

# **SafeJourn – Funds Requirement**

---

**Course: Final Year Project**

**Code: CS 491**

**BS (CS) Fall 2020**



**Supervisor: Dr. Zulfiqar Ali Memon**

**Co-Supervisor: Mr. Sayed Yousuf**

## **Team Members:**

Muhammad Shaheryar Khalid – K173907

Fizza Jawed – K173826

Arbaz Sohail – K173845

### **Abstract:**

We live in a country where risk and instability are much more than that of any other nation. Considering the risks, Children are the most vulnerable of all. They should be fully protected so that they can survive, grow, learn and develop to their fullest potential. To support the cause, A secured van registration and tracking system will be designed and formulated where each movement will be under observation to the affiliates of the traveler. The idea is to facilitate the van drivers by offering them the shortest and the fastest routes using the real-time traffic considering each pick-up point of the registrant and providing the real-time location of the pickup van to the registered mobile. The tracking will be done using the GPS in the mobile phones of the drivers which will enable the consumer to know the location of their child.

### **Introduction:**

As we all know that the children are important assets of a nation. If the growth of youth is harmed or restricted through any means, the countries take full responsibility and bring in innovative ideas to cater the problems and restrictions faced by the youth.

Pakistan is experiencing numerous threats. Considering them all, the reality of child abductions is serious and risks involved it in are common. The abduction of a child by anyone is one of the most devastating crises that a parent could ever encounter.

The impact on the abducted child is also traumatic. Countries are taking strict actions against it and are developing ideas to tackle such problems. Parents these days are more towards the security of their children and the only way through which one can rely on is safety precautions.

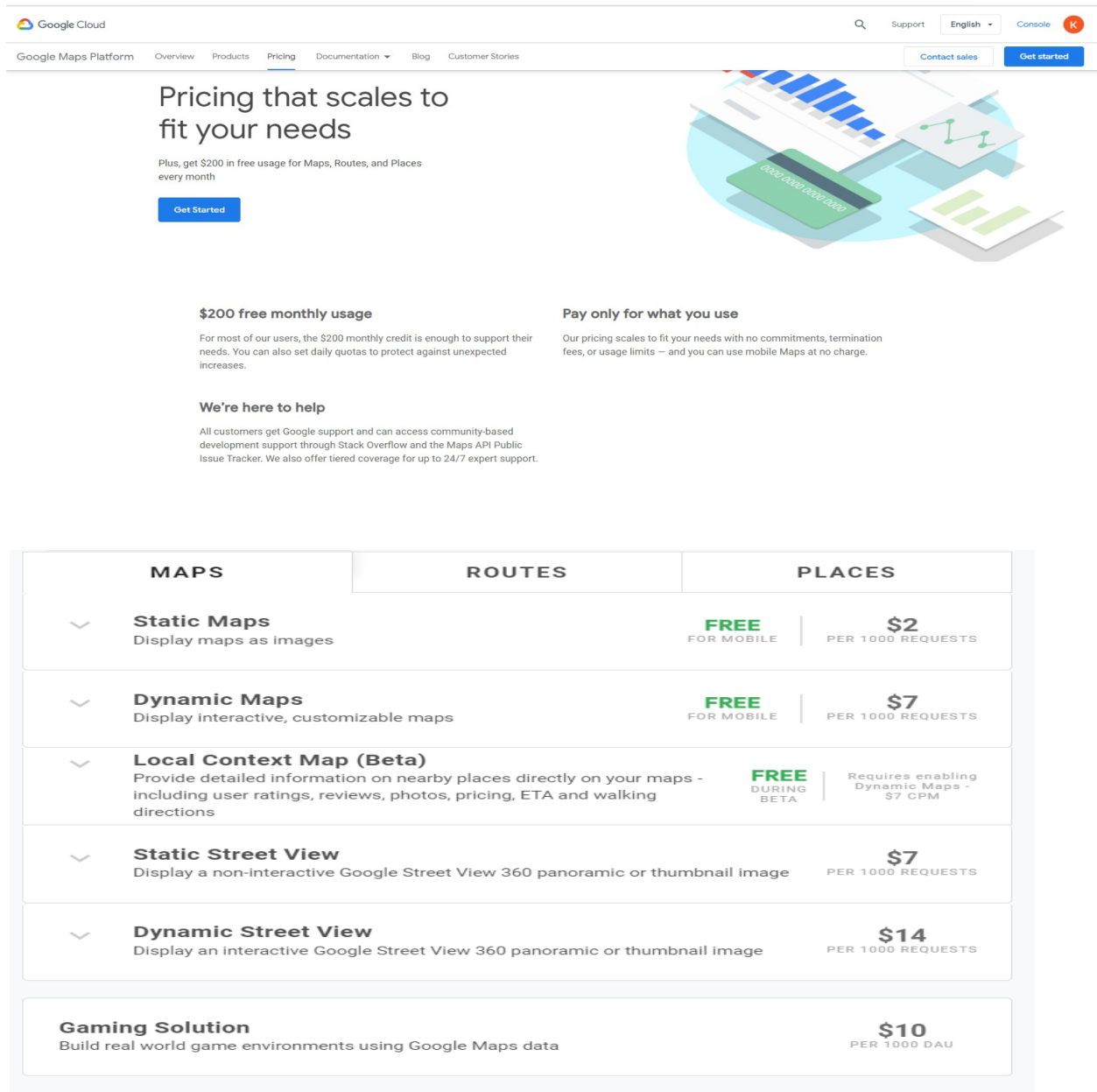
To support the cause, the idea to work for the SafeJourn and develop something for the safety of students was required.

### **Description:**

A van enrollment and tracking system through GPS will be made for an organization. In which parents can track the journey of their affiliates and the driver can have a short and fast route keeping each students' pick up point as a stop.. Furthermore, attendance of student via biometric system both at the time of entering the van which shows the student is safely on board and at the time of exit which shows safe arrival of the student at a particular organization is prevailed.

## Requirements:

Google Map API is required for the tracking and routing purpose of the students and the driver respectively to ensure their presence and safety through the whole ride. The required API and Equipment cost is distributed as follow:



**Pricing that scales to fit your needs**

Plus, get \$200 in free usage for Maps, Routes, and Places every month

**\$200 free monthly usage**

For most of our users, the \$200 monthly credit is enough to support their needs. You can also set daily quotas to protect against unexpected increases.

**Pay only for what you use**

Our pricing scales to fit your needs with no commitments, termination fees, or usage limits — and you can use mobile Maps at no charge.

**We're here to help**

All customers get Google support and can access community-based development support through Stack Overflow and the Maps API Public Issue Tracker. We also offer tiered coverage for up to 24/7 expert support.

MAPS	ROUTES	PLACES
<b>Static Maps</b> Display maps as images	<b>FREE</b> FOR MOBILE	<b>\$2</b> PER 1000 REQUESTS
<b>Dynamic Maps</b> Display interactive, customizable maps	<b>FREE</b> FOR MOBILE	<b>\$7</b> PER 1000 REQUESTS
<b>Local Context Map (Beta)</b> Provide detailed information on nearby places directly on your maps - including user ratings, reviews, photos, pricing, ETA and walking directions	<b>FREE</b> DURING BETA	Requires enabling Dynamic Maps - \$7 CPM
<b>Static Street View</b> Display a non-interactive Google Street View 360 panoramic or thumbnail image		<b>\$7</b> PER 1000 REQUESTS
<b>Dynamic Street View</b> Display an interactive Google Street View 360 panoramic or thumbnail image		<b>\$14</b> PER 1000 REQUESTS
<b>Gaming Solution</b> Build real world game environments using Google Maps data		<b>\$10</b> PER 1000 DAU

Therefore, for the aforementioned cost of the Google Map API and the device, we would like to get funded/sponsored from FAST NUCES.

<https://cloud.google.com/maps-platform/pricing>

## When is it required?

It is required as soon as possible and the gravity of this API is really high as majority of the functionality of SafeJourn depends upon the availability of API, Without this API we will not be able to present a functional product in fyp II.

### Total Amount

Amount In Dollars	Google Api with Routes, Maps and Geo Location	200\$/per month
Amount In PKR	Google Api with Routes, Maps and Geo Location	32072.10 Rs/per month