VacTrack CMS

Technical Description Document

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Revision History

#	Revision	Author	Description
1	09/13/21	Keya Gandhi	Initial draft
2	09/27/21	Ravi Kumar	Updated technologies

Overview

The objective of this project to ease out parenting by helping with keeping track of vaccination schedules, reports at one place. It provides a platform where parents can have access to vaccination reports of their children and upcoming vaccination schedules at one place.

Project Description

Following features are provided by VacTrack :

1. Add Multiple children.
2. Users (Parents) can see due/completed vaccines for the selected child.
3. User (Parent) can update the status for particular vaccine as completed.
4. Users (Parents) will get the reminder on mail or sms if the vaccination date is near.

Project Details

Following are some general and technical details of the project:

<u>GENERAL</u>

Project Start Date : 10/09/2021

No. of Resources : 3

Project Type: Web Application

TECHNICAL

Technology	: ReactJS, Python (Django framework**)**, PostgreSQL,GraphQL
Platform	: NA
IDE	: Visual Studio Code
Development Env.	: Python/pipenv
Hosting Env	:
Browser Support	: All

REPOSITORY

Type	: Gitlab
URL	: https://gitlab.mindfire.co.in/pardeep/vactrack/tree/master
Credentials	:

Tools and Technology

1. **React JS (For Frontend)** - React is an open-source, front end, JavaScript library for building user interfaces or UI components.

2. **Django (For Backend)** - Django is a Python-based free and open-source web framework that follows the model-template-views architectural pattern.

3. **Django Rest Framework** - Django REST framework is a powerful and flexible toolkit for building Web APIs. It will help in connecting our frontend with the backend.

4. **PostgreSQL RDBMS(For database)** - PostgreSQL, also known as Postgres, is a free and open-source relational database management system emphasizing extensibility and SQL compliance.

5. **GraphQL(Query language for API)** - GraphQL is a query language for your API, and a server-side runtime for executing queries using a type system you define for your data. GraphQL isn't tied to any specific database or storage engine and is instead backed by your existing code and data

Other tools:

1. **Postman** - Postman is a popular API client that makes it easy for developers to create, share, test and document APIs. This is done by allowing users to create and save simple and complex HTTP/s requests, as well as read their responses.
2. **Newman(For api testing)** - Newman is Postman's open-source tool to run and test collections created in postman directly from the command line.
3. **React Bootstrap(for styling in frontend)** - React-Bootstrap replaces the Bootstrap JavaScript. Each component has been built from scratch as a true React component, without unneeded dependencies like jQuery. As one of the oldest React libraries, React-Bootstrap has evolved and grown alongside React, making it an excellent choice as your UI foundation.
4. **Pylint(For python code formatting)** - Pylint is a source-code, bug and quality checker for the Python programming language. It follows the style recommended by PEP 8, the Python style guide.

Architecture Diagram