**A Project Proposal**

**On**

**Web Application with Android apps and GIS for Electric Charging Station and Vehicles Users.**

**Proposed for: Electric Charging Station and Vehicles Users**

**Proposed by: Legend Engineering Training & IT Solution**

[www.legendsoftbd.com](http://www.legendsoftbd.com)

**Date:** 30 March 2018

# Introduction:

Thank you for your interest in partnering with “**LEGEND ENGINEERING TRAINING & IT SOLUTION**” for your “**Web Application with Android apps and GIS for Electric Charging Station and Vehicles Users**” .

At Legend IT Solution, we hold one goal above all others: 100% client satisfaction. Our in-house team of web designers, copywriters, graphic designers, and developers uphold the highest standards for project planning and execution, also performed different types of training. We’re dedicated to train up for developing skill and enhancement.

We’ve trained professional and Industrial training and other skill development

In this proposal, you’ll find that what we feel is the optimal solution for your website and software development needs, along with the associated delivery timeline, costs, and project terms. Once you’ve reviewed this proposal thoroughly, simply electronically sign it at the bottom to indicate your approval.

Thanks again for the opportunity to earn your business!

About Us:

Legend IT Solution is a top provider of professional Software, IT Solution, Web site design and software development. We have over 3 years of experience in the web development field with a long list of satisfied customers. We will be happy to provide additional references upon request.

We have a clear understanding of the Software development requirements, and we have the knowledge, skills and experience to successfully complete the Software project. We have successfully completed different types of industrial management software. Our Company is doing some great activities and continuous development for responsible, passionate, rhythmic, skilled and active developer team. They are well-wisher and have enough experience for taking any challenging work which interpreted with new technology like GIS, Google Map integration with web application, Big Data and also some network technology such as CRN (Cognitive Radio Network).

Company Portfolio:

We have developed different types of Software and Apps.

Here some given below:

1. Charts of Accounts for Any Group of Industries.
2. Production Management System such as

* Auto Rice Mill Management
* Auto Bricks Field Management
* Jute Mill Management

1. Co-Operative Management or Micro Credit business.
2. Inventory or Ware house Management
3. Web Application with Apps and GIS for Cargo System (Ongoing Project)
4. Hospital or Diagnostic System Management
5. Cold Storage Management
6. Dealership or whole sale business software
7. School, College, University portal with Library, HRM, Payroll, Online registration, Admission, Exam, Result Management Payment Strategy etc.
8. Polytechnic Management for Technical Education (Diploma, BSc)

Developers Profiles:

List of some developers and some others info are given below in tabular form:

|  |
| --- |
| **Name:** Engr. Md. Motassem Billah  **Designation:** Managing Director and Project Manager  **Email:** motassem0281@gmail.com  **Experts on Topic:** Software Analysis, Database Design, Software Testing, C, C++, Java, Python, Network Design (CCNA), Big Data, Predictive Analysis, BI & A, Power BI, Tableau. |
| **Name:** Md. Nasir Hossain  **Designation:** Senior Software Developer.  **Email:** mnasirmollah@gmail.com  **Experts on Topic:** Java programming, Spring Boot 2, Rest full API, swagger, Apache camel for stream cashing, Spring Data JPA, Spring security 4.3.2, Auth2 Authentication for API security. React JS, React Bootstrap, Redux, Saga, Selector, Reducer, Jqx grid, Faker & js pdf for reporting, I report. |
| **Name:** A K M Rakib Hasan  **Designation:** Senior Software Developer.  **Email:** rakibhasan880@gmail.com  **Experts on Topic:** PHP, Database Design, My SQL,  Yii Framework, Cake PHP, Laravel Framework, Bootstrap, Expert on Java Script (JS), HTML-5, CSS-3, Also have Java Programming Knowledge. |
| **Name:** Engr.Motahar Bin Ataur  **Designation:** Software Developer.  **Email:** mrhsajib.cse@gmail.com  **Experts on Topic:** PHP, Database Design, My SQL,  Yii Framework, Word press Theme development, Laravel Framework, Bootstrap, Expert on Java Script (JS), HTML-5, CSS-3. |
| **Name:** Chayan Chandra Majumdar  **Designation:** Software Developer.  **Email:** chayancseduet@gmail.com  **Experts on Topic:** Java programming, Spring Boot 2, Rest full API. |
| **Name:** Engr.Manik Ullah  **Designation:** Web Developer.  **Email:** engmanik11@gmail.com  **Experts on Topic:** PHP, Word press Theme development, Bootstrap, Expert on Java Script (JS), HTML-5, CSS-3. |

Project Description:

**Rational:**

**Project proposals**

There are several steps have to be maintained to develop or manage this application:

**Charging Stations:**

1. It should be register or include all the Charging Station according to specific zip code or location.
2. How many vehicles will be charged at a time in a specific Charging station or how many charging slots have in one Charging station it should be countered and input into this application
3. How many times needs to complete charging of one vehicle according to vehicles types or others factors it should be verified
4. Payment strategies have some terms and condition, like 1 hour charging of any vehicle is $20.

**Users Sign In and Sign Out:**

When a vehicle driver or a vehicle owner needs to charge his vehicle:

**Step1:** He has to go online and enter into this apps (Named Charging apps) then search the nearest charging point from his current location.

**Step2:**  The apps will show all nearest charging station with available charging slots. Also apps will show the distance between vehicles and charging station.

**Step3:** Then Rider can choose his preferable charging station and charging slot then he can gives booking order and can payment online.

**Step4:** before booking he can register himself on this app for future service and facility.

**Step5:** There have some others special feature for rating and commissions.

**Development tools:**

1. For GIS we can use different types of GIS tools like Arc GIS.
2. Using different types of Google Maps API, we can generate location.
3. Using distance Matrices Algorithm we can find out the distance between vehicles and charging station.
4. Nearest neighbor Algorithm can helps to find most nearest charging station.
5. DFS Algorithm or Modified DFS Algorithm can helps to find available node or free slots.
6. For Web application development we can use Java programming, Spring Boot 2, Rest full API, swagger, Apache camel for stream cashing, Spring Data JPA, Spring security 4.3.2, Auth2 Authentication for API security. React JS, React Bootstrap, Redux, Saga, Selector, Reducer, Jqx grid, Faker & js pdf for reporting, I report etc.
7. For developing Android Apps we can use apps development SDK or other related software.
8. For database design we can use My SQL Server or Oracle database management software.
9. Finally we can integrate all the APIs, Algorithm, Programming languages, database using some others software tools and hardware.

**Comparing Other Apps:**

1. Using Uber Apps we can take a taxi cab but Uber apps cannot view all the seat of any car or Microbus. For this case we cannot booked any specific seats but our apps can facilitate.

**Others Applicable Sectors and implementations:**

1. This application can be used some others sectors like Cargo System management.
2. Filling station, Gas Station etc.

If any query or suggestion please inform us. We would be pleasure and more efficient for client satisfaction. The entire requirement has to be done as client requirement also.

Thank you so much for your great response.