**PROPOSAL 1.**

**TOLL POLE**

***Group Members: -***

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1. **Introduction: -**

Roads play an important role when it comes to Vehicles and Best Roads have Tolls to maintain such roads, so in order to drop the Toll Congestions and traffic and to reduce the man labor we introduce Toll Pole. This android application will use the QR codes for making payment. There are two users of the system, one is the invigilator responsible to verify the paid amount to the corresponding vehicle and second is the user with the vehicle. While login if the user forgets the password, he/she will be asked few security questions. The system provides an E-wallet, user will be able to check the balance, add to it using credit/debit card, and pay by the wallet only.

1. **Hardware Requirements: -**
2. *Mobile Phone*

The mobile phone should be an Android powered phone.

The mobile phone should have at least Android API 19 (Kitkat).

The mobile phone should have an Internet Connection.

*b) For Development*

For Windows,

Microsoft Windows 7/8/10 (32- or 64-bit).

3GB RAM minimum.

2GB of available disk space minimum.

i3 Processor.

1. **Software Requirements: -**
2. *Android Studio:*

It will be used to design the layout of all the user-interface screen. Java will be used to develop the application for passing different values between different activities and intents.

1. *Firebase:*

We will user Firebase Authentication, Database, Storage and Notification.

1. *Git:*

Git will be used for managing the project, or a set of files, as they change over time. Stores this information in a data structure called a repository.

1. *Python:*

Python is a powerful programming language which will be used for backend scripting.

1. **Applications: -**

Different toll points will use this web application to collect toll in an efficient way and it will also help in reducing traffic congestions. The man labor required per toll point will also be reduced.

**PROPOSAL 2.**

**STUDIFY**

***Group Members: -***

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1. **Introduction: -**

A student bot project is a web application which provides answers to query of the student. Student just have to query through the bot which is used for chatting. There are two users for the system, one is the admin which can add and remove the questions, edit the answer to the questions and the second is the student which can ask the queries by text or voice. The students do not have to personally go to the college for enquiry. The System analyzes the question and then answers to the user in both text and voice. Both the users have to login to the system using a common login page, but the post destination page will differ according to the user.

1. **Hardware Requirements: -**

The user should own a device which has a browser and internet connectivity.

1. *For Development,*

For Windows,

Microsoft Windows 7/8/10 (32- or 64-bit).

3GB RAM minimum.

2GB of available disk space minimum.

i3 Processor.

1. **Software Requirements: -**
2. *Firebase:*

We will user Firebase Authentication, Database, and Storage.

1. *Git:*

Git will be used for managing the project, or a set of files, as they change over time. Stores this information in a data structure called a repository.

1. *Python:*

Python is a powerful programming language which will be used for backend scripting.

1. *Web Browser:*

The device should have a web browser which supports JavaScript.

1. **Application**: -

STUDIFY will be used to provide information to students about college activities which will reduce student’s efforts to go to the notice board or office for enquiry.

**PROPOSAL 3.**

**ANTORE**

***Group Members: -***

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1. **Introduction: -**

ANTORE is an Android based application. It provides the user with information about various colleges with its ratings. The user will be asked to set a location or enter the name of college he/she intends to know about.  If the user provides the location, he/she will be provided with different colleges on a map. The user can bookmark a college, get directions to the college and make a call. He can also provide review by giving a like/dislike to a college. The user can apply filters as per the colleges they need such as Junior college, Diploma colleges, Degree colleges, Medical colleges.

1. **Hardware Requirements: -**
2. *Mobile Phone*

The mobile phone should be an Android powered phone.

The mobile phone should have at least Android API 24 (Lollipop).

The mobile phone should have an Internet Connection.

1. *For Development*

For Windows,

Microsoft Windows 7/8/10 (32- or 64-bit).

3GB RAM minimum.

2GB of available disk space minimum.

i3 Processor.

1. **Software Requirements: -**
2. *Android Studio:*

It will be used to design the layout of all the user-interface screen. Java will be used to develop the application for passing different values between different activities and intents.

1. *XAMPP:*

XAMPP is the most popular PHP development environment.

1. *Firebase:*

We will use Firebase Authentication, Database, Storage and Notification.

*d) Postman:*

Postman is a great tool for testing APIs. It will be used Postman to test that your API is accepting and responding with the appropriate Headers, Methods, and Data.

*e) Git:*

Git will be used for managing the project, or a set of files, as they change over time. Stores this information in a data structure called a repository.

1. **Applications: -**

This application will be used by students and their parents to retrieve information about colleges and even find them during the admission process.