
Eradicate Polio

Worldwide

Why Eradicate Polio

If we fail to fully eradicate this highly contagious disease, within a decade, we could witness a resurgence of as many as 200,000 new cases annually.

**How Can we as Developers
Help.**

An application to track progress

The screenshot displays a Trello board for the 'Impress Bill & Melinda Gates Vax Track System (VTS)'. The board is organized into several columns, each representing a different stage or category of the project. The background of the board features a scenic image of a snow-capped mountain range under a clear sky.

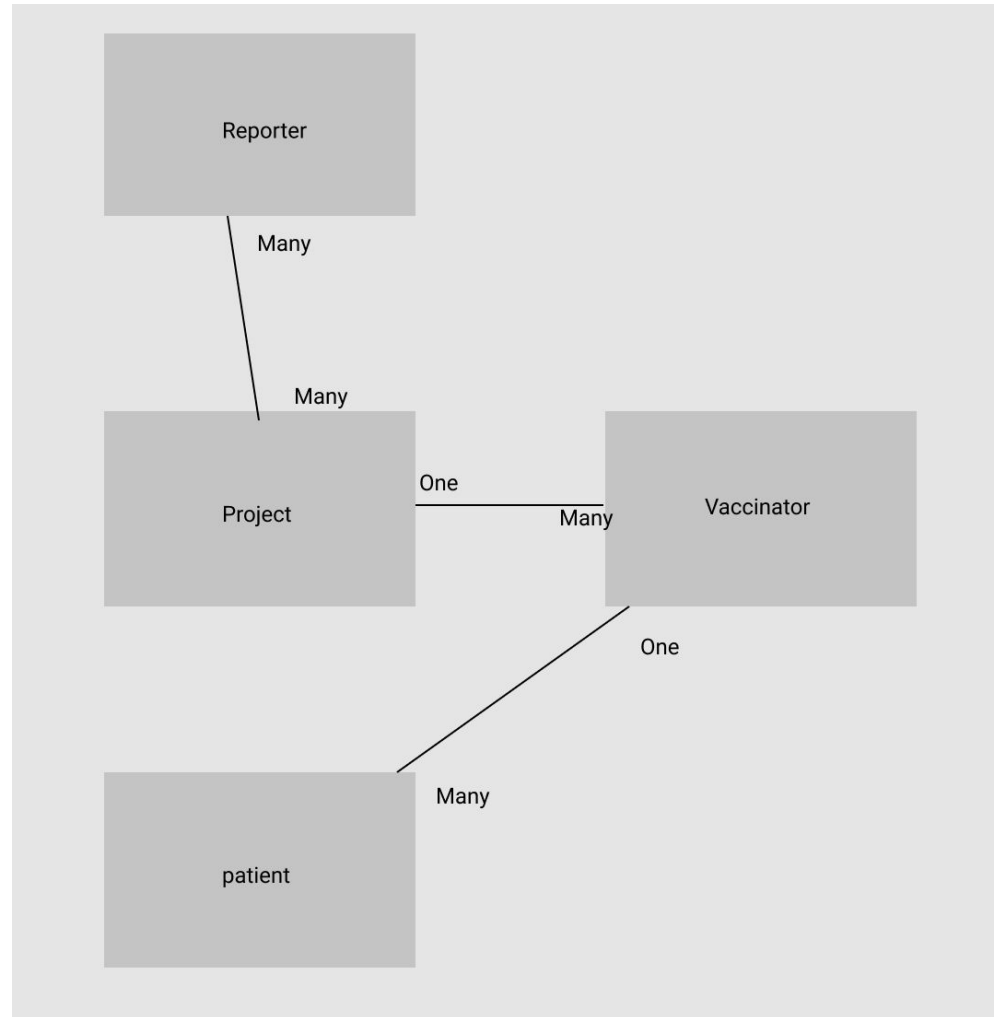
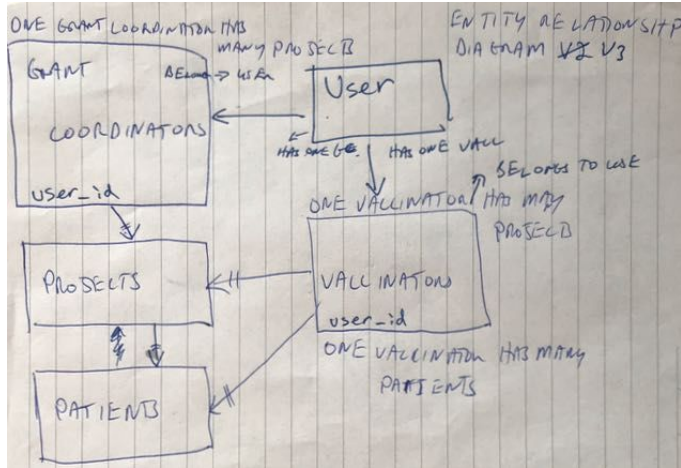
Boards: Impress Bill & Melinda Gates Vax Track System (VTS) ☆ Public Burndown Chart

Columns and Cards:

- VTS (7/18):**
 - As a Health Pro I need to have an up to date photograph of the child (that can easily be updated), so that I know I have the correct child in front of me when I do a Vax. (1/1, 1/1)
 - As a Grant Coordinator I need to get a report that shows vaccinations percent complete by Country, so that I can keep track of national progress. (2/2, 2/2)
 - As a Grant coordinator I need a breakdown for a country by Urban areas, large rural areas and villages of vaccination status in each country. (0/0, 0/0)
 - As a Grant coordination I need to be able to log in remotely to a web page with read only access so that I can get the most up to date data. (1/1, 1/1)
 - As a Grant coordinator I need to be able to have a web page that displays percent Vax coverage by Urban area, large rural area and Village by state so that I can provide reports to the Gates Foundation on progress. (1/1)
 - As a Grant coordinator I need to be able to see percent complete by days so that I know that we will meet our targets. (1/1)
 - As a Grant coordinator I need to be able to see the number of teams that have reported by day so that I know the completion data is valid. (1/1)
- Additional CFA user stories (4/7):**
 - Jamie needs me to design, build, deploy and present a Ruby on Rails application. So that he can assess skills competency. (1/1, 1/1)
 - Jamie needs us to Submit our project by sending it via email to jamie.cerehe@codereactoracademy.edu.au. (1/1)
 - Demonstrate your ability to break down the problem and design a solution. (1/1, 1/1)
- Design Documentation (5/6):**
 - One page summary of your application including problem definition, solution. (1/1, 1/1)
 - A workflow diagram of the user journey/s. (1/1)
 - Wireframes for at least 5 screens. (1/1, 1/1)
 - User stories for the whole application. (1/1, 1/1)
 - Entity Relationship Diagram (ERD). (1/1, 1/1)
 - Project plan and estimation. (1/1, 1/1)
- Tools and methodologies (4/5):**
 - Trello or similar project management tool to be used to track progress of build. (1/1, 1/1)
 - Code review. Demonstrate that you have had your code reviewed by other students and that you have provided a code review for others. (1/1)
 - Github. Demonstrate use of frequent commits, pull requests, documentation. (1/1, 1/1)
 - Use Agile development methodologies. (1/1, 1/1)
 - Provide evidence you have used code quality tools (eg. Traceroute, Bullet, Brakeman, Rails Best Practices tool, RuboCop, RubyCrit, CodeClimate). (1/1, 1/1)
- Rails application code (13/15):**
 - Use an API (eg. Omniauth, Geocoding, Maps, other...). (1/1)
 - Use appropriate gems. (1/1, 1/1)
 - Use environmental variables to protect API keys etc. (1/1)
 - Implement a payment system for your product * [N/A] (0/0)
 - Your app must send transactional emails (eg. using Mailgun). (1/1, 1/1)
 - Your app should have an internal user messaging system. (1/1, 1/1)
 - Your app will have some type of searching, sorting and or filtering capability. (1/1, 1/1)
 - Your app will have some type of file uploading capability (eg. images). (2/2, 2/2)
 - Your app will have authentication (eg. Devise, must have full functionality in place). (2/2, 2/2)
 - Your app will have authorisation (users have restrictions on what they can see and edit). (1/1, 1/1)
 - Your app will have an admin dashboard for the admin user to administrate the site. (1/1, 1/1)
 - Document your application with a README that explains how to setup, configure and use your application. (1/1)
- Deployed application (2/2):**
 - Your application is to be deployed to Heroku. (1/1, 1/1)
 - Your deployed application must have data present to show functionality. (1/1, 1/1)
- Presentation:**
 - You are to deliver a 7 minute presentation to the class. (1/1)
 - The presentation should include: (1/1)
 - A Walk-through of your design decisions and documents (1/1)
 - A review of your build process - challenges, favourite parts (1/1)
 - A walk-through of your live app pointing out its features (1/1)
 - Answer any questions from students or teachers. (1/1)
 - Use this presentation as an opportunity to pitch your ideas to 'investors'. (1/1)

How was this Designed

An Entity Relationship Diagram was created, along with the Tello Board for all the user stories on the previous page and wireframes on the next.



Wireframes etc.

Yes Balsamic looks better.

HOME	ABOUT	ORDER NEW GRANT REPORT BY LINE ORDER NEW REPORT	NAV BAR	LOGIN	GRANT COORDINATION	VACCINATION
------	-------	---	---------	-------	-----------------------	-------------

NAV BAR

VACCINATION INFORMATION COLLECTION

PATIENT RECORD ENTRY

CAPTURE PHOTO
OF PATIENT

PATIENT NAME

DATE OF BIRTH

GENDER

ADD1

ADD2

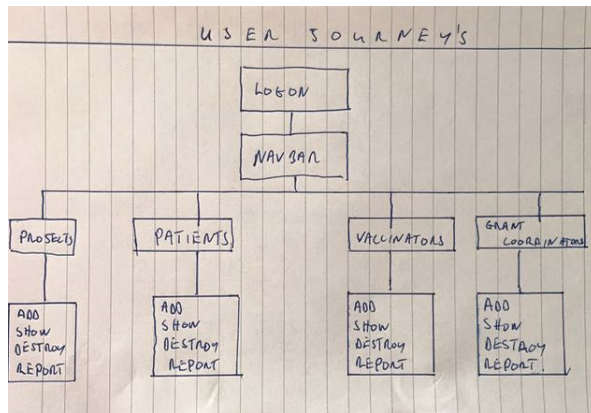
STATE

POLIO VACCINATION

ASCTH NUMBER (PULL DOWN FROM SITE)

ADMINISTERED BY

DATE + TIME



NAV BAR

VACCINATION OPTIMIS COLLECTION

VACCINATION TITLE

VACCINATION 1st NAME

VACCINATION SURNAME

ID NO

PHOTO

SUB TITLE

START DATE

CONTRACTOR COMPANY NAME

EMAIL ID

NAV BAR

PROJECT SITE DETAILS

COUNTRY

STATE

PROJECT ADD1

ADD2

PROJECT ID (NEW ENTRY)

TARGET VACCINATION
NUMBER

Rails Setup

Rsepc

```
group :development, :test do
  # testing
  gem 'rspec-rails', '~> 3.5'
  gem 'rails-controller-testing'
  gem 'pry'
end
```

```
cd rails/CFA-Gates-Vaccination
```

```
rails new . --database=postgresql
```

```
gem 'bootstrap-sass', '~> 3.3.6'
gem 'carrierwave', '~> 1.0'
gem 'pundit'
gem 'simple_form'
gem 'devise'
gem 'country_select'
gem 'simple_form_fancy_uploads'
gem 'omniauth'
#gem "brakeman", :require => false
gem 'cloudinary'
gem 'rubocop', require: false
gem 'rails_12factor', group: :production
# gem 'mailboxer' does not work as advertised
```

```
bundle
```

```
rake db:create
```

```
rake db:migrate
```

```
rails g simple_form:install --bootstrap *****rails generate simple_form:install*****
```

```
rake db:migrate
```

```
rails g scaffold Grcrd g_name1:string g_name2:string g_idnum:integer g_photo:json g_title:string g_email:string
```

```
rake db:migrate
```

```
rails g scaffold Vaccinator vac_name1:string vac_name2:string vac_idnum:integer vac_photo:json vac_title:string vendor_name:string vac_email:string
```

```
rake db:migrate
```

```
rails g scaffold Patient first_name:string surname:string dob:date photo:json gender:boolean address1:string address2:string post_code:integer state:string
country:string vaccinator:references
```

```
rake db:migrate
```

```
rails g scaffold Project pcountry:string pstate:string paddress1:string paddress2:string project:integer noofvac:integer grcrd:references
```

```
rake db:migrate
```

RuboCop Output

Assessment is that no action is required at present.

The majority of files below are generated by Rails or associated GEMs

Fri 21 Apr 2017 14:40

damg99@Dans-MacBook-Pro ~/rails/CFA-Gates-VaccinationV3 (master) \$ rubocop

Inspecting 87 files

.CC..CCCCCCCCCCCC.CCCCCCCCCCCC.CC.CC.CC.C....C.C..CCC.CC.C...CCCCC.CCCCCCCCCCCCCC
CCCC.....C

Offenses:

Gemfile:4:69: C: Prefer single-quoted strings when you don't need string interpolation or special symbols.

repo_name = "#{repo_name}/#{repo_name}" unless repo_name.include?("/")

^^^

Gemfile:12:1: C: Gems should be sorted in an alphabetical order within their section of the Gemfile. Gem
devise should appear before simple_form.

gem 'devise'

^^^^^^^^^^^^^^

Gemfile:13:1: C: Gems should be sorted in an alphabetical order within their section of the Gemfile. Gem
country_select should appear before devise.

gem 'country_select'

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Gemfile:15:1: C: Missing space after #.

#gem "brakeman", :require => false

^^

Gemfile:49:81: C: Line is too long. [83/80]

Call 'byebug' anywhere in the code to stop execution and get a debugger console

^^^

90%

The first 90 percent of the code accounts for the first 90 percent of the development time.
The remaining 10 percent of the code accounts for the other 90 percent of the development time.

— Tom Cargill, Bell Labs

What does the app look like!

Let me show you



Global Polio Vaccination

<https://evening-retreat-46821.herokuapp.com/>



Global Polio Vaccination

Home

Projects

Patients

Vaccinators

Grant Coordinators

User Sign In

User Edit

Dropdown ▾

Signed in successfully.

Projects

Project Country	Project State	Project 1st Address	Project 2nd Address	Project ID	Number of Vac's	Grant Co-rd			
AU	NSW	Kelly st	Ultimo	10000	1000	dan.martin99@me.com	Show	Edit	Destroy

New Project

**“OUR GOAL: to eradicate polio
worldwide.”**

From : Bill and Melinda Gates

—

I have learnt a great
deal while
developing this
application, thanks
to all of you!!

Thanks!

