**ABSTRACT**

Indian Railway Catering and Tourism Corporation popularly known as **IRCTC** is an Indian public sector undertaking that provides ticketing, catering, and tourism services for the Indian Railways.

Our project **"IRCTC RAILWAY RESERVATION"** is a desktop based standalone application developed using java swings framework of JAVA. This project is an attempt to demonstrate the working of railway reservation process both from the admin and user view.

This project provides various functionalities to the user where he can create his own account or login through an existing account and search the desired trains according to plan of his/her travel. The user can also book the seats to confirm his travel in the Indian railways.

Other functionalities includes viewing his profile, view his previous bookings. Passengers travelling in the train are assigned a pnr number which is unique and find all the details of their journey by using the search pnr function. The user also receives a confirmation mail to his registered mail id after booking. All the details are stored in the database which is accessed dynamically every time to provide accurate information.

It also has admin where the admin is authenticated using both password and OTP sent to his registered mail providing two step verification. The admin can make major changes which includes adding a new train to the database.

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