	03244895247	Initiated	Delete Status
C003	ID3	Name3	Lore ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.	03244895247	Initiated	Delete Status

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Logged in as:
Admin

News/Update

Edit News/Update

Category	<input type="text" value="Category Here"/>
Description	<input type="text" value="Description Here"/>
Date Published	Category
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Save changes

DPVS

- [Dashboard](#)
- [Campaign](#)
- [Team](#)
- [Worker](#)

OTHER FUNCTIONS

- [Complaints](#)
- [Reports](#)
- [Maps](#)
- [News/Updates](#)
- [QR Code Generator](#)

Logged in as:
Admin

Edit Team

Edit Team

Team ID	<input type="text" value="A1-2021"/>	
Team Name	<input type="text" value="Name Here"/>	
Area	<input type="text" value="Area Here"/>	
Members IDs	<input type="text" value="ID1, ID2, ID3..."/>	
Airi Satou	Accountant	1,2,3

Save changes

Showing 1 to 5 of 13 entries

1 2 3 >

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6.1.2 User Panel



Polio Vaccination System

Full Name
 CNIC
 Email address
 Password

Sign up

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DPVS
≡
Search for...
👤

User Panel

Welcome To Polio Vaccination System

Active Campaigns

Name	Type	Area	Office	Start date	End Date
Tiger Force	C	Gulberg Lahore	Gulberg Lahore	2011/04/25	2011/06/25
Garrett Winters	Accountant	Tokyo	63	2011/07/25	\$170,750
Ashton Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060
Airi Satou	Accountant	Tokyo	33	2008/11/28	\$162,700

Showing 1 to 5 of 57 entries

Digital Polio Vaccination System

The screenshot shows the 'Volunteer Registration' page of the DPVS system. The left sidebar has a dark theme with white text and icons. It includes links for Dashboard, Volunteer, News/Updates, Complaints, and a 'Logged in as: USER' section. The main content area has a light background. At the top, there's a search bar and a user profile icon. Below the header, the title 'Volunteer Registration' is displayed. A sub-header 'Active Campagins' is followed by a table with 10 entries per page. The table columns are Team, Postion, Area, Start Date, End Date, and Register. Each row contains an 'Apply' button. At the bottom of the table, it says 'Showing 1 to 10 of 13 entries' and has a page navigation with buttons for <, 1, 2, >. The footer contains copyright information and a project credit.

Team	Postion	Area	Start Date	End Date	Register
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>
Rahbar	Field Officer	Model Town Lahore	2011/04/25	2011/06/25	<button>Apply</button>
End Polio	Feild Worker	Kashmir	2011/04/25	2011/06/25	<button>Apply</button>
Rotary	Videographer	DHA Multan	2011/04/25	2011/06/25	<button>Apply</button>
Rahbar	Feild Worker	Islamabad	2011/04/25	2011/06/25	<button>Apply</button>
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>
Tiger Force	Computer Operator	Gulberg Lahore	2011/04/25	2011/06/25	<button>Apply</button>

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Dashboard

Volunteer

News/Updates

OTHER FUNCTIONS

Complaints

News Updates

Recent News/Update

5 entries per page

Search...

Date Published	Category	Description
Date Published	Category	<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel sollicitudin lacus. Vivamus eros ex, fringilla ac ligula a, mollis eleifend nulla. Curabitur condimentum accumsan ex id varius. Nam eget mi a ipsum tincidunt pretium non eu nisi. Curabitur bibendum iaculis urna, a volutpat quam interdum quis. Ut maximus felis vitae ligula vehicula, et iaculis mauris consequat. Nam ut velit iaculis, eleifend augue eu, efficitur dui. Quisque maximus varius libero, et pharetra ante cursus vel. Pellentesque ut mauris est. Fusce placerat, nisi eget sollicitudin viverra, felis velit hendrerit est, vitae euismod elit justo eget nisi.</p>
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Showing 1 to 5 of 11 entries

< 1 2 3 >

Dashboard

Volunteer

News/Updates

OTHER FUNCTIONS

Complaints

Complaints & Sugesstions

✍ Complaints & Sugestions

CNIC

0000-0000000-0

Full Name

Numan

Contact Number

0000-0000000

Comments

Submit

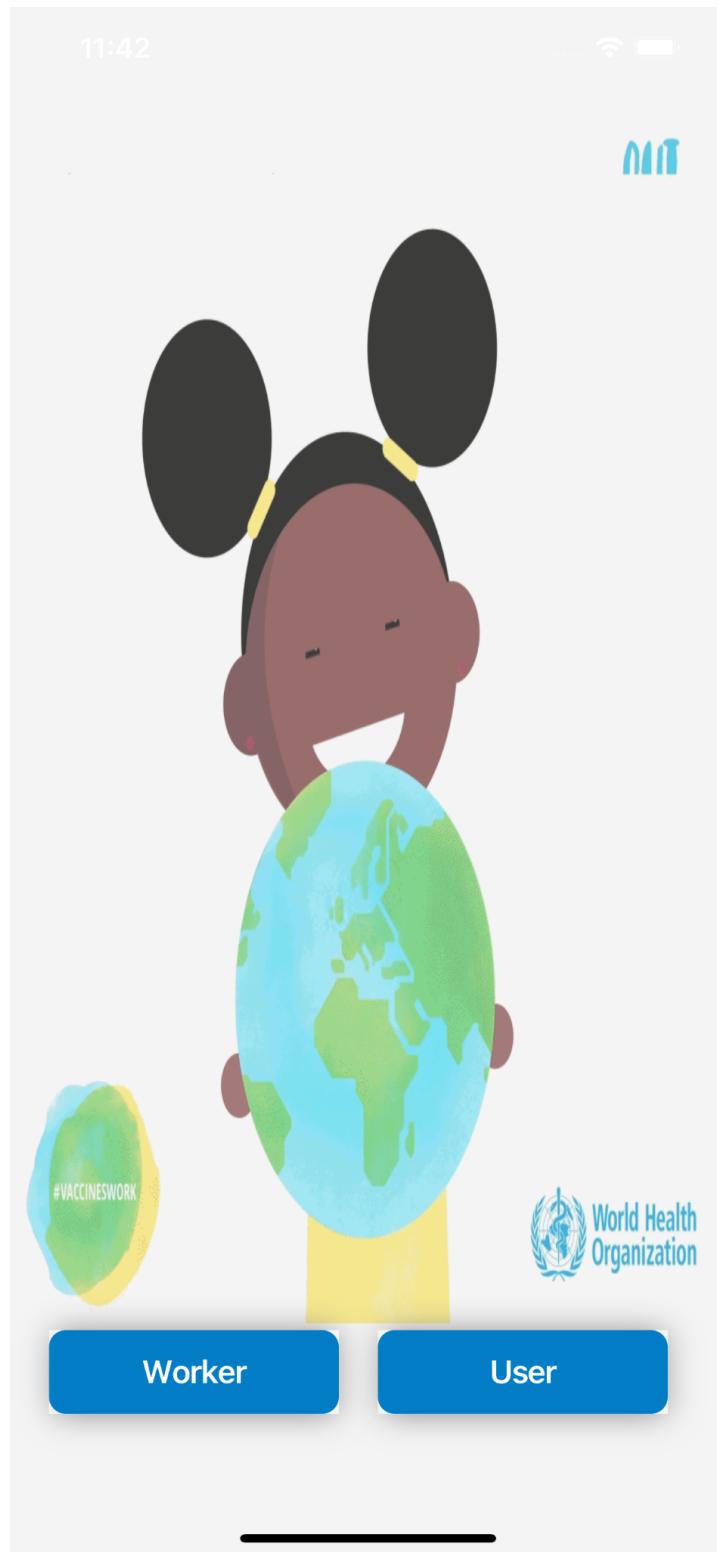
Logged in as:

User

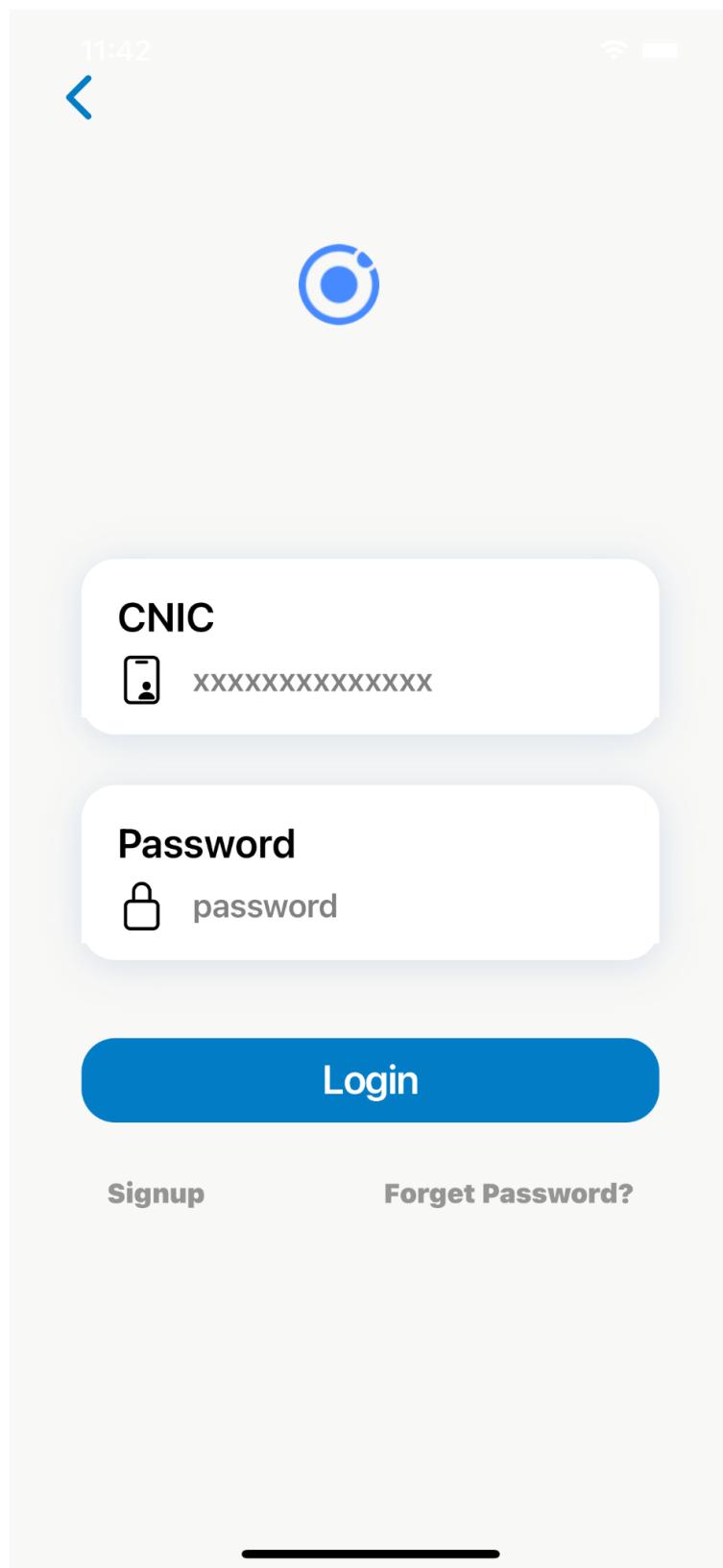
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6.2 Mobile Application



6.2.2 For Polio Workers



The image displays a mobile application interface for the Digital Polio Vaccination System. The top navigation bar is blue with the text "Digital Polio Vaccination System" on the left, the time "11:45" in the center, and connectivity/battery icons on the right. Below the navigation bar is a dark blue header with the word "Dashboard" in white.

The first section, titled "All Teams" and "View Team", features a light gray background with a group of diverse cartoon characters at the top. Below them is a large, bold title "View Team".

The second section, titled "View Vaccinated Area" and "Polio Map", features a world map with three location pins: one brown pin in North America, one green pin in Africa, and one red pin in Asia.

The third section, which is partially visible, features a stylized illustration of a modern building with a red and orange patterned facade.

11:45



Dashboard



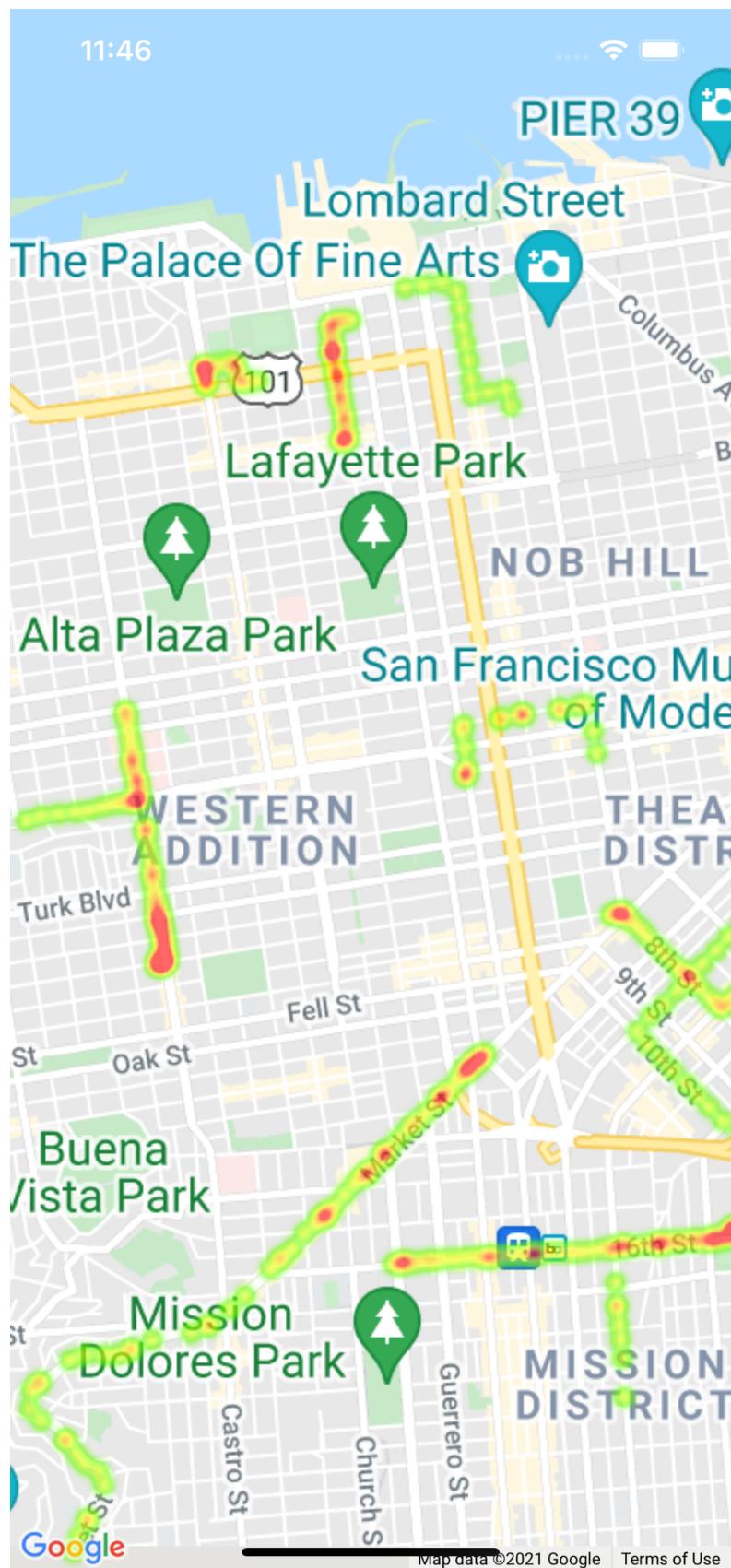
Search & Update Record

HouseHold Record

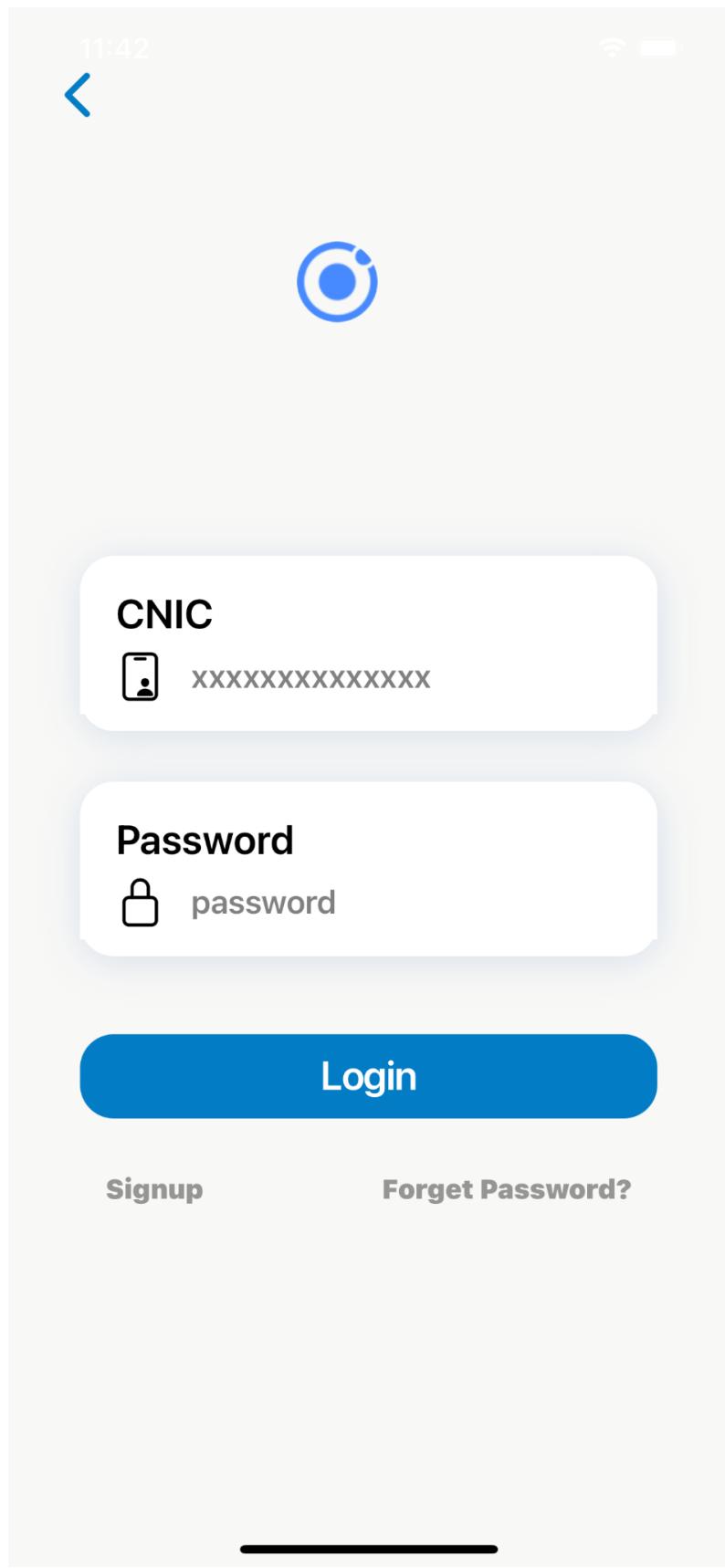


Scan and Generate Qr Codes

QR Code



6.2.3 For User(General Public)



11:43



CNIC



XXXXXXXXXXXXXX

Mobile Number



03xx-XXXXXXX

Email



username@mail.com

Password



password

Sign Up

[Login](#)

[Forgot Password?](#)

11:44



Dashboard



Become a Polio Worker

Volunteer

"Not the glittering weapon fights the fight,
but rather the hero's heart."

Be a Hero by saving someone.



Submit a complaint

Complaints & Suggestions

Tell us how we can improve this system.

VACCINATION

7. Revised Project Plan

Due to the on-going Covid-19 situation we were unable to make an evolutionary prototype, Please refer to this gantt chart.

	Week 1-2	Week 3-4	Week 5-6	Week 7-8	Week 9-10	Week 11-12	Week 13-14	Week 15-16	Week 17-18	Week 19-20	Week 21-Onwards
Semester (Proj A)											
Research											
Current System Analysis											
Requirements Gathering											
Structure of New System											
Potential Features											
Prototyping											
Semester (Proj B)											

8. References

1. https://www.researchgate.net/publication/317031252_Mobile_Technology_based_Polio-Vaccination_System_PVS_-First_Step_Towards_Polio-Free_Pakistan
2. <https://www.gatesnotes.com/health/digital-mapping-technology-helps-polio-vaccinators-zero-in>
3. <https://www.who.int/bulletin/volumes/94/2/15-163683/en/>
4. <https://www.gavi.org/vaccineswork/avadar-how-digital-health-fast-tracked-nigerias-drive-eradicate-polio>
5. <http://tryqa.com/what-is-agile-methodology-examples-when-to-use-it-advantages-and-disadvantages>
6. <https://www.inflectra.com/ideas/topic/requirements-gathering.aspx>
7. <https://www.logianalytics.com/predictive-analytics/predictive-algorithms-and-models/>
8. https://www.researchgate.net/publication/317031252_Mobile_Technology_based_Polio-Vaccination_System_PVS_-First_Step_Towards_Polio-Free_Pakistan
9. <https://thesai.org/Publications/ViewPaper?Volume=8&Issue=2&Code=IJACSA&SerialNo=53>
10. <https://www.unicef.org/innovation/stories/grantee-har-zindagi>

Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

Appendix B: IV & V Report

(Independent verification & validation)

IV & V Resource

Name _____ Signature _____

S#	Defect Description	Origin Stage	Status	Fix Time	
				Hours	Minutes
1					
2					
3					
...					

Table 3: List of non-trivial defects