

Vaccitracker

An app for parents to track and record their child's immunization

Spec Status: **Draft** / Mentor Review / Team Review / Complete

Team Name: Team 6

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Last Updated:

Summary

How can we provide an effective way for parents to track their child's immunization.

Problem Background

There are an estimated 350,000 births around the world everyday. Even though we all come from different cultures and geographies there are some common threads during the birth of a child. It is usually a period of celebration of new life, but at the same time it's the beginning of a new responsibility, especially for the parents. From day one the child needs to begin taking the required immunisations to protect them from diseases and to ensure proper growth and development. The parents need to remember when and what vaccines need to be taken and also to ensure they attend their immunization appointments on schedule. This can be challenging especially for parents with busy schedules or first time parents. From the survey results linked in the appendix below more than 60% of parents said they have missed an immunization appointment and forgetting the date was the major reason. Most parents either rely on the hospital immunization card which can easily be misplaced or damaged, or they try to keep track with a diary. When parents forget their children's immunization appointment more than 60% of them have negative feelings about themselves and feel like bad parents. Research has found that these negative feelings can have a further negative impact on the health of the child.

Goals

- *Provide parents with a means to remember their child's upcoming vaccination appointments*
- *Give parents a way to view past, pending and upcoming vaccinations*
- *Provide easy to understand descriptions of each vaccination*

- *Allow Parents to track vaccination status for multiple children from one place*
- *Allow Parents to feel in control of and informed about their child's health*
- *Allow parents to be able to plan their schedules around their child's vaccination dates*

User Stories

- *As a parent I want to know in advance if my child has an upcoming immunization appointment so that I can plan and not forget.*
- *As a parent I want to know from time to time all the immunizations that my child has taken and if there is any outstanding one so I can have informed discussions with our doctor.*
- *As a parent I would like to have a general idea of what each immunization does and possible side effects, so if they do happen I will know what to do and expect.*
- *As a parent to more than one children I want to be able to keep track of all of my children's immunization appointments without mixing them up*

Proposed Solution (in progress, to be completed with team)

A web app with real time email and calendar notifications and reminders that informs parents in advance of appointments. The parent will be able to create a family profile and also add their significant partner as well as other guardians as Co-contributors with different roles and permissions. They can add multiple children profiles including the name of the child, a profile pic, date of birth, sex etc. They will also be able to fill in general data like their country of residence and address, which would inform the vaccination schedules as well as provide them with a list of recommended health centers in the vicinity. The solution should also have a library of immunisations in easy to understand language with the basic information a parent should have.

Immunisations are region specific and due to differences between regions, the first version of the solution will be focusing on Nigeria and other African countries with similar schedules.

Scenarios

What are your key scenarios (based on your user stories)? What is the definition of done (or acceptance criterion) for each of them? Note: This should be finalized as a team.

User Story: *As a parent I want to know in advance if my child has an upcoming*

immunization appointment.

Scenario: *Receive reminder email notifications on upcoming immunization appointments*

Acceptance criteria:

- *User receives email notification to remind him/her of upcoming immunization appointments.*
- *When user opens the email, there is a link that will redirect them to the web app*
- *User can customize frequency and intervals of the reminders*

User Story: *As a parent I want to know from time to time all the immunizations that my child has taken and if there is any outstanding one.*

Scenario: *View all past, pending and future immunization appointments.*

Acceptance criteria:

- *The user sees a list of immunisation categorised as completed, pending or upcoming*
- *The user can confirm appointments has completed*
- *The user sees an red alert/icon on the app with a number indicating the number of outstanding immunisations*
- *On the home page user sees a summary of past, pending, and upcoming immunisation per child*

User Story: *As a parent I would like to have a general idea of what each immunization does and possible side effects.*

Scenario: *View summary of each immunization with basic information*

Acceptance criteria:

- *The user is able to view a list of immunisations on a timeline*
- *The user is able to click on an immunization and a description of the immunisation is displayed with what to know and expect*

User Story: *As a parent to more than one child I want to be able to keep track of all of my children's immunization appointments without mixing them up.*

Scenario: *View immunization status and details of different children*

Acceptance criteria:

- *The user can create and switch between different children's profiles*
- *Each child's profile contains related immunization details for that specific child*
- *The user is able to receive correct notifications for each child*

User Story: *As a mother/father I want I and my spouse or other children guardian (uncle,*

aunt, grandparents etc) to the account so that we are on the same page regarding the status of our child's immunisation

Scenario: Add additional guardians to the user account

Acceptance criteria:

- The user can add multiple guardians using their email addresses
- The user can assign each guardian a role and necessary permissions
- The guardian will receive an email notification with a link to activate their profile and create their passwords
- The guardians will be able to log into the app with the permissions they have been assigned

Note: Include diagrams and information flow

Measuring Success

Co.Lab Success Metrics

What would you consider success to look like by Demo Day for your team? What would be the definition of done for your product by that point? Note: This should be finalized as a team.

By Demo day below points should have been achieved

- User should be able to add multiple children profiles to account including DoB and address
- User should see list of immunisations with appropriate recommended dates according to the age of the child and regional preferences
- User should be able to tick completed against immunisations that have been taken
- User should be able to set reminders for upcoming immunization appointments and add to their calendars
- User should be able to reschedule missed appointments
- User should be able to see a list of recommended health centers in their vicinity

Product Success Metrics

Consider metrics you'd want to measure to consider the product a success. How would we know if we've solved the problem? What are the things we'd want to measure?

To measure the success of the product, we will monitor the below KPIs

- *Number of downloads*
- *Number of Children profiles created*
- *Number of appointments completed vs number of appointments missed*
- *We will also have a feedback form 2 to 3 months into the usage of the app to measure customer satisfaction*

Milestones & Timeline

What are the milestones and project stages within Co.Lab? How will you consider your roll-out plan? What about extending beyond?

Open Questions / Appendix

Self explanatory?

Definitions:

User - Any one interacting with the app

Guardian - Any one who is legally responsible for the child e.g. (uncle, aunty, grandparents, parents (legal guardians))

Roles(Relationship) - the guardians relationship to the child e.g. Mother, Father, Uncle, Grandparent....what other roles

Permissions (edit, view) - What actions the user can take on the app. Account, wide permissions are for the Primary account owners (e. Parents) Other guardians are given permission as regards confirming or updating appointments.

Immunization - Is the result of taking a vaccination

Vaccination - Is the drug taken to give the child immunisation against a disease

Useful Resources

Global immunization schedule

<https://vk.ovg.ox.ac.uk/vk/vaccination-schedules-other-countries>

Survey result

<https://freeonlinesurveys.com/r/9aCltu6I>