PharmaConnect

An initiative proposed under Smart India Hackathon 2018

Problem Category: **Government of Delhi**

Problem Statement:
Nationwide integration of all pharmaceutical groups (Education, Industries and all stakeholders) to share policies, updates, summits, seminars/expo

Problem Code: **#GDL9**

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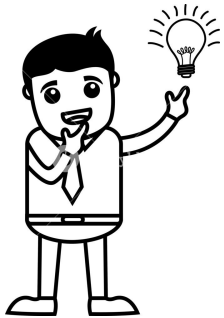
Abstract and Idea

ABSTRACT

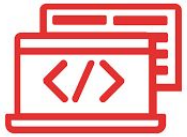
Till date, there is no single window from where the students or targeted participants get to know the latest developments in the pharmaceutical sector in the country. During policy making process too, the sample size may not be large enough to get to know the success of the policy, as sufficient participants do not participate just because of the communication gap.



IDEA / SOLUTION

If there exists an app which links all the pharmaceutical groups and the interested people together under one umbrella for a better communication, there will be more participation overall. The young students will also develop interest in government's policy making decisions if everything is accessible to them easily on their smartphones and they see that they can give some contribution too.

So, with regards to this problem, we propose to develop an Android app, which will, in fact, integrate young students, pharmaceutical industrialists, stakeholders and other interested people nationwide, to share policies, updates, information about summits, seminars, expos etc.



Technology Stack and Approach

TECHNOLOGY STACK

As the platform we are talking about here is Android, we plan to implement the app using **Java** in **Android Studio IDE**. We may also use **React Native** for improvising design.

For backend, we've planned to use **MYSQL** as the database model and interfacing this model with the app using a dedicated API. This API will be in-house and will be powered by the traditional web technology stack i.e. **PHP.**

We will primarily be using either **XML or JSON**, if there is any data parsing required between the app and the server. All the HTTP communication will happen using the **REST technology**.

OUR APPROACH

The basic idea is to have a central server that manages the complete database as well as other admin features. The app will interact with this server via an API. We will be working on the Android counterpart and the API counterpart simultaneously, as both of them are dependent on each other.

HOW WE PLAN TO ACHIEVE THIS ?

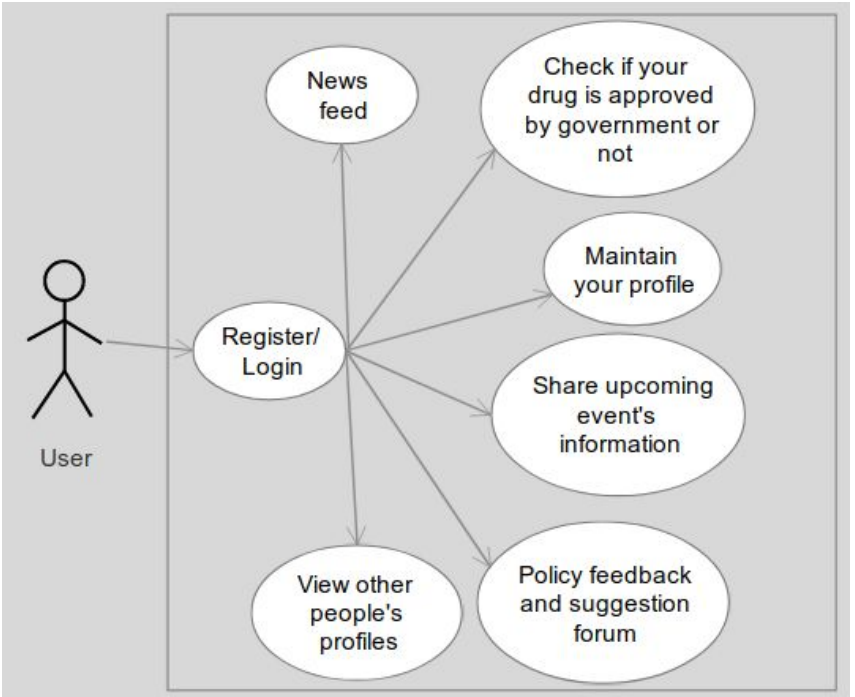
As mentioned everywhere, this hackathon will span for about 36 hours. To analyze the **practicability** of completing the project in the stipulated time frame, we have developed a tentative project plan, which can be viewed here - **https://goo.gl/DMYZzr**

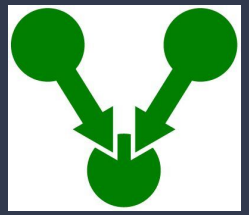
Use Cases

There is a small video which we have made to better explain the use cases: https://youtu.be/vyp5zJ-VRwY.

These are the few use cases:

1. Login using social handles like Google, Facebook, etc.
2. The app will provides information on latest policies and updates in pharma industry.
3. Users can check if a medicine is government approved or not.
4. Users can maintain their profile (Student Profile, Doctor Profile, Researcher Profile etc).
5. Users can share information of upcoming events, summits and expos concerning the pharma industry.
6. A policy feedback and suggestions forum, where the policy makers can put up surveys, which will be filled by the users.
7. Users can view other people's profiles to get in touch with them in order to expand their network.





Dependencies and References

DEPENDENCIES

USER SIDE

1. An Android smartphone with approximately 10MB of free system space to install the app. A minimum of 1GB RAM is required for this app.
2. Internet Connectivity - Required (Wifi / 3G / 4G / 5G / any other advanced technology)

MAINTAINER SIDE

1. A server with approximately 500MB to 1GB of disk space, as required. (varies in accordance with the amount of data required to be stored on this server)
2. Apache Web Server that can host a PHP REST API.
3. MYSQL backend, preferably MariaDB. For easy management of this database, phpmyadmin is recommended.
4. A Google Play Developer Account to host and distribute the app through Google Play.

REFERENCES

1. Department of Pharmaceuticals, Government of India- http://pharmaceuticals.gov.in/
2. Android Developer Guide- https://developer.android.com/index.html
3. Central Drugs Standard Control Organization- http://cdsco.nic.in/forms/list.aspx?lid=2056&Id=11

Detailed Proposal

Thank you for giving us the opportunity to present our proposal. We have also prepared a detailed version of this proposal and would like you to visit the link below for the same.

https://goo.gl/oWpJ9G

For an INTERACTIVE VERSION of this proposal, please do visit the below link.

https://goo.gl/mXecED

Here's the link to the youtube video, for your reference.