

Introduction:

This is an integrated service which provides all information about the metro rail and its routes for public. The proposed system is a web-based application which provides information regarding timings, routes, fair. This system contains an online ticket module where users can buy ticket through their bKash or credit card payment system. There is also an admin module where admin can add stations, customers, reserve tickets, and also update and delete. The admin is a panel consisting of only one authorized person.

The planning of the project are as follows:

- ☐ Users can register through the site.
- ☐ User login page where users can buy tickets online.
- ☐ Users can view metro timetable.
- ☐ User can also view the details and the route map.
- ☐ An admin login page where admin can add stations, Category, price, update, delete etc.

The proposed system is designed to eliminate the disadvantages of the existing system. The proposed system “Automated Metro Rail Ticket Management System” is mentioned for tracing the problems in the existing system of Bangladesh.

The system ensures:

- ☐ Increases efficiency and reliability.
- ☐ Easier Access and easy to use.
- ☐ Provide accurate information to the user for taking necessary decisions.
- ☐ The information will be correct, accurate and unambiguous.
- ☐ Information can be collected, processed and communicated more quickly and efficiently.
- ☐ System ensure that right information reaches the right person at the right time.
Accessibility, Usability and Understandability.
- ☐ The options used can be easily accessed, used and realized.
The system can prevent Sql injection to some extent.

Major Challenges to develop this system:

- According to Bangladesh perspective, the system should be much easier to the users.
Database must be encrypted that information of travel history of a user is kept secure.
- Online payment system must be structured with proper instructions.
Process must be faster with no failure during confirming a transaction.

System requirements:

Non-functional requirements:

Efficiency requirement: When a metro rail management system will be implemented then the user can recharge and view metro information fast & easily.

Reliability requirement: The system should accurately perform recharge, show the details of metro such as fair, route maps.

Usability requirement: The system is designed for a user-friendly environment so that user and admin of metro rail can perform various tasks easily and in an effective way.

Functional requirements:

- System must be able to verify information.
- System must be able to store the information in database.
- System must be able to retrieve information when required by admin.
- User id is provided when they register.
- The user must be able to logout after they had finished a particular session
- System must allow the users to enter the source station and destination stations.
- System must be able to process information from database.
- The system must allow admin to add stations, category, price, availability and even add new users.
- The system should be designed in such a way that only authorized people should be allowed to access some particular modules.
- The records should be modified by only administrators and no one else.

System Configuration: -

Front End : HTML, CSS

Scripts : JavaScript.

Back-End : PHP.

