

*Project Proposal:*

*Software Construction And Development*

*(CSC-102)*

*Submitted to:*

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GO-TAXI

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# **Introduction Of Our Team Members:**

We have a talented and dedicated team working on this project, including:

## Project Manager:

Hafiz Areeb Ahmed - He is the leader of our team, responsible for overseeing the project and ensuring that everything runs smoothly.

## Frontend Developer:

Syed Ali Ausaja Zaidi - He is responsible for designing and implementing the user interface of our project, ensuring that it is user-friendly and visually appealing.

## Backend Developer:

Shahmeer Rizwan - He is responsible for developing the server-side logic and integrating it with the frontend to create a seamless user experience.

## UI/UX Designer:

Ali Maisum Rehmani - He is responsible for creating the overall look and feel of our project, ensuring that it is both aesthetically pleasing and functional.

## QA Engineer:

Humna Hashmi - She is responsible for testing the project and identifying any issues or bugs that need to be addressed before launch.

## Database Administrator:

Maaz Naveed - He is responsible for managing the project's database, ensuring that it is efficient, secure, and reliable.

# **Introduction about My software:**

We will be making a software which is GOTAXI, GOTAXI software is a platform that provides an online pick-up and drop-off service to users. The software allows passengers to request rides from their location to their desired destination through a mobile app or website. This provides a convenient and efficient way for users to get around without having to worry about driving themselves.

As a driver, you can sign up to the platform and receive requests from users looking for a ride. The platform matches drivers with users based on their location and availability. Once a ride request is accepted, the driver can navigate to the passenger's location and pick them up.

The software also provides a payment system that allows users to pay for their ride through the app, making the payment process seamless and hassle-free. Users can rate their driver and leave feedback, which helps to maintain a high standard of service.

Overall, our GOTAXI software provides a reliable, safe, and easy-to-use solution for users who need a ride to their destination.

In addition to the basic ride-hailing functionality, our GOTAXI software can also offer various features such as real-time tracking, multiple payment options, in-app messaging, and driver ratings. These features enhance the user experience and increase the trust and transparency of the platform.

To ensure the safety and security of both passengers and drivers, our GOTAXI software can also implement background checks and verification processes. This helps to create a trustworthy and reliable platform, which is essential for building a strong user base.

With the growing demand for on-demand transportation services, our GOTAXI software has the potential to revolutionize the way people commute in cities. By providing a reliable and convenient alternative to traditional taxi services, your software can help to reduce traffic congestion and make commuting easier and more efficient for users.

# **Main Features:**

Here are some of the main features that OUR GOTAXI software could include:

* Ride booking: The ability for users to book a ride through a mobile app or website, specifying their pick-up and drop-off locations, as well as their preferred vehicle type.
* Real-time tracking: The ability for users to track their driver's location in real-time, so they know exactly when their ride will arrive.
* Multiple payment options: The ability for users to pay for their ride through the app using various payment options, including credit/debit cards, e-wallets, and cash.
* Driver ratings: The ability for users to rate their driver and leave feedback, which helps to maintain a high standard of service.
* In-app messaging: The ability for passengers and drivers to communicate with each other directly through the app, making it easier to coordinate pick-ups and drop-offs.
* Background checks and verification: To ensure the safety and security of both passengers and drivers, your software could implement background checks and verification processes.
* Multi-language support: The ability to support multiple languages, so users can use the app in their preferred language.
* Customizable pricing: The ability for you to set your own pricing, which can vary based on the time of day, distance, and demand.
* User analytics: The ability to track user behavior and preferences, such as their preferred vehicle type or payment option, to provide a more personalized experience.
* Loyalty programs: The ability to reward users who frequently use the platform with discounts or other incentives.
* Ride scheduling: The ability for users to schedule a ride in advance, making it easier to plan their commute.
* Surge pricing: The ability to increase pricing during periods of high demand, such as rush hour or during major events.
* Referral program: The ability for users to refer friends and family to the platform and receive discounts or other incentives.
* Driver incentives: The ability to provide incentives for drivers, such as bonuses or higher commission rates, to encourage them to provide excellent service.
* In-app advertising: The ability to display advertisements within the app, which can generate additional revenue.
* Route optimization: The ability to optimize routes for drivers, taking into account traffic patterns and congestion, to reduce travel time and improve the user experience.
* Vehicle selection: The ability for users to select their preferred vehicle type, such as standard, luxury, or SUV.
* Integration with other services: The ability to integrate with other services, such as public transit or bike-sharing programs, to provide users with a more comprehensive transportation solution.
* Driver scheduling: The ability for drivers to schedule their availability, making it easier for them to manage their work and personal life.
* Automatic dispatch: The ability to automatically dispatch the nearest available driver to a ride request, improving response times and reducing wait times for passengers.

# **Tools and Technologies of our Software:**

Programming languages: We are using PHP and Laravel (Laravel is a framework of PHP which provides build function , build libraries etc.). PHP is a popular programming language for web development. It is an open-source language that can be embedded directly into HTML code, making it easy to create dynamic web pages. PHP has a large community of developers and users, which means there are many resources available for learning and troubleshooting. That’s why we are using PHP in our software.

Using Laravel we can save our time using pre-build functions and libraries, Laravel is a web application framework built on top of PHP. It provides a set of tools and functionalities that make it easier to build robust and scalable web applications. Laravel includes features such as routing, authentication, and database management, which can save developers time and effort in building web applications from scratch.

Database management: We are using MYSQL Database in this software because MySQL is a popular open-source relational database management system. It is widely used in web development because it is fast, scalable, and secure. MySQL is known for its flexibility and reliability, and it can handle large volumes of data with ease.

Development: For web/app development we are using HTML ,CSS , JAVASCRIPT, REACT, helping these languages we build a frontend of our software we using media queries because we make a web and app application.

# **Tentative Timeline of our Software:**

| **Phase** | **Timeframe** |
| --- | --- |
| Planning and Requirements | 2-3 weeks |
| Design and Prototyping | 3-4 weeks |
| Development | 6-10 weeks |
| Testing and QA | 2-3 weeks |
| Deployment and Launch | 1-2 weeks |
| Maintenance and Support | ongoing |

Note: The timeline provided is a rough estimate and may vary depending on the specific requirements and complexity of your project.

# **Differentiae Our software with Existing Software Using These New Features:**

To create a difference in our GOTAXI software compared to other existing software in the market, we want to consider adding unique features or capabilities that are not available in other platforms. Here are some potential areas where we could differentiate our software from other

* User experience: We focus on delivering a smooth, easy-to-use, and intuitive experience for users. This includes features such as one-click booking, real-time ride tracking, personalized recommendations, and customized ride options.
* Safety and security: We highlight our commitment to rider safety and security by incorporating features such as driver background checks, in-app emergency alerts, and enhanced security measures for payment processing.
* Innovative payment options: We consider adding unique payment options such as mobile wallets, in-app payment systems, and digital currency payment options.
* Integration with other services: We integrate our GOTAXI software with other services such as public transportation, ride sharing, and car rentals to provide a more comprehensive transportation solution for users.
* Advanced analytics: we are adding, incorporate advanced data analytics capabilities to gather insights on user behavior, preferences, and feedback, which can be used to improve the user experience and refine our software features.
* Sustainability features: We will provide user friendly environment, incorporate eco-friendly features such as electric vehicle options or carbon offset programs to appeal to environmentally conscious users.