**Intelligent Transport Management System**

Feasibility Study

Version <1.0>

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**1. Objectives**

The main objectives behind the development of this project are as follows:

**i.** To help transport staff in capturing the effort spent on their respective working

areas.

**ii.** To handle the details of vehicles and their enquiry.

**iii.** To handle the details of booking the sender and receiver details.

**iv.** To keep the information of charges given by client.

**v.** To generate the slip for a particular transaction.

**vi.** To prepare the bills of client.

**vii.** To keep the information of cities for which transport provide services.

**2. Predicate and Rules:**

**2.1 Predicates:**

* **journeyDetails** (DateOfJourney,Source,Destination,TimeOfDeparture ,TransportType)
* **transportType**(Bus,Train,Plane)
* **bus**(Name,Type,Number,Route)
* **train**(Name,Type,Number,Route)
* **plane**(Name,Type,Number,Route)
* **type**(AC,NonAC)
* **customerDetails**(Name,Address,MobileNumber,NumberOfTickets)

**2.2 Rules:**

**findTicket:-** This rule will check availability of tickets based on customer input.

**showTransportType:-** Show all the types of transport including bus ,train, plane.

**findBus:-** This rule will check availability of bus based on departure time, source, destination, departure date and ticket price.

**findTrain:-** This rule will check availability of train based on departure time, source, destination, departure date and ticket price.

**findPlane:-** This rule will check availability of plane based on departure time, source, destination, departure date and ticket price.

**Rule:**

* allBooks:- book(Book Title, Author Name, \_,\_,\_,\_), write(Book Title), write(Author Name),nl, fail.
* bookName(Book\_Name):- book(Book\_Title, Author\_Name, \_,\_,\_,\_),

BookName == Boo\_Title, write(Book\_Title), write(Author\_Name),fail.

* allAuthor:- author (Name, Age, Gender, Nationality, Specialty, Books, ISBN #), write(Name), write(Age), write(Gender),nl, fail.
* author(Author\_Name):- author (Name, Age, Gender, Nationality, Specialty, Books, ISBN #), Author\_Name == Name write(Name), write(Age), write(Gender),nl, fail.
* allPublisher:- publisher (Name, Owner, Affliction, Location, Books, ISBN #),

write(Name), write(Owner), write(Afflication),nl, fail.

* publisher(Publisher\_Name):- publisher (Name, Owner, Affliction, Location, Books, ISBN #), Name == Publisher\_Name write(Name), write(Owner), write(Afflication),nl, fail.
* allConten:- content (Book\_Title, Author Name, About, ISBN #,Content), write(Book\_Title), write(Author Name), nl, fail.
* content(Content\_Name):- content (Book Title, Author Name, About, ISBN #, Conten), Content\_Name == Content, write(Book\_Title), write(Author Name), nl, fail.
* allDepartment:- department (Book Title, Author Name, About, Content, ISBN #, Department), write(Book Title), write(Author Name),nl, fail.
* department(Department\_Name):- department (Book Title, Author Name, About, Content, ISBN #, Department), Department\_Name = Department, write(Book Title), write(Author Name),nl, fail.