**+Web Development Workscope with Backend Admin Panel**

Project Kick off

* System requirements, Analysis & Discussion
* Architecture design, Database modeling
* User Interface (prototypes and design) Integration
* Device compatible
* Safe, efficient and secure
* Functional website
* Functional Backend Admin Panel

sCOPE OF APPLICATION (WEbsite)

**Brief Details :** As per requirement we have to develop web platform which allow bus ticketing online. It will follow reference link and will be fully functional solution. We will provide front end and backed Admin panel so system can manage easily.

**Reference Link:** [**https://www.udemy.com/course/mern-stack-bus-ticket-booking-app/**](https://www.udemy.com/course/mern-stack-bus-ticket-booking-app/)

As per reference link will have web portal which will have all features like reference.

**Web Platform Users:**

**1.Front End Customers:** Who looking for online bust ticket, they can see routes, time, bus service and book ticket online.

Login // Done

Register // Done

Forget Password // Done

Change Password // Done

Manage profile // Done

My Bookings // Done (upcoming\_Booking )

Online payment: Will use common payment of African – card, mobile money

Invoice

Track Bus // Done

See routes // Done (seeRoutes(allRoutes))

Different types of filters

Booking History // Done

Settings // Done (Manage Profile , change password , forget password , recive email Notification(book Ticket , cancleTicket and (push Notification on upcoming Trip) , Booking History , Change Trip , Login and logout , Register new user )

Notifications // Done (Email Notification(book Ticket , cancle Ticket ) , Push Notification (Upcoming Trip))

Others: As per reference and flow other things will be there.

**2.Backend Admin Panel:** Will manage Buses, Routes, Ticket price, Already payment received, Cancel Ticket, Dashboard, Stats, Reports etc.

Login // Done

Dashboard: Will have stats Total Buses, Total Routes, Total Locations, Total Payment, Total Bookings, Reports. // Done (Get All Buses (according to status) , Get All Routes, Get All Stops )

Change Profile // Done ( profileImage)

Change Password // Done

Manage Routes // Done (addRoute , editRoute , deleteRoute , getAllRoutes, addStop\_in\_Route , editStop\_in\_Route , addStopBeforeStop , deleteStop\_in\_Route)

Manage Buses // Done (addBus , editBus , deleteBus , getAllBus , getBus(by busId) )

Manage Stops // Done (createStop , deleteStop , getAllStop )

Manage Drivers // Done (addDriver , editDriver , deleteDriver,

getAllDriver , getDriver(by driveriD))

Manage Trips // Done (createTrip , searchTrip , changeTrip (selectUpcomingTrip\_for\_DateChange , changeTrip) , trackBus) )

Manage Tickets //Done (viewSeats , calculateFareForSelectedSeats , bookTicket , cancleTicket , userTickets )

Manage Bookings // Done (allBookings , countBookings(onDate) )

Manage Payments

Reports

Settings // Done (manage Bus , Manage Route , manage Stops , manage Trips , manage Drivers etc )

Notifications // Done

Others: As per flow other things will be in backend.

**Team Will Do Followings Common things:**

* **Design all pages**
* **Make website fast speed**
* **Make website SEO optimized**
* **Keep professional design of all pages and get approval.**
* **Meta Tag update on all pages**
* **Have to Mobile responsive all pages**
* **Keep optimized images not so big size**
* **Keep all pages contents aligns properly**
* **Use professional Font**
* **Keep Functional Website front end and Backend both**
* **Others: To make website smooth user Friendly team can take care of all basic things.**

**Technologies:**

**Programming – React , Node**

**Database: Mongo DB**

**Use the MERN stack**

**•Use microservices architecture an example in the below link:**

[**https://itnext.io/react-express-node-js-and-mongodb-mern-stack-microservices-based-application-deployment-on-ec4607cec74d**](https://itnext.io/react-express-node-js-and-mongodb-mern-stack-microservices-based-application-deployment-on-ec4607cec74d)

**•FE with toggle button for dark/light mode**

functional Admin panel

**Backend Admin Panel:**

There would be backend admin panel from where Admin can update all front end pages contents. Admin can add - image, text, links for all pages.

Languages

**Complete website would be in English , French and extendable in future**