The transport sector has undergone a significant change with the advent of taxi apps with cost-effective solutions as GPS integration and automatic fare calculation...

TaxiMobility™

Custom-built Application for
Building Taxicab Business

NDOT®

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Abstract

The picture of hiring taxi, which includes waiting on the road for limitless hours that leads to waste of time and frustration, has been a matter of torment for many. Technology has caused a revolution in the traditional ordeals of hiring taxis introducing mobile applications for easy cab reservations. When conventional taxi hiring system fails to provide customer-centric services, mobile apps reap the advantages of the situation as intelligent taxi service providers. Highlighting the deficiencies of the conventional system, taxi apps are mindful of consumer expectations and the requisites to maximise cost efficiency.

It has been a long wait for consumers to finally experience a point-to-point taxi app solution. Taxicab hiring application extends a higher level of customer service, productivity and safety. Users can access this service using smartphone technology that comply with the convenience of passengers and drivers, and enhance the mobility of your business. The users will be advantaged by the innovative taxi solution, the best means of getting quick and easy, lower-cost cab services.

With distinctively new technologies and scientific breakthroughs adorning the personal transport sector, taxicab hiring apps have immense scope in accordance with the current market trends. With smartphones in hand, users have access to taxi dispatch service that meets the needs of passengers and drivers alike. Taxi application has great potential to transform life and business, swelling up the number of its users.

The key to choosing the right application from a cascade of similar ones rests entirely on the market requirements that meet all standards of quality and reliability.

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Mobile internet-enabled devices have gone from luxury to a way of life for those who own smartphones and tablets.

Mobile Apps for Taxicab Hiring

Mobile internet-enabled devices have gone from luxury to a way of life for those who own smartphones and tablets. Among the catalogue of recent technological advancements, taxicab hiring application reserves the top position for ensuring efficient fleet management system that is fast and convenient. Taxi app integrates GPS and Google Map to track and display journey routes and destination. The entire pre-booking process is made simple for passengers with a completely automated and highly configurable dispatch system.

The application is so refined with its intricate features that allow users to choose vehicle types with A/c, non A/c or wheelchair availability. Cab services have never been easier before. With automated fleet management system in its best form, brings home hassle-free functionalities that reduce costs and improve fleet efficiencies. In an era that offers extensive possibilities for taxi business, which would rather continue until people stop travelling, taxi applications hold out a complete range of

solutions that can give an exponential rise to your traditional taxi business.

Mobile computing devices and applications are rapidly evolving with promises to improve service delivery and raise productivity. Smartphones provide the advantages of managing fleet from anywhere with easy-to-use mobile apps. Taxi applications serve users at either ends.

The customers can locate the nearest available taxis, and drivers can choose the preferred route to the destination with seamless GPS and Google Map integrations. Passengers can save a large amount of time when it comes to payment as billing can happen via the app using PayPal, credit card or cash. Compatible on various platforms such as Android, iPhone and Blackberry, taxi apps extend easy-to-setup and user-friendly taxi solutions.

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TaxiMobility Mobile Application Modules

Administrator

The administrator can log in into the application using the special user id and password to manage the entire functioning of Taxicab mobile application. The user panel is accessible to the Admin, drivers, passengers and companies separately.

All company panels are controlled by a master admin panel. Payment gateways are integrated in the application for easy transactions. The payments made by the customers are routed to the taxi companies. Application/admin can also handle and calculate late arrival or waiting charges. The application works by redirecting the placed request to the selected location. Admin can set the timings in the backend for cancellation.

Partner App

TaxiMobility provides the opportunity for taxi companies to now partner with other industries/companies using a Partner app. The app enables other companies to easily register their cab requirements which thereby helps in increasing the business of taxi companies.

Introducing the first ever mobile app for Dispatchers

The TaxiMobility Dispatcher App empowers dispatchers to run their business from anywhere using their mobile device. The App is designed as compatible on all mobile and tablet devices for easy dispatching, assigning, tracking, reporting and more.

- Responsive and intuitive user interface design
- Refined filter and search capabilities based on vehicle/booking/driver status, vehicle model, location, driver name, driver availability, etc.
- Custom settings to edit and modify profiles, bookings and more
- Flexibility to select between auto and manual dispatch as per requirements
- Real-time booking notifications and transaction reports

App allows customers to enter the destination of their choice and choose from the list of taxis using Google Map, while ETA is calculated proficiently.

- Advanced live tracking and automatic status updates
- Precise trip statistics, booking heatmaps and driver performance analytics
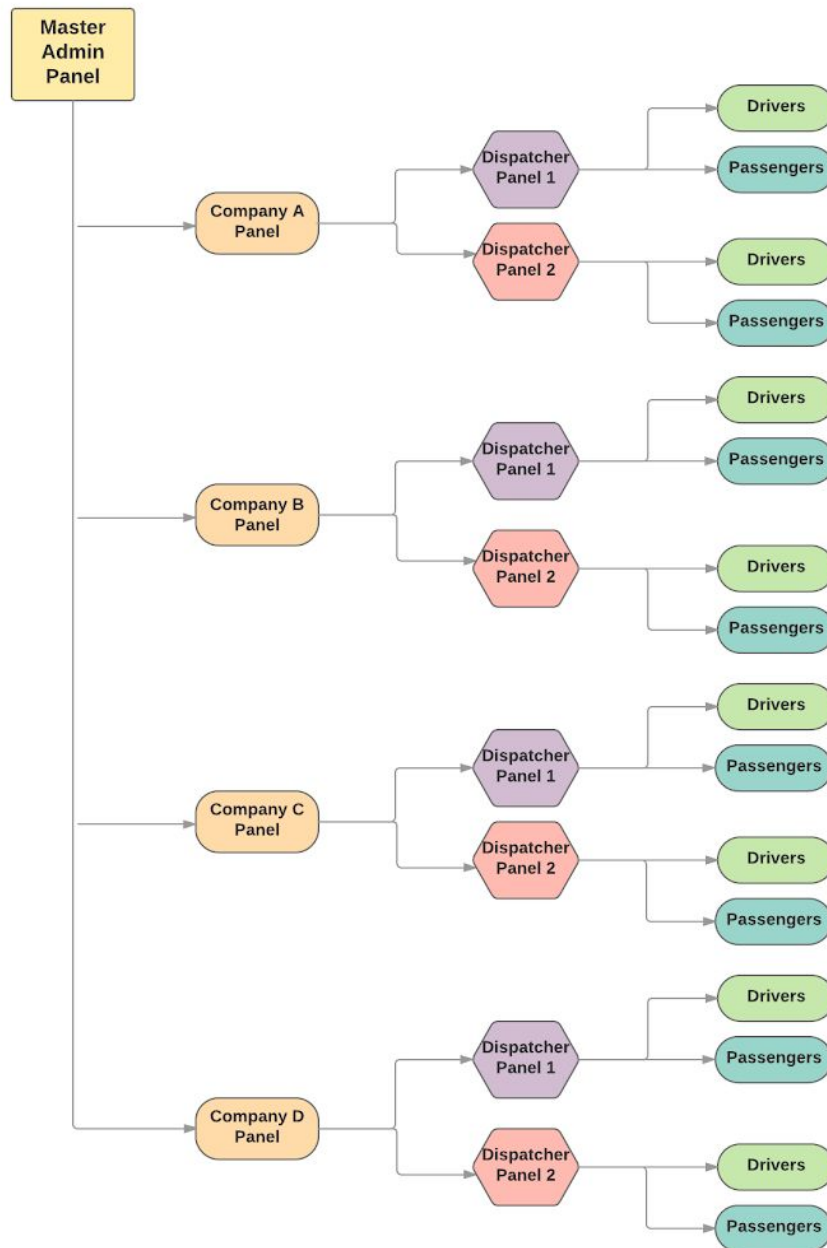
Taxi Drivers

Taxi drivers can view a splash page when they login. The application has GPS based location detector which allows to spot the customer location. Taxi drivers can sign in and sign off from the application as well as set the status of their taxis. The status of a driver can be set as On shift or Off shift. When a passenger is on board, the mode is set as busy. The status mode is switched on or off based on the availability of taxis. The taxi drivers can accept or reject the passenger request based on their availability.The ETA is calculated based on the distance covered by the vehicle to reach the customer. Payments are received by the taxi drivers when a trip is completed.
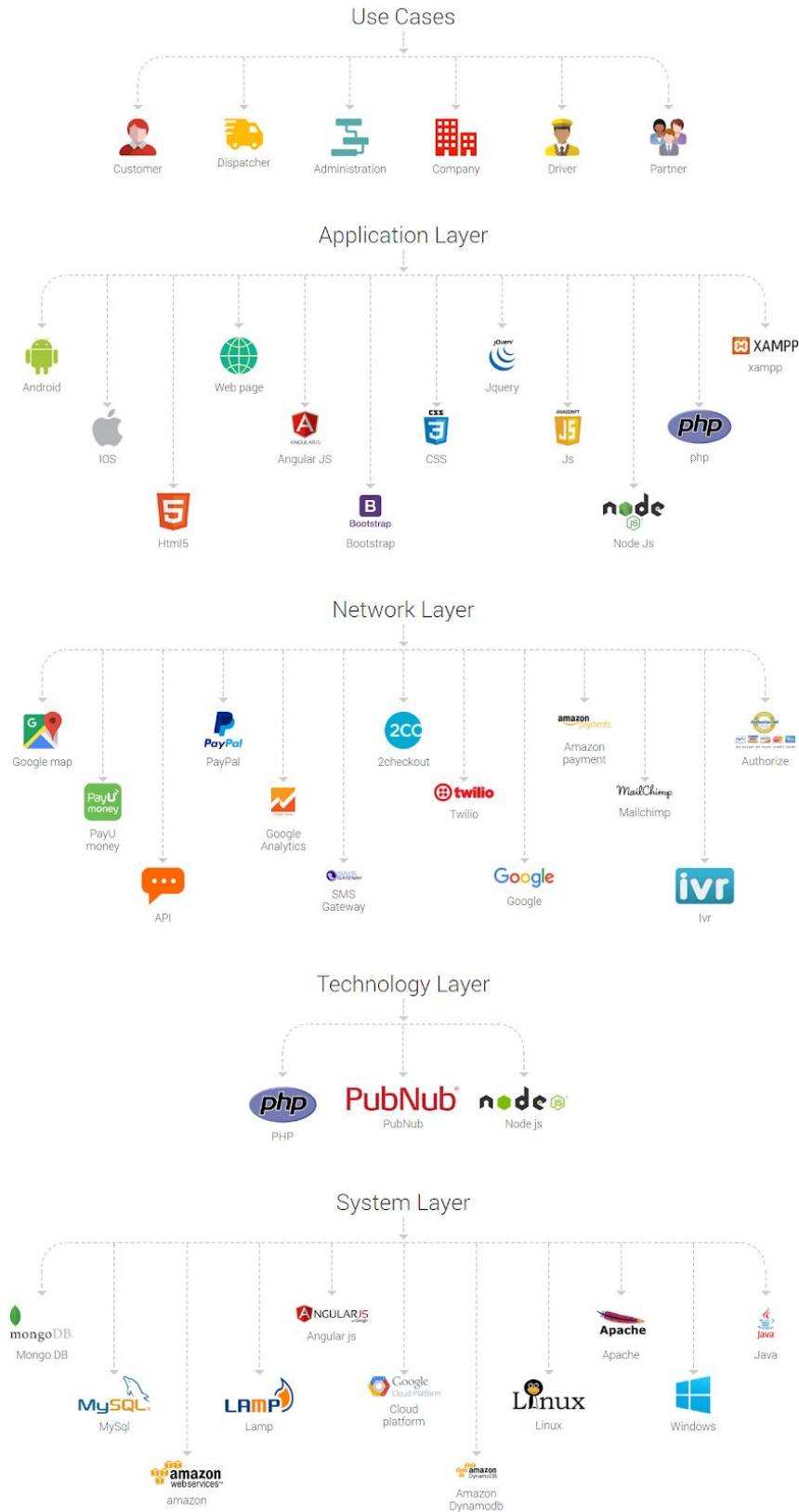
End Users

A splash screen appears for the end users when they sign in into the application. The location of the end user is detected via GPS. The customers can enter the destination of their choice and choose from the list of taxis within 750 m using Google Map. Users can also indicate the other facilities required during the ride while booking.

Payments can be made either by cash or card and after the payment is done, users can locate the nearest available cab drivers. The estimated time for the arrival of taxi is calculated by the application. They can share the feedback and rate the service provided by the driver after completion of the trip. It includes star rating for the drivers. Users can save their recent trip history in the application. Users also have the option to cancel their booking anytime.
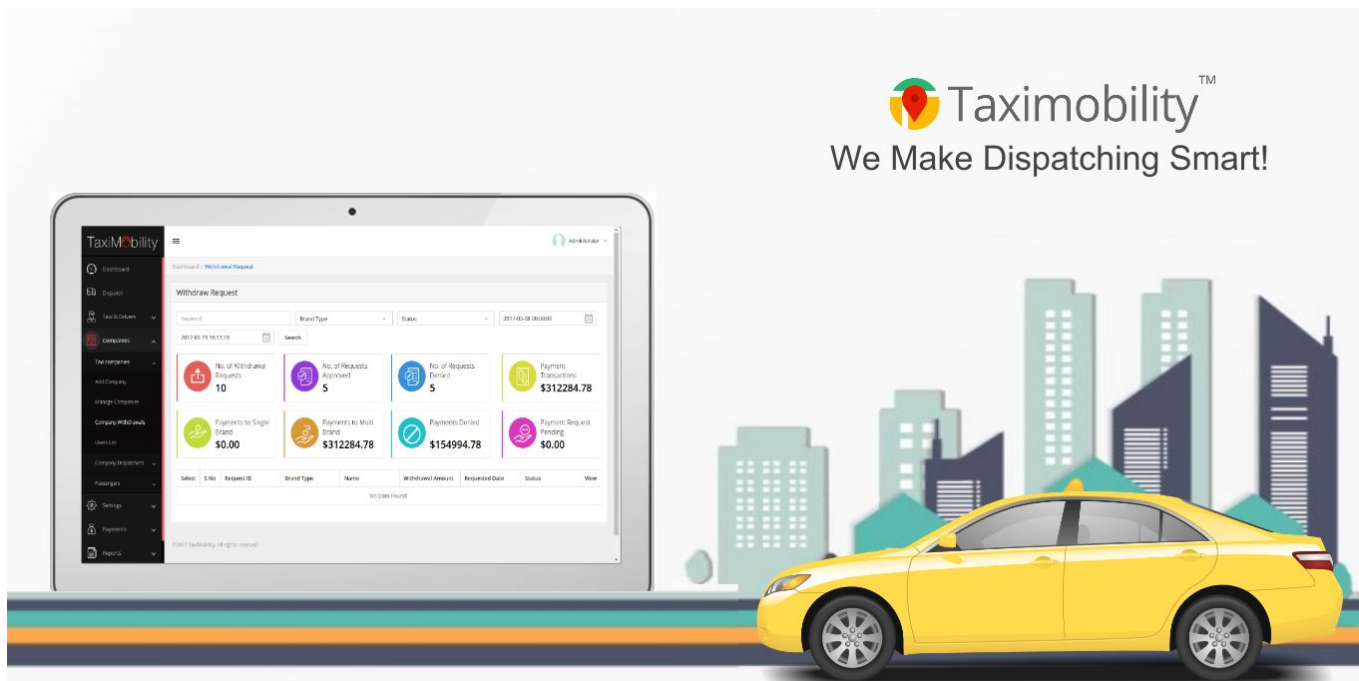
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TaxiMobility Workflow

TaxiMobility Tech Stack

Use Cases

Customer Dispatcher Administration Company Driver Partner

Application Layer

Android Web page Jquery XAMPP xampp

IOS Angular JS CSS Js php

Html5 Bootstrap Node Js

Network Layer

Google map PayPal 2checkout Amazon payment Authorize

PayU money Google Analytics Twilio Mailchimp

API SMS Gateway Google Ivr

Technology Layer

PHP PubNub Node js

System Layer

Mongo DB Angular js Apache Java

MySql Lamp Cloud platform Linux Windows

amazon Amazon Dynamodb

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Features of
Taxicab Hiring Apps

- On-page booking and cancellation process

- Automatic fare calculation

- ETA (taxi arrival) furnished beforehand based on distance

- Choice to select from a list of vehicle types and other facilities

- Set pick up / drop location

- Store upto 20 favourite destination addresses

- In-built push notifications for all bookings

- Multiple cab booking functionality for future dates

- Facility to provide feedback and rating on the taxi service and driver

- Availability to prepone, postpone or cancel a trip

- Accept/reject Jobs option for taxi drivers

- SMS confirmation on booking and cancellation

- A trip summary of the last three pickup and drop locations

Benefits of
Taxicab Hiring Apps

1. Convenience at its best

Taxicab hiring apps provide the opportunity for passengers to book cab rides instantly on the app by minimising the waiting time. The passengers can also book a taxi for a scheduled pickup thereby eliminating any chances of last minute chaos.

2. Complete control of your fleet

With a taxi dispatch software, taxi companies will be capable of efficiently monitoring their complete fleet of vehicles, track their movement, the rides completed and a detailed overview of the taxi activity.

3. Ease of taxi booking

Mobile applications are preferred by users for its ease of use. With a taxi mobile application, passengers receive the very essence of easy taxi booking.Apart from this, taxi apps allow passengers to cancel the request with just a click of a button.

4. Stay informed, stay connected

Taxicab hiring applications usually employ push notifications to keep the passengers on the loop, at all times. From receiving booking confirmation, driver details to estimated fare, the passengers are always kept informed.

5. Independence of driving choices

While taxicab hiring applications provide route suggestions through the satellite navigation, the drivers do have the freedom to choose the best route to reach the destination.

6. Payment flexibility

Taxi applications offer passengers the ease of payment with multiple payment options like credit card, debit card, cash and wallet payment. Also, the app provides the estimated fare for the ride during the time of booking.

TaxiMobility™

Our Products
E-hailing Mobile App from NDOT

Why choose us?

We are an established organization with **10+ years of experience, 1000+ customers** and **a 25D million turnover**.

NDOT designs and delivers enterprise mobility software as a service to organisations of various statures. NDOT provides the taxicab hiring application, TaxiMobility, that is compatible on Android, iPhone and Blackberry platforms using JSON format. **TaxiMobility** is a highly configurable and marvelously engineered taxi management solution that is designed for automated and simplified dispatch process. With uncompromising technology and wide compatibility, the application improves and optimizes all taxi business requirements.We explore the limitless possibilities of latest technologies to develop applications with user-friendly features following standard development methodologies.

NDOT has developed projects in taxi hiring mobile applications cost effectively using PHP, nodejs, MongoDB or Javascript development framework in Android or iOS mobile platforms. Standard development methods are followed by NDOT to develop flawless mobile apps for taxicab hiring. The application uses the GPS function effectively to locate taxis in and around the customer location. The estimated time of arrival of a taxi is also calculated and displayed in the application. The feedback on the taxi service or driver can be placed by the customer using the rating system.

The star rating system is useful to evaluate the service giving room for further improvement. Separate application is available for the end users and the taxi drivers. Information on each trip or location can be saved in the application. The status of a cab as available or unavailable is displayed. The payments are calculated automatically by the application and the users can pay using reliable payment gateway methods or either by card or cash. Advance booking facility is also included within the application. Users can always cancel the booking based on the time limit set by the admin. NDOT provides a complete and functional taxicab hiring application through TaxiMobility.

Highlights

1. Locate taxicab in and around the location
2. Choose vehicle types as preferred
3. Estimate the time of taxi arrival
4. Automatic fare estimation
5. Locate the distance from the taxi on map
6. Cancel / postpone / prepone booking at anytime
7. Advance booking facility
8. Pay using payment gateway, credit card or cash
9. Share feedback and rate the service on social media

TaxiMobility™

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