

# CIS 9590 – PROJECT PHASE 2 SUMMARY

VACLIFE – BRIDGING GAPS BETWEEN COVID-19 VACCINE DEMAND AND SUPPLY



TEAM CROCAGILE

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# AGENDA

Project  
Background

Project  
Attributes

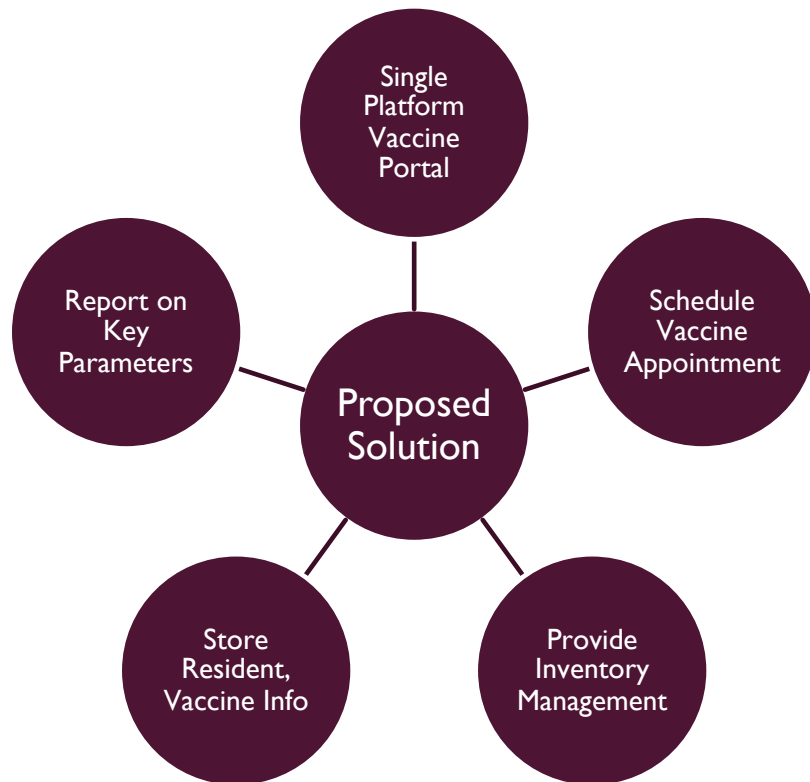
Project  
Analysis

Product  
Design

Product  
Testing

Status &  
Progress

# PROJECT BACKGROUND



- Business Strategic Objectives
  - Increase Revenue Growth & Profitability
  - Solve Trending Problems
  - Pioneer Timely On-Demand Solutions
- Business Case
  - Trending Problem: COVID-19 Vaccine Distribution
    - Gap between Demand and Supply
  - High Demand for a Single Platform Solution
  - Opportunity with Large Clients like NYC DOH
  - Prior Experience with Similar Technology

# PROJECT ATTRIBUTES AND REVISIONS

- High market demand for the system
- ROI within three quarters
- Engineering and PMO collaboration
- Design using existing hardware
- QA Team expertise for tech support

## Assumptions

No changes

- Aggressive project timeline
- Fixed project budget
- Scope locked and fixed

## Constraints

No changes

- Technology – aggressive timeline may hinder adequate testing
- Resource – need immediate and complete focus from all resources
- Business – high monetary investments
- Sourcing – supply chain disruption due to COVID-19 itself

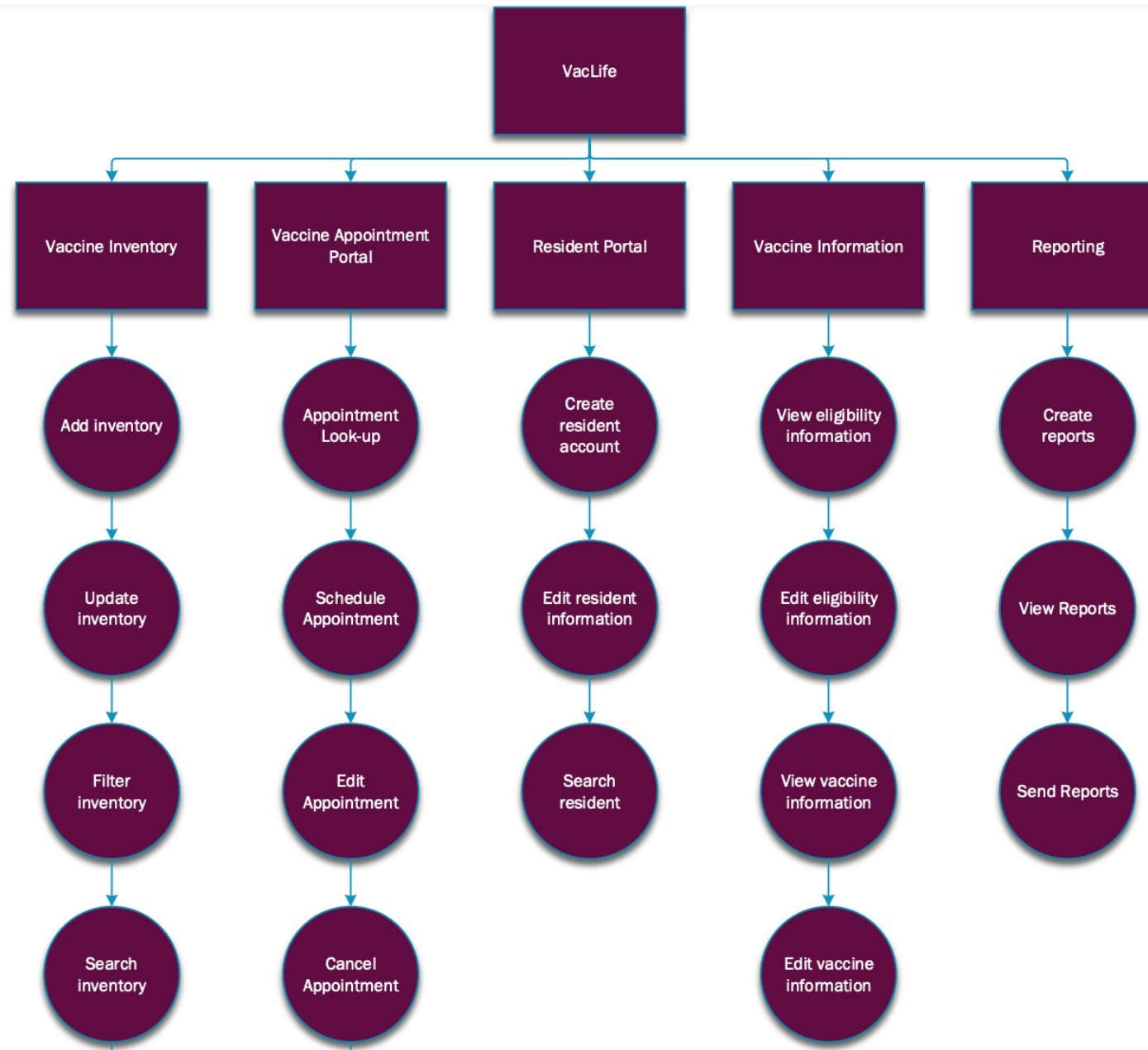
## Risks

**One Risk Added**



# PROJECT ANALYSIS





# DECOMPOSITION DIAGRAM

# BUSINESS REQUIREMENTS DOCUMENT (SUMMARY)

- In-Scope
  - Search for appointments
  - Create, view and manage appointments
  - Create, view and manage inventory
  - Create, view and share reports
- Out of Scope
  - Verify resident insurance information
  - Send push notification to users
- Functional Requirements
  - Registration
  - Appointment Search
  - Appointment Management
  - Inventory Management
  - Reporting
  - Vaccine Information
- Non-Functional Requirements
  - Response Time
  - Security

# REQUIREMENTS TRACEABILITY MATRIX (RTM)

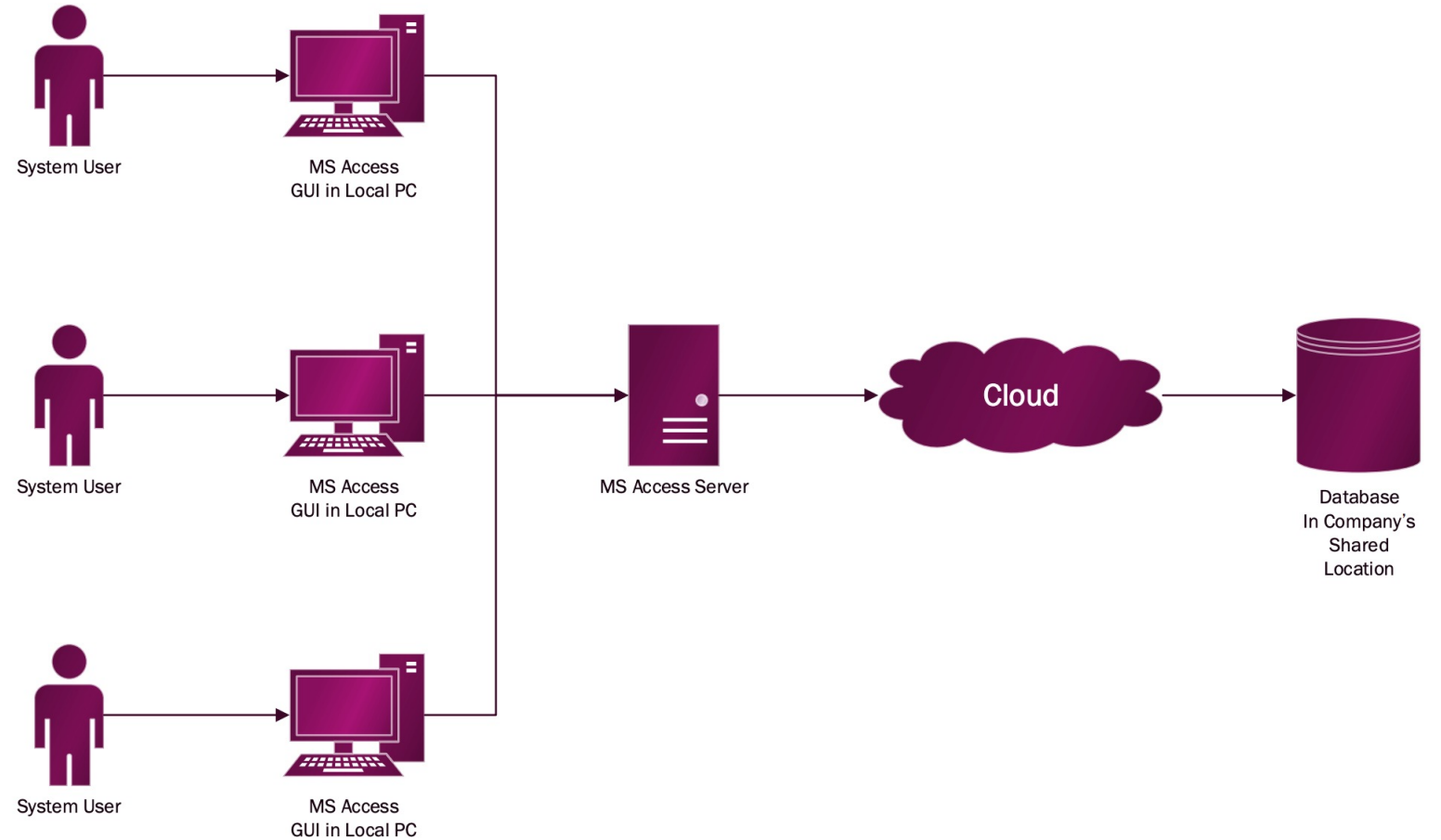
Req.ID	Requirement Name	Requirement Type	Priority	WBS ID	Test Case ID	Estimation	Status	Assigned To	Implemented? (Yes/No)
FR 8.1	Resident Registration	Functional	High	31, 36	801	2.5	Not Started	Engineer	No
FR 8.2	Appointment Lookup	Functional	High	30, 36	802	2.5	Not Started	J. Sinchi	No
FR 8.3	Appointment Scheduling	Functional	High	30, 36	803	2.5	In Progress	J. Sinchi	No
FR 8.4	Inventory Management	Functional	High	33, 36		2.5	Not Started	Y. Chen	No
FR 8.5	Reporting	Functional	High	34, 36		2.5	Not Started	J. Sinchi	No
FR 8.6	Vaccine Information	Functional	High	32, 36		2.5	Not Started	Y. Chen	No
NFR 9.1	Response Time	Non-functional	High	29, 35		3	Not Started	Engineer, Y.Chen	No
NFR 9.2	Security	Non-functional	High	37		2	Not Started	Engineer	No



# PRODUCT DESIGN



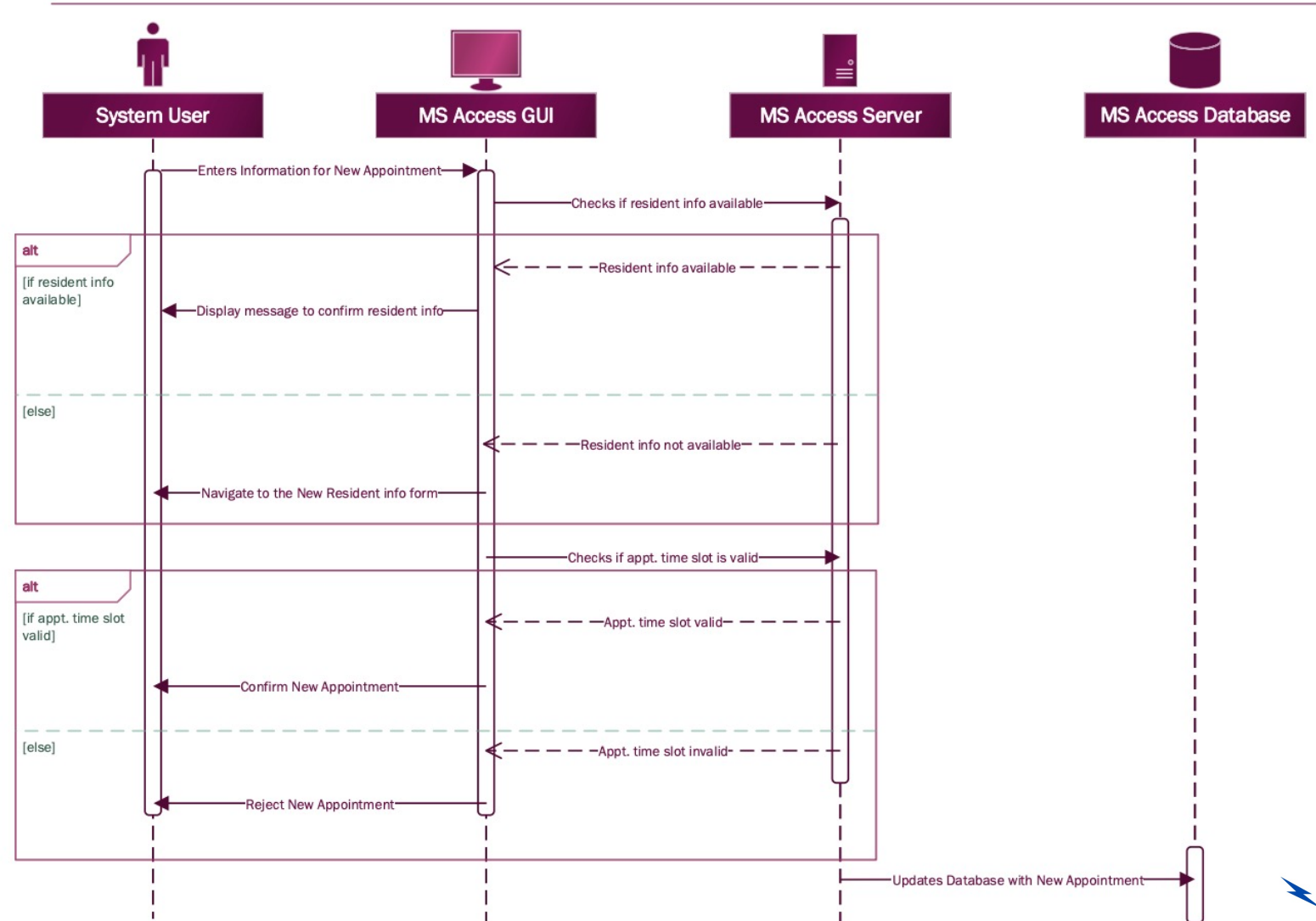
# NETWORK DIAGRAM

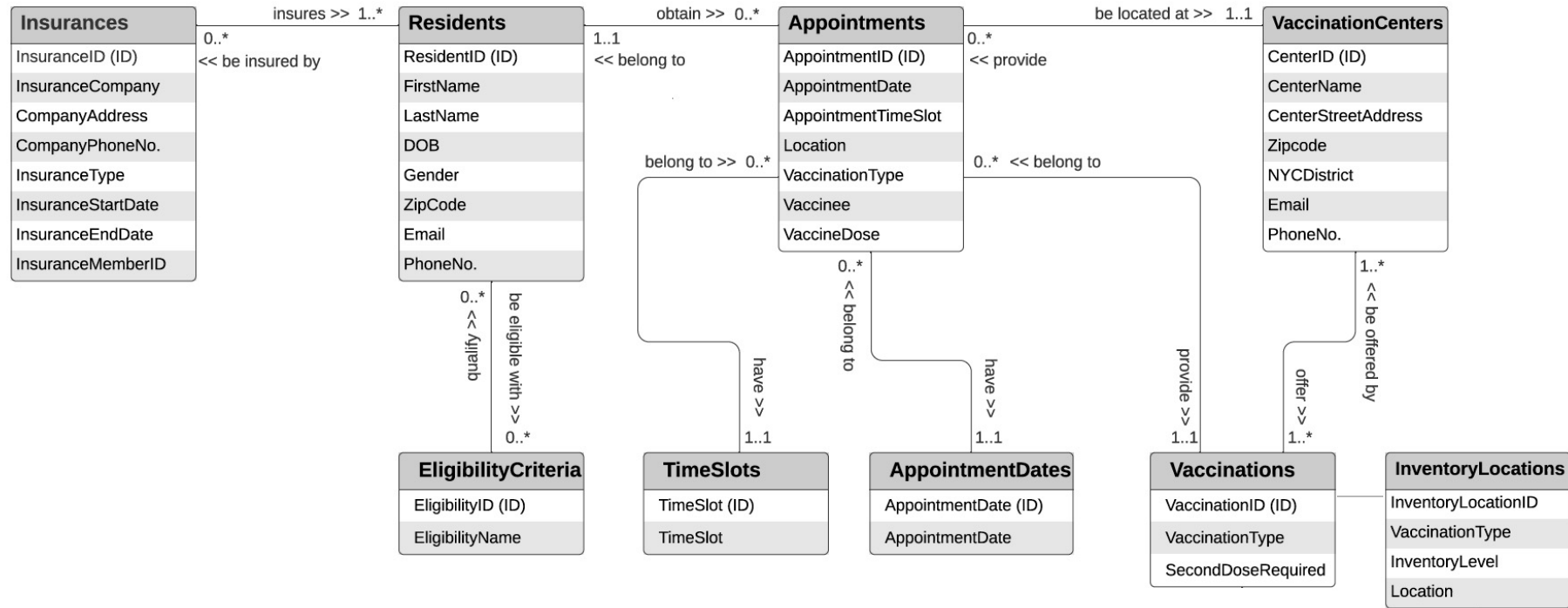


# SEQUENCE DIAGRAM(S)

## VacLife Database - Sequence Diagram for Scheduling New Appointment

Crocagile Inc.





# ERD DIAGRAM

# UI WIREFRAMES

## Schedule New Vaccine Appointment

<error text>

### Appointment Information:

Appointment ID

Select Resident

Select Center

Select Appt. Date

Select Appt. Time Slot

Select Vaccine Type

Select Vaccine Dose

# PRODUCT IMPLEMENTATION

## Schedule New Vaccine Appointment

AppointmentID

Select Resident



New Resident

Select Center



Select Appointment Date



Select Appointment Time Slot



Select Vaccine Type



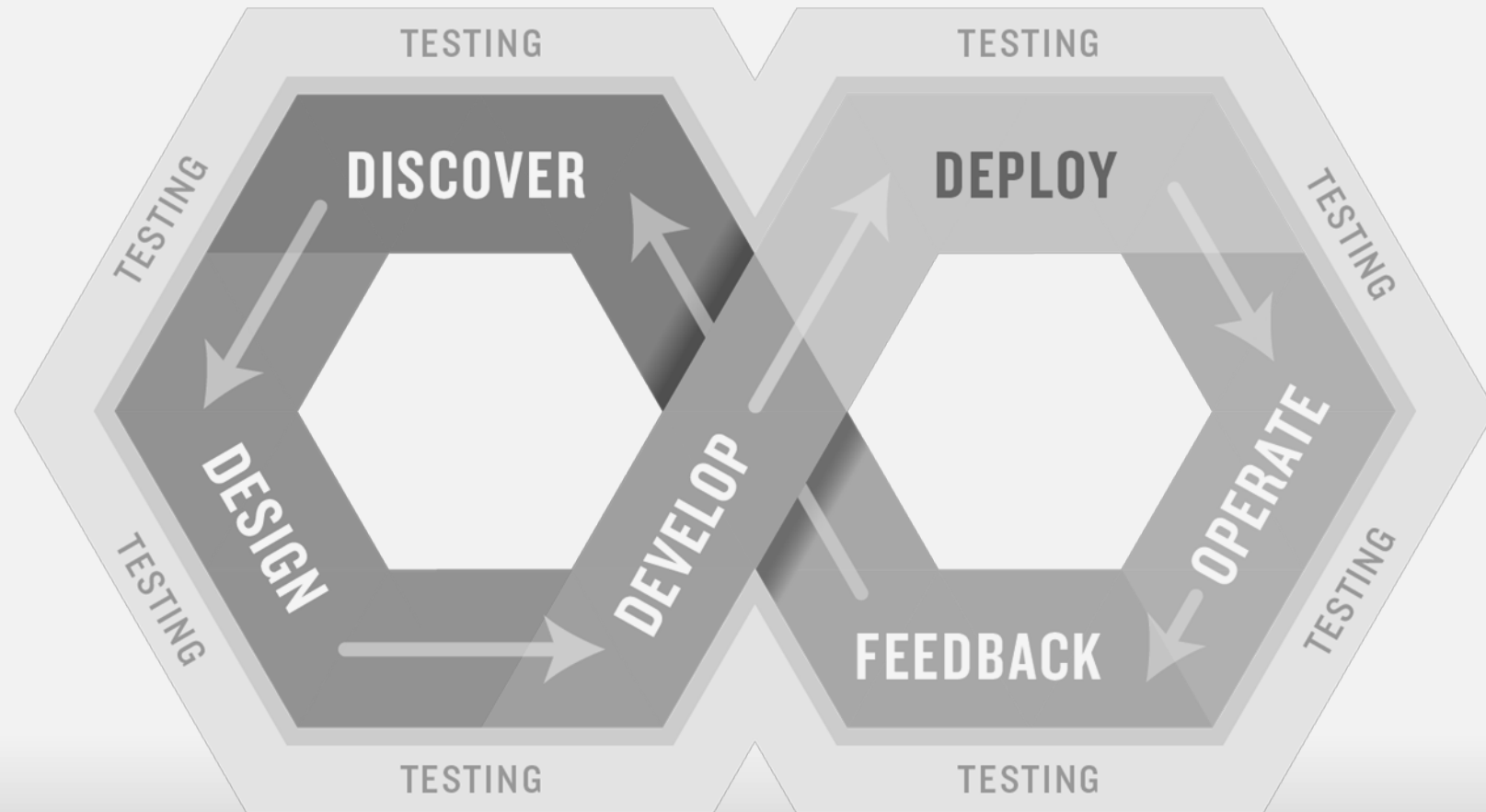
Select Vaccine Dose



Save

 Cancel

# PRODUCT TESTING



# TEST CASES

Test Case ID	Test Element	Test Case Description	Req. ID
TC801.1	Registration - Application Information & Account Information	Checking and validating the system allows the user to enter application information	FR 8.1.1
TC801.2		Checking and validating the system validating the user's application information against existing user information in the system via email address.	FR 8.1.2
TC801.3		Checking and validating the user's existence via email.	FR 8.1.3
TC801.4		Checking and validating the system creating a user account once the user is validated	FR 8.1.4
TC801.5		Checking and validating the system allowing the user to edit the following account information: username, address, email address, insurance information, and phone number.	FR 8.1.5
TC802.1	Appointment Lookup - Search Term & Vaccine Type Category	Checking and validating the system allowing users to enter search terms that contain numbers and letters.	FR 8.2.1
TC802.2		Checking and validating the system returning valid search results related to the search term	FR 8.2.2
TC802.3		Checking and validating the system allowing users to filter results by vaccine type category	FR 8.2.3
TC803.1	Appointment Scheduling - Appointment Editing	Checking and validating the system allowing users to add appointments to their account	FR 8.3.1
TC803.2		Checking and validating the system allowing users to view appointments and cancel appointments to their account.	FR 8.3.2
TC803.3		Checking and validating the system allowing users to view appointments and modify appointments to their account.	FR 8.3.3
TC803.4		Checking and validating the system suggesting appointments to the users based on existing appointments	FR 8.3.4
TC804.1	Inventory Management - Inventory	Checking and validating the system allowing users to view inventory	FR 8.4.1
TC804.2		Checking and validating the system allowing users to add inventory	FR 8.4.2
TC804.3		Checking and validating the system allowing users to update inventory	FR 8.4.3
TC804.4		Checking and validating the system allowing users to search inventory by entering a search term containing letters and numbers.	FR 8.4.4
TC804.5		Checking and validating the system allowing users to filter inventory by vaccine type and batch lot	FR 8.4.5
TC805.1	Reporting - inventory report & vaccination metric report	Checking and validating the system creating inventory reports	FR 8.5.1
TC805.2		Checking and validating the system creating vaccination metric reports	FR 8.5.2
TC805.3		Checking and validating the system allowing users to view the reports	FR 8.5.3
TC805.4		Checking and validating the system allowing users to send the reports	FR 8.5.4
TC806.1	Vaccine Information	Checking and validating the system presenting all eligibility information	FR 8.6.1
TC806.2		Checking and validating the system presenting all available vaccine information	FR 8.6.2
TC901.1	Response Time	Checking and validating the system having industry standard response time of less than 5 seconds	NFR 9.1.1
TC902.1	Security	Checking and validating the system encrypting all personal information	NFR 9.2.1



# STATUS & PROGRESS

## STATUS

### Scope

- On track – initial scope has been controlled; no changes

### Schedule

- On track – Identified processes from Phase I have remained valid

### Cost

- On track – Project has a positive cost variance to date

### Quality

- On track – Clear QA definitions maintained to get best quality product

## PROGRESS

### Did well

- Maintained strong communication

### Didn't do well

- Did not get optimum efficiency due to aggressive timeline

### Plans to improve

- Increase communication as work complexity is increasing
- Keep up the quality

# PROJECT PLAN UPDATES

		Name	Duration	Start	Finish	Predecessors
1	 	<b>Initiation</b>	<b>1 day?</b>	<b>6/16/21 8:00 AM</b>	<b>6/16/21 5:00 PM</b>	
2	 	Stakeholder Identification	1 day?	6/16/21 8:00 AM	6/16/21 5:00 PM	
3	 	Project Charter	1 day?	6/16/21 8:00 AM	6/16/21 5:00 PM	
4		<b>Planning</b>	<b>40 days?</b>	<b>6/17/21 8:00 AM</b>	<b>8/11/21 5:00 PM</b>	<b>1</b>
5		Project Management Plan	0.02 days?	6/18/21 8:00 AM	6/18/21 8:09 AM	
6	 	Team Planning Meeting	0.062 days?	6/24/21 8:00 AM	6/24/21 8:30 AM	
7		Scope Statement	13.938 days?	6/24/21 8:30 AM	7/13/21 5:00 PM	6
8		<b>Schedule and Cost Ba...</b>	<b>40 days?</b>	<b>6/17/21 8:00 AM</b>	<b>8/11/21 5:00 PM</b>	<b>7</b>
9	 	Task Resources	0.25 days?	6/25/21 8:30 AM	6/25/21 10:30 AM	
10		Task Durations	0.25 days?	6/25/21 8:30 AM	6/25/21 10:30 AM	
11		Task Dependencies	0.25 days?	6/25/21 8:30 AM	6/25/21 10:30 AM	
12		Risk Prioritization	40 days?	6/17/21 8:00 AM	8/11/21 5:00 PM	
13		<b>Executing</b>	<b>23.1 days?</b>	<b>6/29/21 8:00 AM</b>	<b>7/30/21 8:48 AM</b>	
14		<b>Design</b>	<b>11.6 days?</b>	<b>6/29/21 8:00 AM</b>	<b>7/14/21 1:48 PM</b>	
15		Design Data Architecture	11 days?	6/29/21 8:00 AM	7/13/21 5:00 PM	
16	 	Design Scheduling Portal	7.5 days?	7/2/21 12:00 PM	7/13/21 5:00 PM	21
17	 	Design Resident Portal	9.5 days?	6/30/21 12:00 PM	7/13/21 5:00 PM	21
18	 	Design Vaccine Inform...	8.5 days?	7/1/21 12:00 PM	7/13/21 5:00 PM	21
19	 	Design Vaccine Invent...	8 days?	7/2/21 8:00 AM	7/13/21 5:00 PM	21
20	 	Design Report Portal	7 days?	7/5/21 8:00 AM	7/13/21 5:00 PM	21
21		Approve Data Architec...	0.5 days?	7/14/21 8:00 AM	7/14/21 1:00 PM	15
22		Approve Scheduling Po...	0.5 days?	7/14/21 8:00 AM	7/14/21 1:00 PM	16
23		Approve Resident Port...	0.5 days?	7/14/21 8:00 AM	7/14/21 1:00 PM	17
24		Approve Vaccine Infor...	0.5 days?	7/14/21 8:00 AM	7/14/21 1:00 PM	18
25		Approve Vaccine Inve...	0.6 days?	7/14/21 8:00 AM	7/14/21 1:48 PM	19
26		Approve Report Portal...	0.6 days?	7/14/21 8:00 AM	7/14/21 1:48 PM	20
27		<b>Build</b>	<b>7.5 days?</b>	<b>7/14/21 1:48 PM</b>	<b>7/26/21 8:48 AM</b>	<b>14</b>
28		Build DDL	3 days?	7/14/21 1:48 PM	7/19/21 1:48 PM	21
29		Build Data Processes	2 days?	7/19/21 1:48 PM	7/21/21 1:48 PM	28
30		Build Scheduling Portal	1.5 days?	7/21/21 1:48 PM	7/23/21 8:48 AM	22;29
31		Build Resident Portal	1.5 days?	7/21/21 1:48 PM	7/23/21 8:48 AM	23;29
32		Build Vaccine Informati...	1.5 days?	7/21/21 1:48 PM	7/23/21 8:48 AM	24;29
33		Build Vaccine Inventor...	1.5 days?	7/21/21 1:48 PM	7/23/21 8:48 AM	25;29
34		Build Report Portal	1.5 days?	7/21/21 1:48 PM	7/23/21 8:48 AM	26;29
35		Unit Testing Data	1 day?	7/21/21 1:48 PM	7/22/21 1:48 PM	29

# THANK YOU

ANY QUESTIONS?

