**Be-InTouch**

**(Semester 5th of Third Year M.Sc. (CA & IT) (2016-2017))**

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CHAPTER: 1

INTRODUCTION

**(1.1)**

**Company Profile**

* Shreeji Travels is a Travelling company focuses on excellence in client satisfaction. Shreeji Travels provides its services to the Market since 25th January 1998. Our vision, mission and passion are to provide safe journey to the customers on which they ‘Discover their Connectedness’ with themselves, life partner, families, work mates as well as with the place they are visiting.
* Experience the omnipresent yet kaleidoscopic Connectedness in our ‘One World’ through ‘Togetherness’.
* **COMPANY NAME : - SHREEJI TRAVELS.**
* **OWNER NAME : - NILESH SHAH.**
* **COMPANY ADDRESS :** - **3, Ashirvad Complex,**

**Near Company** **Petrol Pump,**

**Dharnidhar Derasar Road,**

**Paldi, Ahmedabad-38007.**

* **E-mail :** - **shreejitravelsnr@yahoo.co.in.**
* **Contact No : - 9824541639.**

**(1.2)**

**Project Detail**

Transportation is imperative since it enables trade between people’s, which in turn establishes development. Bus or Car travel is one of the most widespread and suitable means of transportation in a few growing nations like India. People who can’t afford to travel by air and train opt for bus services in travelling.

Travelling has become a part of life and it’s a routine affair for business people either for urgent meeting, industrial trips or the passion to visit new places. With the advent in technology booking your bus tickets online has become popular and acts as a time-saving element.

**(1.2.1)**

**Current System**

Currently Shreeji travel handle their system manually.

The limitation of current working system is

* The Client/Customers must visit personally to the Company for Mini Bus Booking and Renting a Car.
* The company has to maintain the database manually hence, there is a chance of misplacing the data.
* Keeping the data for long period is difficult with the existence of the current system.

**(1.2.2)**

**Proposed System**

In today’s busy world, time is consider to be very precious thus, we will provide a **Digitalize Platform** for the customer who wants to book the mini buses and rent a car online. The customer is independent to search, select, book bus or car hence, there will be no misleading concept in our system. The data of customer will be store automatically into database. The data will be stored for long period. Our system will provide filters for easy search and picture gallery for enabling your convenience and comfort. Our system will serve the customer with online payment.

**(1.3)**

**Scope**

**Online Mini bus booking and Renting car.**

* **Easily get booked**
* **Online payment**
* **Reminder on booked date**
* **Search category wise**
* **Search filter wise**
* **Show past bookings**
* **Show Picture Gallery**
* **Manage own profile**

**(1.4)**

**Objective**

Our System will provide the Platform to the Customer who wants to Book mini bus or Rent a Car Online. For e.g. A person name Mr. X wants to rent a car for his grandparents, He can easily visit to our Website and rent the car of his choice and he can also book mini bus. The main Advantage is that you can book online from anywhere and at any time e.g. Home, Office.

* **Admin Module**

Admin of the system can manage schedule i.e.

* Admin of the system can delete users.
* Admin of the system can update schedule.
* Admin of the system can search user details, bus details and car details.
* Admin of the system can manage payments and offers.
* **User Module**

A user can:

* A user can Book the mini bus online and also Rent a Car.
* A user can select Types of Buses (AC, NON-AC).
* A user can visit to picture gallery to choose the car and mini bus according to their comfortness.
* A user can apply filters to search bus and car.
* A user can do online payment.
* A user can cancel the booking.
* A user can send their feedbacks.

**`** Chapter 2

Requirement gathering

**(2.1)**

**Objectives of the stakeholders**

The following stakeholders for our system are:

* **Admin**
* **Users**
  + Admin
* He is the whole and sole authority of the system who has all the rights regarding to the system.
* He can update the schedule, delete the user.
* He can create the offers for customer.
* Users
* A user is a customer who makes bond with the system and take benefit of the services provided by the system.
* A user is a customer who can book the mini bus or rent a car online.
* A user does payment.
* A user does cancellation of booking.
* A user can give feedback for the system.

**(2.2)**

**Requirement gathering techniques: -**

**List of requirement gathering Techniques: -**

1. **Conduct a brainstorming session**
2. **Interview users**
3. **Send questionnaires**
4. **Work in the target environment**
5. **Study analogous systems**
6. **Examine suggestions and problem reports**
7. **Talk to support teams**
8. **Study improvements made by users**
9. **Look at unintended uses**
10. **Conduct workshops**
11. **Demonstrate prototypes to stakeholders**

**Techniques used: -**

Interview: - An interview is a conversation where questions are asked and answers are given. In common parlance, the word "interview" refers to a one-on-one conversation with one person acting in the role of the interviewer and the other in the role of the interviewee.

Interview technique is suitable for Admin because Admin is the only whole and sole authority of this system and we need to take requirements from only one person. Interview is best way of knowing requirements where less number of people is concern. We can get specific answers in interview and we understand admin requirements properly.

For the Admin interview is prepared by including certain questions.

* What do you prefer? systematically access or database access?
* By which manner you want to delete the data? logically delete or physically delete?
* Which method you like for confirmation? SMS or Email?
* How you want to search any data in admin module? Filters or categorize?
* There should be deduction in Amount when customer cancel the booking? yes or no?

**Questionnaire: -**  A questionnaire is a research instrument consisting of a series of questions and other prompts for gathering information from respondents.

Questionnaireis used to collect large amount of information from many people in a shortperiod and in a relatively cost effective way. That’s why we used questionnaires for user module.

For the users the following questionnaire form is prepared.

| 1. Which method do you want to use for selecting car or bus to travel? | | | |
| --- | --- | --- | --- |
| * **Filter** | * **Categorize** | | * **Both** |
| 2. Which method do you want to use for searching schedule of buses and cars? | | | |
| * **Filter** | * **Categorize** | | * **Both** |
| 3. Do you want a picture gallery which showcase all the available cars? | | | |
| * **Yes** | | * **No** | |
| 4. Which confirmation method you prefer? | | | |
| * **SMS** | | * **E-mail** | |
| 5. How do you want to rent a car? | | | |
| * **Driver** | | * **Without driver** | |
| 6. Through which networking site would you like to login? | | | |
| * **Facebook** | | * **Signup manually** | |
| 7. Which method you prefer to do online payment? | | | |
| * **Credit card** | | * **Debit card** | |

**(2.3)**

**List of Requirements: -**

Our Website has no such kind of special requirements to run and operate this website and functionality.

* User wants Dropdown for login, updating their profile etc.
* There should be different types of categories for showcasing car images, information etc. e g. Picture gallery.
* Payment method should be online. It will be comfortable for User and Admin as well.
* Online payment method should have all the kinds of payment gathering like debit card, credit card.
* If User cancels his booking the amount he paid should be returned to his account.
* Users want Feedback form.
* Users wants Email method for the confirmation and reminder of booking.

**(2.4)**

**Project Definition:**

Our Project is to book mini bus and rent a car online where One can check all the mini buses and rent a car of their choice. So, our Websites creates a Digitalize platform for the users who can book mini bus or rent a car online from anywhere and at any time.

# Chapter 3

# Project management and planning

## **(3.1)**

## **Feasibility study**

The main aim of the feasibility study is to determine that it would be financially and technically feasible to develop the product or not. The purpose of feasibility study is not to solve the problem, but to determine whether the problem is worth solving.

### **(3.1.1)**

### **Technical feasibility**

The technical feasibility study compares the level of technology available in the software development firm and the level of technology required for the development of the product. Here the level of technology consists of the programming language, the hardware resources, Other software tools etc.

In this system, technical feasibility was ensured on in the following factors:

* The facility to produce outputs in a given time.
* Response time under certain conditions.
* Facility to communicate data to distant locations.
* It just requires window operating system and normal browser to use our system.
* The organisation has already purchased required gadgets.

Hence, the proposed system is technically feasible.

### **(3.1.2)**

### **Operational feasibility**

Operational feasibility study tests the operational scope of the software to be developed. It is checked that if the system is actually can be useful when implemented.

Our system is operationally feasible in the following ways:

1. Since the employees are well educated and knows the importance of computer in day to day life, they have shown the positive response to our system.
2. The system does not have specific hardware/software requirements. Any user will be able to use this website on its **comprehensive** desktop.

### **(3.1.3)**

### **Economical feasibility**

The economic feasibility study evaluates the cost of the software development against the ultimate income or benefits gets from the developed system. There must be scopes for profit after the successful Completion of the project.

The system is economical feasible because:

* Our system is not much costly to develop.
* There is no extra economical cost because system is develop with an open source technology.
* It is easy to use and understand therefor there is no need to appoint any operator to use the system.
* Organisation is ready to invest in proposed system because it is being developed in latest technology and will be very fast for the users to transfer or share the information using the system.

|  |  |
| --- | --- |
| Hardware Requirements | |
| Processor | Intel P4 and higher and/or equivalent processor system. |
| Hard disk | 40 GB or above. |
| RAM | 512 MB and above. |

## **(3.2)**

## **Hardware and Software Requirement**

|  |  |
| --- | --- |
| Software Requirements | |
| Platform | * PHP |
| Frontend | * Sublime or * Visual studio code |
| Back end | * My SQL |
| Tools | * JQuery |
| Web Service | * JSON |

## **(3.3)**

## **Project Planning**

**(3.3.1)**

**Project breakdown structure**

**(3.3.2)**

**Gantt Chart**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Activities** | **July** | **Aug** | **Sep** | **Oct** | **Nov** |  |
| Project Scope |  |  |  |  |  |  |
| Research |  |  |  |  |  |  |
| Requirement Gathering |  |  |  |  |  |  |
| Analysis |  |  |  |  |  |  |
| Designing |  |  |  |  |  |  |

## **(3.4)**

## **Process Model**

We would be following the *Incremental Model* because the nature of this system as the requirements are not concrete. Many features can be added after the development of the system that serves the main purpose. The hardware we use is a little costly for prototyping so we go iteration by iteration and develop the final product.

*Incremental Model*

* This model is more flexible – less costly to change scope and requirements.
* It is easier to test and debug during a smaller iteration.
* In this model customer can respond to each built.
* Lowers initial delivery cost.
* Easier to manage risk because risky pieces are identified and handled during it’d iteration.

# Incremental Model

# Chapter - 4

# Analysis & Design

**(4.1) UML Diagrams**

## **(4.1.1)**

## **Use Case**

**Admin**



**(4.1.2)**

**User**



**(4.1.3)**

**Activity Diagram**

**User**



**Admin** 

**(4.1.4)**

**State Diagram**

**User**

1. **State Booking**



1. **State cancel**



1. **Admin**



**(4.1.5)**

**Class Diagram**



**(4.1.6)**

**Sequence Diagram**

**User**



**Admin**



**(4.1.7)**

**Deployment**

**(4.2) System data Flow**



**(4.3)**

**Data Dictionary**

Table Name : - User Table

Primary Key : - email\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| email\_id | varchar | 35 | Primary Key |
| name | varchar | 15 | Not Null |
| mobile\_num | long int |  | Not Null |
| gender | varchar | 6 | Not Null |
| fk\_city | int |  | Foreign key |
| password | varchar | 15 | Not Null |
| photo | varchar | 200 | Not Null |
| type | varchar | 6 | Not Null |
| date | date |  | Not Null |
| notification | varchar | 10 | Not Null |

Table Name : - Bus Table

Primary Key : - bus\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| bus\_id | int |  | Primary Key |
| bus\_name | varchar | 15 | Not Null |
| bus\_img | varchar | 200 | Not Null |
| capacity | int |  | Not Null |
| bus\_num | varchar | 15 | Not Null |
| fk\_facility\_id | int |  | Foreign key |
| bus\_detail | varchar | 30 | Not Null |
| fk\_driver\_id | int |  | Foreign key |

Table Name : - Bus Customer Table

Primary Key : - cust\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| cust\_id | int |  | Primary Key |
| bus\_name | varchar | 15 | Not Null |
| Date | date |  | Not Null |
| return\_date | date |  | Null |
| amount | int |  | Not Null |
| fk\_bus\_id | int |  | Foreign Key |
| Source | varchar | 20 | Not Null |
| Destination | varchar | 20 | Not Null |
| Address | varchar | 25 | Not Null |
| total\_person | int |  | Not Null |
| Status | varchar | 8 | Not Null |
| starting\_km | double |  | Not Null |
| ending\_km | double |  | Not Null |
| fk\_email\_id | varchar | 35 | Foreign Key |
| bus\_num | varchar | 12 | Not Null |
| mobile\_num | varchar | 13 | Not Null |

Table Name :- Payment Table

Primary Key : - pay\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| pay\_id | Int |  | Primary Key |
| card\_num | Int |  | Not null |
| amount | Int |  | Not null |
| card\_name | varchar | 15 | Not null |
| card\_type | varchar | 15 | Not null |
| cvv | Int |  | Not null |
| fk\_email\_id | varchar | 35 | Foreign key |
| Date | date |  | Not Null |
| Status | varchar | 8 | Not Null |

Table Name : - Driver Table

Primary Key : - driver\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| driver\_id | int |  | Primary Key |
| Name | varchar | 15 | Not Null |
| mobile\_num | long int |  | Not Null |

Table Name : - Car Type Table

Primary Key : - type\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| type\_id | int |  | Primary Key |
| t\_name | varchar | 15 | Not Null |

Table Name : - Car Table

Primary Key : - car\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| car\_id | int |  | Primary Key |
| car\_name | varchar | 15 | Not Null |
| fk\_type\_id | int |  | Foreign key |
| car\_image\_1 | varchar | 200 | Not Null |
| car\_details | varchar | 70 | Not Null |
| car\_num | varchar | 20 | Not null |
| capacity | int |  | Not Null |
| fk\_driver\_id | int |  | Foreign key |

Table Name : - Car Customer Table

Primary Key : - cust\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| cust\_id | Int |  | Primary Key |
| source | varchar | 20 | Not Null |
| destination | varchar | 20 | Not Null |
| car\_name | varchar | 20 | Not Null |
| Amount | int |  | Not Null |
| Date | date |  | Not Null |
| return\_date | date |  | Null |
| license\_image | varchar | 200 | Not Null |
| with\_driver | varchar | 10 | Not Null |
| Statused | varchar | 12 | Not Null |
| starting\_km | double |  | Not Null |
| ending\_km | double |  | Not Null |
| fk\_email\_id | varchar | 35 | Foreign key |
| address | Varchar | 30 | Not Null |
| fk\_car\_id | int |  | Foreign key |
| total\_person | int |  | Not Null |
| mobile\_num | varchar | 13 | Not Null |
| Car\_num | varchar | 12 | Not Null |

Table Name : - Cancel Table

Primary Key : - cancel\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| cancel\_id | int |  | Primary Key |
| fk\_email\_id | varchar | 35 | Foreign key |
| cancel\_date | date |  | Not Null |
| refund\_amount | Int |  | Not Null |

Table Name : - Feedback Table

Primary Key : - f\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| f\_id | Int |  | Primary Key |
| mobile\_num | varchar | 13 | Not Null |
| description | varchar | 100 | Not Null |
| date | date |  | Not Null |
| fk\_email\_id | varchar | 35 | Foreign key |
| Notification | varchar | 10 | Not Null |

Table Name : - City Table

Primary Key : - f\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| city\_id | int |  | Primary Key |
| city\_name | varchar | 15 | Not Null |

Table Name : - Facility Table

Primary Key : - f\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| facility\_id | int |  | Primary Key |
| facility\_name | varchar | 15 | Not Null |

Table Name : - Gallery Table

Primary Key : - f\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| pic\_id | Int |  | Primary Key |
| pic1 | Varchar | 200 | Not Null |
| pic2 | Varchar | 200 | Not Null |
| pic3 | Varchar | 200 | Not Null |

Table Name : - Slider Table

Primary Key : - f\_id

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Data type | Size | Constraint |
| place\_id | Int |  | Primary Key |
| place\_name | Varchar | 30 | Not Null |
| place\_img | Varchar | 200 | Not Null |

**(4.4)**

**(4.5) System Navigation**



Chapter-5

Summary

## **(5.1)**

## **Assumptions**

* The customer should have the basic knowledge about computer.
* The customer should have Internet facilities.

## 

## **(5.2)**

## **Limitations**

* Desktop will be required to use this system.
* Without Internet facilities, the customer can’t use the system.
* If the customer doesn’t have the basic knowledge about computer, then it will be difficult for them to use this system.

.

## **(5.3)**

## **Conclusion**

This system will be helpful in booking mini bus and renting car online effectively. It will reduce wastage of time for the customer who have to visit personally to the company for booking. These factors will lead to customer’s comfortness and satisfaction. With the implementation of this project concept of Digitalization can come to reality.

## 

## **(5.4)**

## **Future Scope**

* More different types of offers such as Discount coupons will be provided to the customers based on booking records.
* Paytm facility will be added for online payments.

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