# **Final Year Project**

**Subject: PROJECT IDEA FOR FYP**

# **Introduction:**

A three-person team aspiring to develop a “**Smartphone/Web Application-Based Vaccination Tracking System**” for our Final Year project (FYP).

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# **General Idea:**

The concept is to provide a highly interactive and user-friendly platform for vaccination tracking. By using this application, the government will be able to track people who have newborns pending for vaccination. This will majorly target the Polio issue in Pakistan. Many People don’t get their vaccination done properly because of ignorance. If we have the records of babies being born of every hospital, we can trace the baby with birth certificate. And verify if they done their vaccination or not.

# **Implications:**

The idea is to build such a system that focuses on overcoming painful procedure of keeping records of newborns. Right now all of the records are maintained manually. And there is no check on the records. We can make a system where whenever a new child is born will be given a birth certificate immediately. With that birth certificate, we will allot them a list of vaccination to be done. After getting their vaccination done, the vaccination team will update the record in system telling us that they have their child vaccinated.

And after we have records of babies born, we can use Machine Learning to predict the demand of vaccines and medicines in the area.

# **Tools and Technologies:**

For the intention cited-supra, the design we have in our mind, is of a 4-tier architecture (Mobile and Web Application for end users, Web Portal for admin control, a Database, server-side backend handler) covering a variety of aspects, in regard with the technical implementation. Some of the already considered technologies and domains to be included are as follow:

* Deep Learning / Tensorflow / Keras for prediction.
* React Native for Mobile Application.
* Web Technologies (React/Vue/Node/Express/HTML/CSS/Bootstrap/etc.) for Web Application
* Database (Mongo/Firebase)
* Python
* Computer Networking

# **Conclusion:**

The above-mentioned points summarize the general aspects of our FYP, and we are optimistic that under your capable Supervision we will be extremely productive.

P.S: We are willing to share with you the complete core concept and work flow of this idea in our coming meetup, we really want you to accept our humble request to grant us your keen vision and supervise us for our final year project in the session of (SP21-FA21). We are eager to get polished under the shadow of your wing. Waiting for your positive response.

Thanks.

Yours Obediently. Dated: October 25, 2020