Integrated E-Ticketing System

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Overview

The project involves creating a web based solution to provide an integrated environment for clients to search for and subsequently book airline, railway and bus tickets in Bangladesh. This site will allow clients to search based on dates, from and to locations. Data will be collected through web scraping since the airlines, railway and bus services do not offer any APIs (Application Programming Interface) to gather data on ticket availabilities. The system will allow user to register and as soon as they register an account with unique id is created in the system.

Justification

Currently, there are three major transport services are available – Airlines, Bangladesh Railway and Bus - offer individual online ticketing systems to search and book tickets. So, it is difficult for a client to search all these online ticket booking systems to get the desired ticket based on availabilities and price. An integrated environment where all three of these online systems can be searched for tickets and subsequently booking tickets from the same environment would be a beneficial solution.

Goals

1. Create a responsive web application where users can have a single interface to search for ticket availabilities for major three transport service in Bangladesh
2. Provide an easy interface for booking tickets for any of those transport services.

Specifications

1. Ticket search module will allow clients to search for tickets for airlines, railway and bus services.
 2. A booking module that will allow clients to book tickets from any transport service.
 3. A payment module to work with booking module to accept payments for tickets
4. An admin module to view reports on various activities such as total daily sales, total cancellations, or total number of ticket changes (dates or locations)
 5. All ticket data will be scraped from the following sites –

Project Duration

Project duration 25 weeks.

Project Start Date

 The project will start 6 February, 2021.

Milestones/Phases with cost

Phases	Description	Duration	Cost(BDT)
Phase 1	In this phase, the search module will be completed. Clients will be able to only search for available tickets of airlines, railways and bus from a single search page.	5 weeks	60,000
Phase 2	In this phase, booking will be able to search and book airlines, railways and bus tickets. They will be able to pay through bkash or credit cards.	10 weeks	90,000
Phase 3	This phase will involve developing the admin dashboard for generating reports, monitoring activities counting and so on.	10 weeks	1,00,000
	Total	25 weeks	2,50,000

Other Terms and Conditions

 1. The Advance payment becomes non-refundable after two weeks of the project initiation.
2. After the final delivery of the product (completion of all phases), the client will have a window of one (1) month to report any issues that may have been caused by the application programming. These issues will be fixed for free.
3. After the end of one month of free support period after final product delivery, any and all works requested by client will incur charges on the client based on negotiated pricing.

Agreement

On behalf of the product/service provider Mahdi Md Mohaimenul Islam Chief Technical Officer (CTO) Kaz Softwares	On behalf of the client seeking product/service Rakib Ahmed Chief Technical Officer (CTO) Kaz Softwares