



## CodeQuest Project Offering List

### Mobile Application Development :

1. **Student Communication Portal :-** Build a Student Communication Portal that can allow students to communicate with each other and share files and more.
2. **A Health App to monitor user's health:-** Building a Health App that can determine your sleep quality, your walking, cycling etc. using various types of sensors.
3. **Mobile App for Booking a Vehicle:-** Build an app that can allow users to book a vehicle using databases, location services etc.
4. **To-Do List App:-** Build a To-Do List app that can allow users to add to-dos dynamically, edit and delete using databases.
5. **Instagram Clone:-** Developing an application similar to Instagram where people can share their Pics and Videos and can also update their Status.
6. **Live Cricket Info App :-** Building an application similar to cricInfo where the audience can get a Live cricket score.

## Python Programming :

- 1. Random Password Generator:** - Creating a strong password and remembering it is a tedious task. You can build a program that intakes some words from the user and then generates a random password using those words. The user can remember the password with the help of the words he gave as an input.
- 2. Tic-Tac-Toe:-** Usually, two players can play Tic-Tac-Toe at a time. The players create a 3×3 square grid. While the first player puts "X" in any one of the squares, and the second player will put an "O" in any square. This process will continue until all the squares are filled with each player putting X and O alternatively. The player who succeeds in creating a horizontal, vertical, or diagonal with three consecutive X or O on the grid wins.
- 3. Music Player:-** The app will have a neat interface that will allow users to browse through tracks, increase/decrease volume, display the name of the song, artist, album. This project will mainly involve the basics of Python programming, database management, algorithm construction, and data processing.
- 4. Instagram Photo Downloader:-** This would be an app that automatically downloads all the Instagram images of your friends.
- 5. Web Application :** - We can also create some kind of web application.

## Web App Development:

We can create web applications using any of the following technology.

- Python (Django)
- PHP
- Angular , Node js, and few Trending Platform

List Of the Projects

1. College Management System
2. Social Networking Platform
3. Online Attendance System .
4. Bus Booking System .
5. Cab Booking Website.
6. Food Ordering website.

## Machine Learning :

1. **Image Recognition:-** Develop a software to identify objects, people, places, and actions in images.
2. **Spam Detection:-** Develop a Spam Filter from Scratch Using Machine Learning.
3. **Medical Diagnosis:-** Develop a medical test system to detect infections, conditions and diseases.
4. **Social Media Sentiment Analysis:-** Develop a social media analytics tool that involves checking how many negative and positive keywords are present in a chunk of conversation.

## Artificial Intelligence :

1. **AI Chat Bot:-** Build a chatbot that can mimic a real human and can talk to anyone through chat.
2. **Speech-Based IVRS:-** Building a voice-based food ordering application that is trained to handle voice recognition.
3. **Face Detection:-** Make your machine learn to detect the Human faces and other objects.
4. **Social Distancing Detection :-** Develop your machine in a way that detects whether people are maintaining social Distancing or not at any crowded place.

## Internet of Things:

1. **Smart Street Light:-** The use of smart street light projects instead of using manual light can help in saving a considerable amount of electrical energy. This is done by sensing and approaching vehicles using an IR transmitter and IR receiver couple.
2. **Smart Dustbin with Notifications:-** system consists of a sensor in order to detect human clap signal and on a clap of foot tap it opens automatically without anyone needing to press its lever. The dustbin opens automatically when it receives the signal and closes its hatch.

3. **Live Weather Reporting System:-** It allows the people to directly check the weather stats online without the need of a weather forecasting agency. System uses temperature, humidity as well as rain sensor to monitor weather and provide live reporting of the weather statistics.
4. **IoT Home Automation :-** Control your home appliances with your phone over internet. Lights, Fans, 240V Plug and much more using raspberry pi.
5. **IoT Based Alarm Clock :-** It can use more than a traditional alarm clock does to wake up or remind of something important to the user. For instance, it can turn on the smart lights or switch off the fan, etc. The requirements of this project include RTC chip, TFT screen, Wifi Module, etc.

