Project Proposal

We are not a Team, But a never-ending process of continual improvement.

TECH DEVOPS

Group Name: TechDevOps

Leader Name: Muhammad Humza

Project Name: GO-TAXI

Dated: 19-09-2021

Software Project Proposal:

Client's Company	Go-Taxi
Client's PoC (Name - Email)	Mr. Ahmed Qaiser - m.ahmed.4u@gmail.com
Version	1.0
Date Created	19-Sept-2021
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Project Summary:

This software provides solution to people or passengers who want to travel using motor vehicles. This software also facilitates drivers to earn money by giving rides to passengers who want to travel. To connect both drivers and passengers we are developing an online platform through which passengers can book their rides with drivers and can travel towards their destination.
This solution will be a native application which will operate on website as well as popular mobile platforms. The software will provide an interface to users through which they can navigate select different ride modes and can see driver details and information. Following are the objectives of project.

- A market competitive solution
- To develop a complete system for passenger and drivers.
- Provide a mean of chat communication between passenger and driver.
- Integrating a map so that users can provide location.
- Integrating Fare Calculator.
- Defining different ride categories.
- Subscription Based Perks and facilities
- Integrating e-wallet by which users can pay.
- Following a qualitative and collaborative approach.

The project includes all the requirements and procedure needed by the organization for their working environment like design, development, testing, deployment, data transfer and storage and finally the maintenance and upgrading of the software. This document only contains the technical idea and the requirements with their timeline of the project.

User Requirements

All Users

1. Interact with the application
2. Be able to login to their accounts using their email and password provided
3. Be able to logout from their profiles**.**

Admin

1. Be able to add, delete and modify database
2. Be able to add and remove users and set authority
3. Be able to monitor the system

Admin-Managers

1. Be able to view all drivers
2. Be able to view the list of customers
3. Be able to view all the customer request
4. Be able to view all workers available

5. Be able to create, edit and delete information
6. Be able to search for information
7. Be able to notice the editing and changes made by the users.

Functional Requirements.

1. The Application must have a logo at the start of application.
2. Every online booking needs to be associated with an account 3. One account cannot be associated with multiple user.
4. Search results should enable users to find the most recent and relevant booking rides options.
5. System should enable users to book / pay for their rides only in cash or credit card.
6. The application shall keep track of all processes and changes happening to the data between login and logout times of the users.
7. The application should enable the users to logout after using the application when the user clicks on the logout button.

Non Functional Requirements Usability

The Application should be easy to use by every user. In order to accomplish this objective, the system should have a simple and well-designed interface.

Accessibility

The Application should be made accessible to the people who live everywhere in the world. Anyone can use the system regardless of the location and can get the information they acquire.

Performance

The performance of the application should be fast and efficient in adding information of drivers. The system should be available for user in real time and always up to date.

Speed

The application response time is a significant requirement because the action cannot be postponed or delayed. The application should be fast enough to satisfy the user's needs and should not waste their time.

Efficiency

Efficiency of any system is concerned with the minimum processing time as well as the optimal use of system resources in designing the proposed systems. Our android application will be efficient in using processing resources. It can be efficiently run on all android devices.

Availability

The Application should operate 24 hours a day.

Friendly GUI's

The users of this application have different types of people and different levels of technical skills, therefore the application should be understandable by all the users. Consequently, the Application should provide an easy to use, friendly Graphical User Interface (GUI). **Security**

Data inserted by user is secured and saved by this application, and will be redundant, in order to perform the exact action in specified situation.

In Scope

- Includes two app-based and two web-based interfaces with Design, development, testing and deployment of the system.
- Location fetching.
- Availability for the users around the clock.
- Time management for travelling duration.
- Accessibility of Data info.
- Support and Maintenance of the solution when upgraded.
- Cost management for per KM.
- Rating function for feedback.
- Security of customers.
- A secure interface should be maintained for Data Encryption, both in transit and at rest.
- Payment methods to access the facilities of the solution.

Out Scope

- Integration with any third party's location interface.
- Integration with any other existing solution.
- Irrelevant Data.
- Domain and Hosting Solutions.
- Multiple deployments of the solutions.
- Non-mapped location.
- Documentation other than the Project Requirement Document, Deployment Appointment List, Prescription and User Manuals.
- Automated test suite for functional or performance testing.
- Quick Responsive Design.
- Auto payments.
- Mobile or Desktop applications.

App & Web Interfaces:

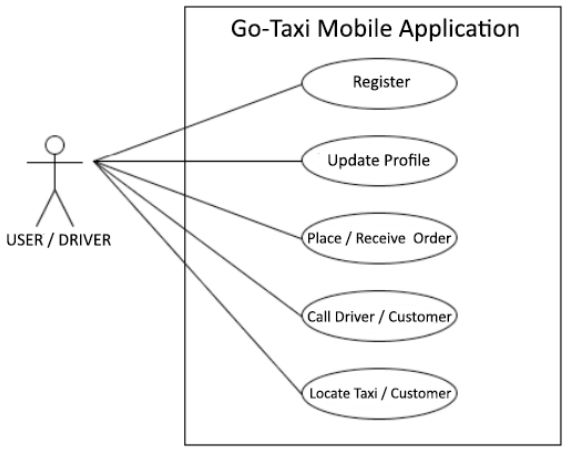
This solution will have two Web-based Interfaces & two App-based Interfaces.

- **Mobile application for passengers:** This is the side of the application that allows customers to order a taxi. A set of standard functions includes registration, order form, the ability to track routes, make payments and leave feedback.
- **Mobile application for drivers:** The application is also the main working tool for the driver (after the car). With its help, he can see active (inactive) orders, see his statistics, plan his trips according to online maps and react to feedbacks left.
- **Vendor Web-Panel:** This section of application allows any person to own & manage more than one vehicle. They can have multiple drivers in their umbrella. Vendors can look after drivers' actives locate their vehicles whenever they wish to.
- **Administrative Web-Panel:** The owner of the application (or any other person who has access to the administrative panel) can manage the processes from the inside and track all data coming into the application from both taxi app users and performers.

Modules/Features

User Side:

- A module for registering on the platform.
- A module that allows a user to update his/her profile.
- A module for placing order for a Taxi.
- A module for calling the Taxi man.
- A module for locating the Taxi.
- A module for making payment in various ways.



Driver Side:

- A module for registering on the platform.
- A module that allows a driver to update his/her profile.
- A module that allows driver to put his/her status online/offline.
- A module for receiving riders form customers for a taxi.
- A module for calling the customer.
- A module for tracing customers' location.
- A module for receiving payment in various ways.

Project Deliverables

Below is the list of deliverables taken from the RFP shared by the client.

- # Comparison with same available software. (Careem, Uber, Bykea etc.)
- # Project Status report/WBS
- # Project Variance
- # Wireframes and prototypes.
- # Software Requirement Specification
- # development (UI , Front-end, Back-end)
- # QA and Testing
- # Regression Testing
- # Beta Testing
- # Production and maintenance
- # User Manual

Dependencies

- # Research and data analysis
- # Detailed requirements and reporting formats.
- # Communication platforms
- # Logo and other branding/design related artefacts.
- # Backend data encryption.
- # Email Marketing Solutions.
- # Domain and Hosting Solution along with SSL, will be provided by the client.
- # Details of the legal framework and business flows/processes.

Project Estimates

Project Estimation depends upon the no of features you add on your project to make it more advance and attractive for your clients. These are some of the basic features which will be added in our project.

- An approximate cost to build payment features for our app.

Feature	Approximate time	Approximate cost
Payment method includes adding a card, scanning card by the camera and so on.	2 to 5 weeks	$4000+
Selecting payment	1 to 2 weeks	$2000+
Working on info screen	1 to 2 weeks	$2000+
Total cost	3 to 6 weeks	$6000+

UI/UX Design:

User experience plays a crucial role in the success of our app. we'd wish to impress our clients with an easy-to-use and stunning UI/UX.

- An approximate cost for UI/UX design.

feature	Approximate time	Approximate cost
UI/UX design for iOS	3 to 5 weeks	$6000+
UI/UX design for android	3 to 5 weeks	$6000+
Total cost	6 to 10 weeks	$12000+

Scheduling A Ride in Advance:

Scheduling a ride is an exciting and well-ideated feature. It's quite handy. Imagine booking a ride beforehand.

- An approximate cost to incorporate scheduling a ride feature for our app.

feature	Approximate time	Approximate cost
Scheduling a ride (total cost)	3 to 6 weeks	$6000+

Booking A Ride For Someone:

Imagine you wish to book a ride for your grandmother through your account. She'd definitely be happy.
An approximate cost to incorporate booking a ride for other people feature for our app.

feature	Approximate time	Approximate cost
Booking a ride for someone else (total cost)	4 to 8 weeks	$8000+

Splitting Fares:

Another exciting advanced feature—is split a fare. The feature allows customers to share (split) the cost of a ride with fellow-travelers. Here's how much it will cost to develop such a feature:

An approximate cost to incorporate split a fare feature for our app.

feature	Approximate time	Approximate cost
Splitting fares (total cost)	4 to 6 weeks	$6000+

Geo-location and Routing:

Let's get back to one of the basic features. The primary functionality of geolocation and routing uses GPS technology. The technology helps to track the location of the car driver.
An approximate cost for incorporating geolocation and routing features for our app

feature	Approximate time	Approximate cost
Map integration	1 to 2 weeks	$2,000+
Set pickup location	1 to 2 weeks	$2,000+
Detects user location	1 to 2 weeks	$2,000+
Total cost	3 to 6 weeks	$6,000+

Driver Report:

The feature (driver report) ensures the safety of both entities: a driver and a passenger. The report encapsulates the driver's driving style.

- An approximate cost to build the driver report feature for the driver's app

feature	Approximate Time	Approximate cost
Driver report (total)	1 to 2 weeks	$2000+

Driver Destinations:

The driver destination feature is an exciting feature and a must-have. Drivers can pick the preferred location, which enables them to find passengers who need a ride in that specific direction. An approximate cost to incorporate driver destinations feature for the driver's app

feature	Approximate time	Approximate cost
Driver Destinations	2 to 3 weeks	$3000+

The Final Cost of Developing Our App:

Feature	Approximate Time	Approximate Cost
Payment integration	3 to 6 weeks	$6,000+
Geolocation features	3 to 6 weeks	$6,000+
Ride scheduling	3 to 6 weeks	$6,000+
Booking a ride for others	4 to 8 weeks	$8,000+
Split a fare	4 to 6 weeks	$6,000+
Registration and profile	2 to 3 weeks	$3,000+
Notifications	2 to 4 weeks	$4,000+
Ride cost estimation	1 to 2 weeks	$2,000+
For Back-end (Framework and libraries integration)	4 to 8 weeks	$8,000+
For Android/iOS (Framework and libraries integration)	4 to 6 weeks	$6,000+
For Android/iOS (UI/UX development)	6 to 10 weeks	$12,000+
Total for two apps (Android/iOS)	~4 to 8 months	~67,000+

The cost to build our app (go taxi) may range anywhere between $67,000 and $150,000

Server Requirements

To focus on development and market the product with reduce effort and time, cloud solution is the better approach for hosting backend services. It provides many useful tools out of the box which will improve data security, reliability and availability. These services will be consumed by the app that users can get from Google and IOS stores. Team of devOps will handle continuous integration and deployment for both the application and server side

Suggested configuration for cloud platform is given below:

Application Server

Processors	1 GHz
RAM	1 GB
HDD	40 MB
Internet bandwidth	1 mbps
OS	Android / IOS/ Windows

Database Server

Processors	4 core Intel Xeon
RAM	64 GB
HDD	1 TB
Internet Bandwidth	3 gbps

Technical Tools Required

- Framework: PHP Laravel, Python
- JavaScript framework: React.js, Node.js
- HTML, CSS, JQuery, WordPress
- MySQL, MS SQL for Database

Project Team

The project team will have the following members:

- Project Manager
- Marketing Analyst
- Business Strategist
- Developer
- Graphics Designer
- SQA Officer
- Finance Officer

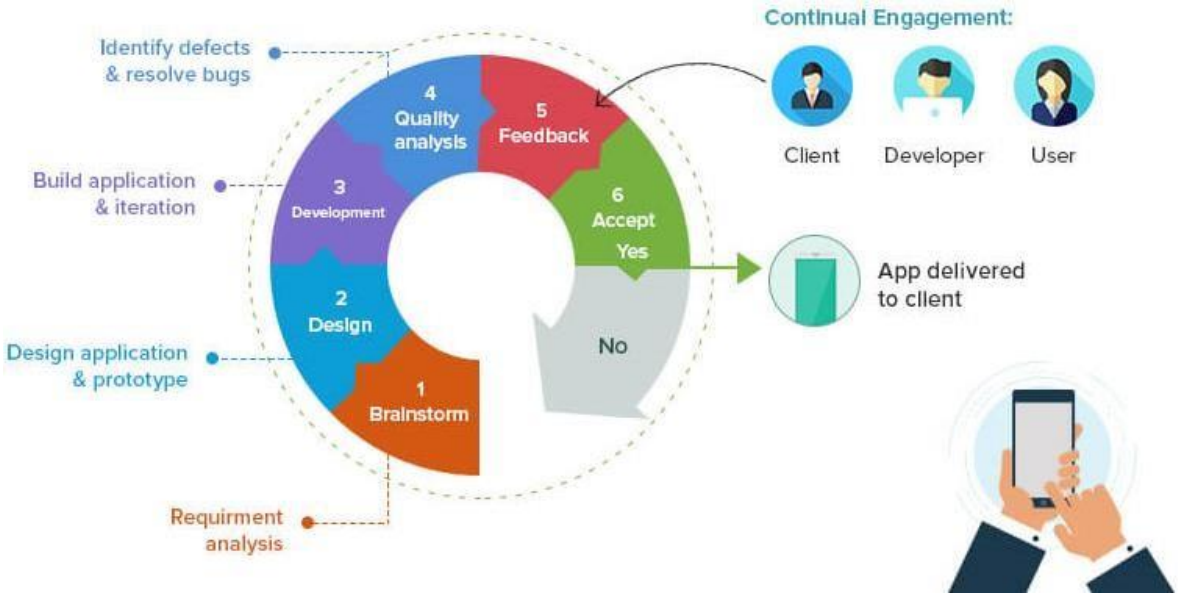
Development Process:

We normally need 20-24 weeks to finish the mobile app completely. We send feedback to our client for every successful step we make. We assure our clients that we kept them updated with the project.

Application Development Process:

1. Meeting and formally offering the proposal.
2. Acknowledgment and signing of contracts.
3. Research and data analysis.
4. Creating the first mockup and approval.
5. Proceed with building the app using wireframes.
6. Create the front-end technology of the app.
7. Improve visual UI design.
8. Produce the backend technology of the app.
9. Perform UX (User Experience) QA Testing.
10. Perform further testing with the client.
11. Launch the app in the App Store and Play Store.

Note: This application will be developed using the Agile Model. The process is depicted in the diagram below



Contract

S.NO	ITEM	DESCRIPTION
1	Pricing estimate	Estimated price $67000(Us dollars), bid settlement for$65000
2	validity	
3	ownership	
4	licensing	
5	Project delivery timeline	Start date:14-sept-2021 End date:15-jan-2022(123 days)
6	Payment plan	30% before start of development(programming) 20% after testing and delivering of prototype.50% after go live /final deployment
7	cancellation	
8	Support period	40 days
9	Ongoing support and maintenance	42 days
10	Intellectual property	
11	Human resource	
12	Acceptance	