Mini Project Report on

TOURISM MANAGEMENT SYSTEM

B. E. Computer Engineering

Submitted By

Shruti Sureshan (162113)

Under the guidance of
Ms. Ditixa Mehta

Department of Computer Engineering
St. Francis Institute of Technology
University of Mumbai
2019-2020

ABSTRACT

Tourism Management System is an integrated software developed for tour operating companies. The main aim of this project is to help the tourism companies to manage their customers, vehicles, and agents. It makes all operations of the tour company easy and accurate. The standalone platform makes tourism management easy by handing agencies requests and providing servers for the customers located in different parts of the various cities. Different modules have been incorporated into this project to handle different roles and sectors of the tour management field. The objective is to develop a system that automates the process and activities of a travel agency and customer details. The purpose is to design a system using which one can perform all operations related to travelling and sightseeing. This system connects customers and agents directly through the internet, saves data, provides a feedback mechanism for tourists, maintains and controls the database of tourists' information, and gives a variety of travel services that will sure to match all your priorities.

TABLE OF CONTENTS

LIST OF FIGURES

Chapter 1

Introduction

The process of building systems has always been complex with system becoming larger, the costs and complexities get multiplied. So, the need for better methods for developing systems is widely recognized to be effective and the applied model should meet a few basic requirements.

- The model should be structured and cover the entire system development process from feasibility study to programming, testing and implementation.
- The model should utilize established methods and techniques like database designs, normalizations and structured programming techniques.
- The model should consist of building blocks, which define tasks, results and interfaces.
- Documentation should be a direct result of the development work and should be concise, precise and as non-redundant as possible.

Tourism Management system is a dynamic website for tourism business. It is a dynamic and responsive web design and it addresses the challenges of managing the records, missing records due to human errors, etc. It is also a travel technology solution for agencies and tour operations. Nearly everyone goes on a vacation for this tourism management system, which plays a vital role in planning the perfect trip. The tourism management system allows the user of the system to access all the details such as location, events, etc. The primary purpose is to help tourism companies to manage customers and hotels etc. The system can also be used for both professional and business trips. The proposed method maintains a centralized repository to make necessary travel arrangements and to retrieve information quickly.

1.1 Project objective

Travel Management System is a web-based application for travel agencies. The main objective of this project is to create a fast, practical, and reliable working platform to develop a communication system between customers and the agency. In the existing order, the user needs to visit the travel agency office to plan any tour. It involves a lot of manual paperwork, and customers need to stay in the queue for a long time. In order to address this issue, the whole system of management requires being automated using technology. The proposed web-

based project on travel management is a solution to the existing problems regarding cruise management in various travel agencies. The user only needs to find information about the available tours and packages. It also assists in the promotion of tourism by providing information regarding different places. Thus, it is beneficial for both travel management agencies and customers.

1.2 Need of the project

The present systems are inadequate in providing information and advice to the agencies and customers about tour plans. Often agencies are compelled to rely on local information sources and count on their own experience regarding time and cost. Through a phone call, they have to get information. There are some problems which exist in traditional systems, and those are given as follows:

- There will be many users visiting the portal, and hence we require a reliable and robust frontend that can withhold the users on our site.
- We need a secure database, whereas data will be a store of everyone.

Thus, online Tourism Management System has the following advantages over the traditional system:

1) Privacy and Confidentiality
2) The system is very effective during emergency conditions.
3) It saves time and efforts.
4) Easy updation of records

1.3 Features

Listed below are the critical features of the Tourism Management System:

- **Cloud Technology:** Tourism Management System incorporates cloud based back end web design that can achieve in storing large storehouses of data.

- **Programming language:** The proposed project has been coded in web languages with database connectivity.

- **Security:** The system is entirely password protected. Only authorized users can get access.
- **Flexibility:** The project has been designed in such a way that new features and modules can be added into the system in the future as per user requirements.
- **Reliable:** Besides offering dynamically generated tours, various tour packages have also been included. This system also suggests travel plans and best deals based on users' preferences.
- **Time-Saving:** The customers need not visit the travel agency office to purchase any tour package. One can access the travel management office from anywhere on the web.
- **Self-documenting:-** All the information about the customers along with the date of journey and return, tour destination, package, rooms, and various other related things are added to the database automatically by the software itself.
- Feedback and other general features have also been added.

The various requirements of the system can be summarized as:-

- **Signup:** New users give their completed personal details, address, email and phone number for registration.
- **Login:** The user enters their username and password for login.
- **Holiday packages:** User can then enter the date of journey and return; they can also select the packages, number of rooms etc. and can choose the packages as Delux, Premium, Superdeluxe.
- **Best deals:** User can get the best deals with discount prices based on their preferences available during festival season.
- **Feedback:** The users can give their input.
- **About us:** The user can get information about the travel agency
- **Contact us:** It displays the contact details.

Chapter 2

System Implementation Design

2.1 Input design

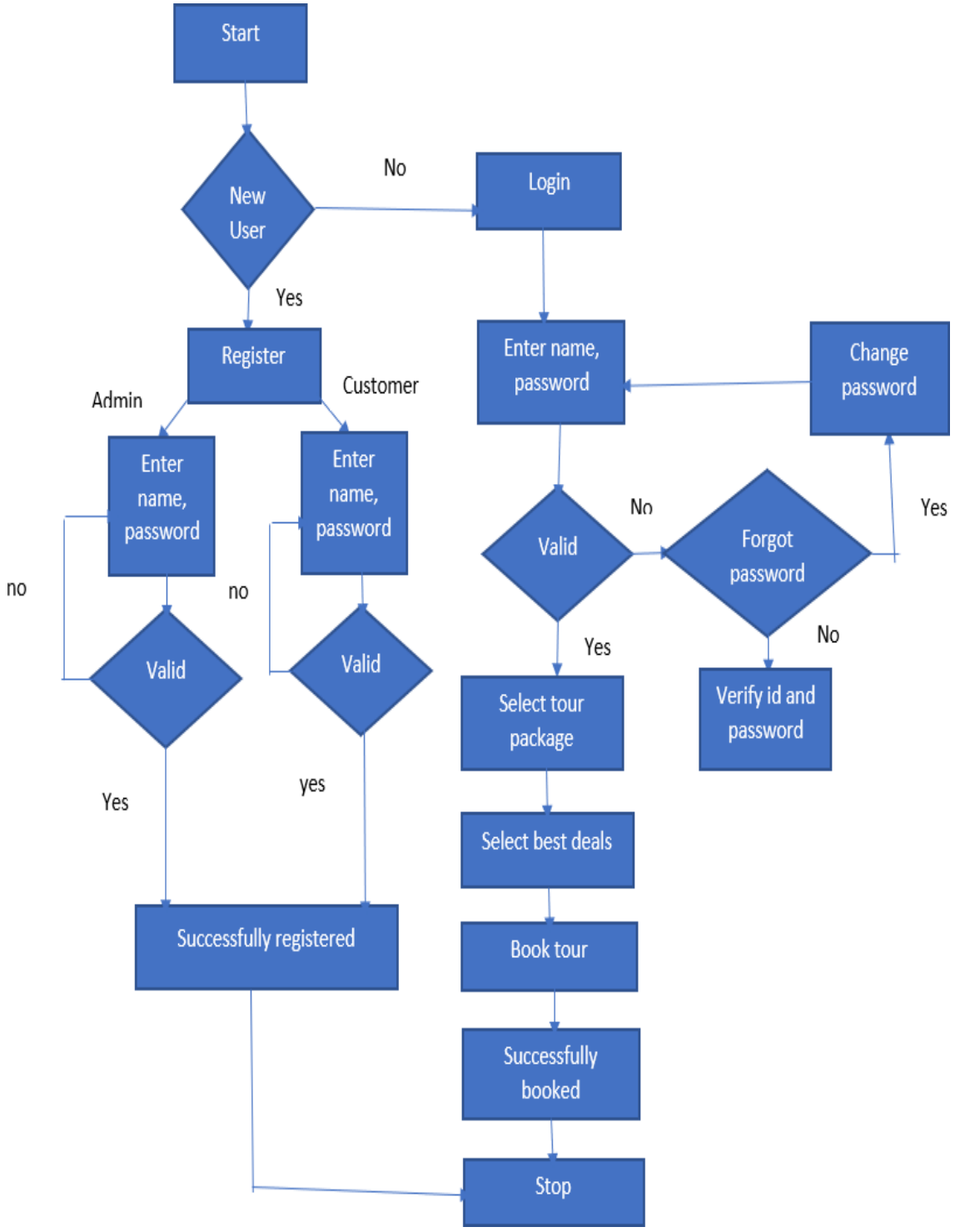

Fig. 1: Flowchart

2.2 Technology Used

1) Amazon Relational Database Service-

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need. You can use the AWS Database Migration Service to easily migrate or replicate your existing databases to Amazon RDS.

Amazon RDS is available on several database instance types - optimized for memory, performance or I/O - and provides you with six familiar database engines to choose from, including

1) Amazon Aurora
2) PostgreSQL
3) MySQL
4) MariaDB
5) Oracle Database
6) SQL Server

MySQL database engine in Amazon RDS MySQL is the world's most popular open source relational database and Amazon RDS makes it easy to set up, operate, and scale MySQL deployments in the cloud. With Amazon RDS, you can deploy scalable MySQL servers in minutes with cost-efficient and resizable hardware capacity. Amazon RDS for MySQL frees you up to focus on application development by managing time-consuming database administration tasks including backups, software patching, monitoring, scaling and replication. Amazon RDS supports MySQL Community Edition versions 5.5, 5.6, 5.7, and 8.0 which means that the code, applications, and tools you already use today can be used with Amazon RDS.

2) MySQL Workbench-

MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modelling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more. MySQL Workbench is available on Windows, Linux and Mac OS X.

Design

MySQL Workbench enables a DBA, developer, or data architect to visually design, model, generate, and manage databases. It includes everything a data modeler needs for creating complex ER models, forward and reverse engineering, and also delivers key features for performing difficult change management and documentation tasks that normally require much time and effort.

Develop

MySQL Workbench delivers visual tools for creating, executing, and optimizing SQL queries. The SQL Editor provides color syntax highlighting, auto-complete, reuse of SQL snippets, and execution history of SQL. The Database Connections Panel enables developers to easily manage standard database connections, including MySQL Fabric. The Object Browser provides instant access to database schema and objects.

Administer

MySQL Workbench provides a visual console to easily administer MySQL environments and gain better visibility into databases. Developers and DBAs can use the visual tools for configuring servers, administering users, performing backup and recovery, inspecting audit data, and viewing database health.

Visual Performance Dashboard

MySQL Workbench provides a suite of tools to improve the performance of MySQL applications. DBAs can quickly view key performance indicators using the Performance Dashboard. Performance Reports provide easy identification and access to IO hotspots, high cost SQL statements, and more. Plus, with 1 click, developers can see where to optimize their query with the improved and easy to use Visual Explain Plan.

Database Migration

MySQL Workbench now provides a complete, easy to use solution for migrating Microsoft SQL Server, Microsoft Access, Sybase ASE, PostreSQL, and other RDBMS tables, objects and data to MySQL. Developers and DBAs can quickly and easily convert existing applications to run on MySQL both on Windows and other platforms. Migration also supports migrating from earlier versions of MySQL to the latest releases.

2.3 Output design

Fig. 2: Home Page

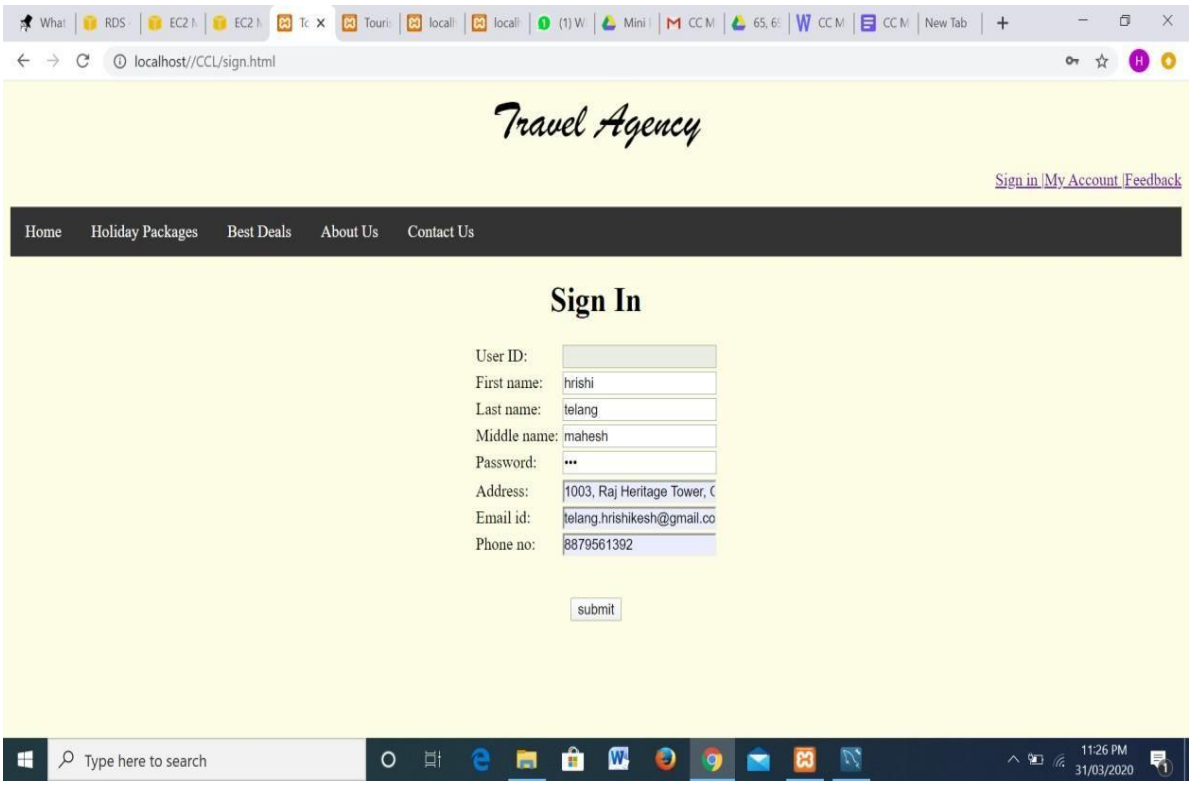

Fig. 3: Sign In

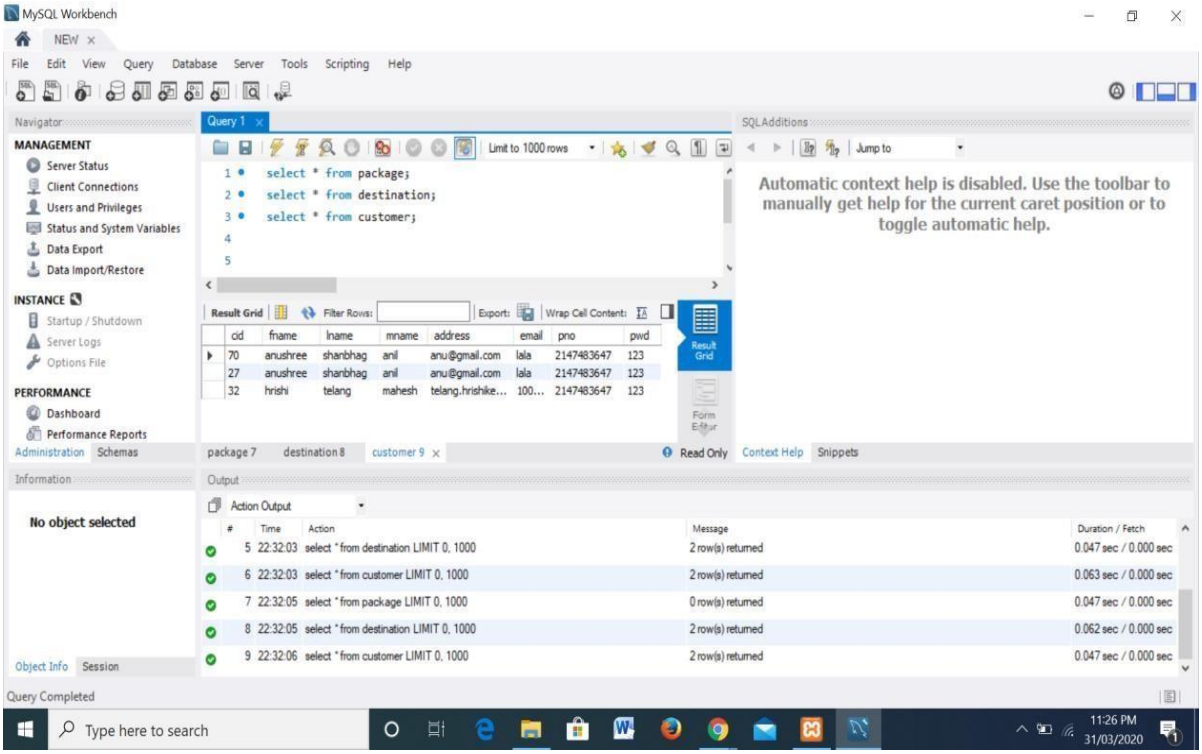

Fig. 4: Insertion

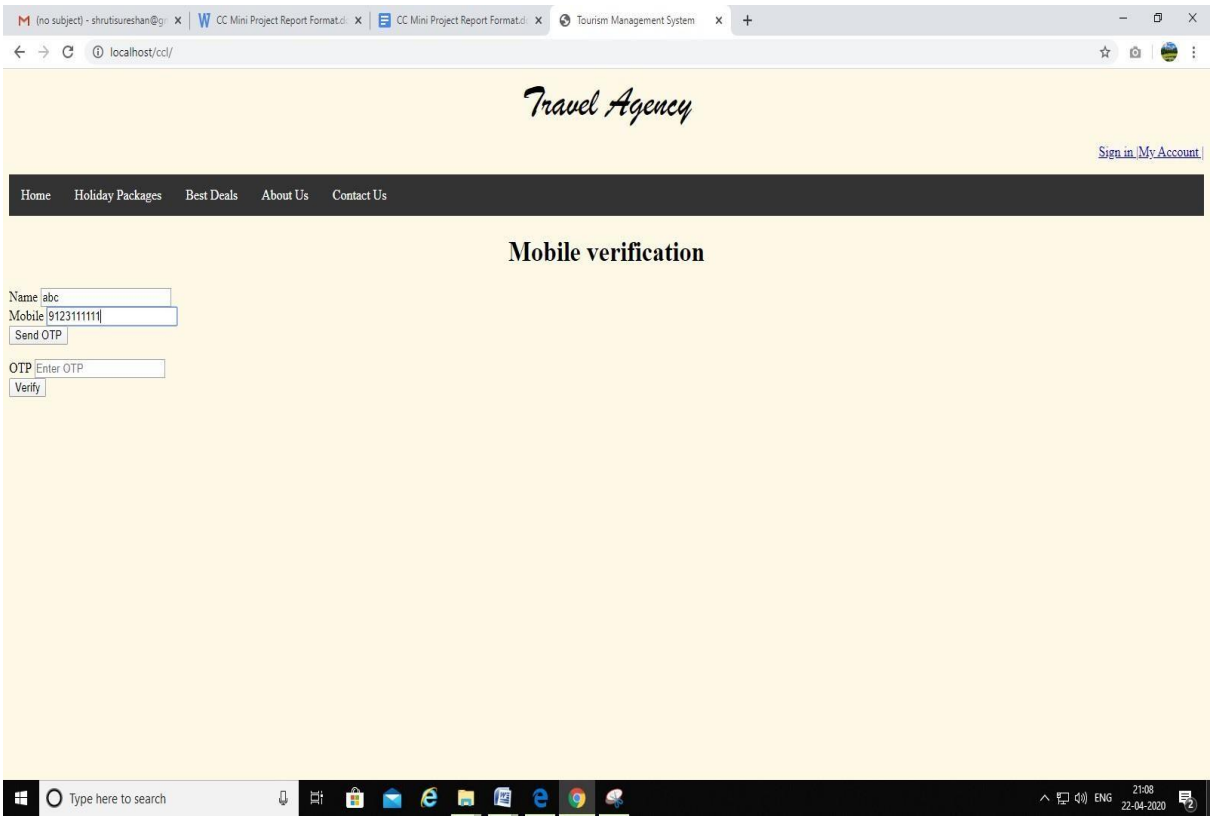

Fig. 5: Mobile Verification

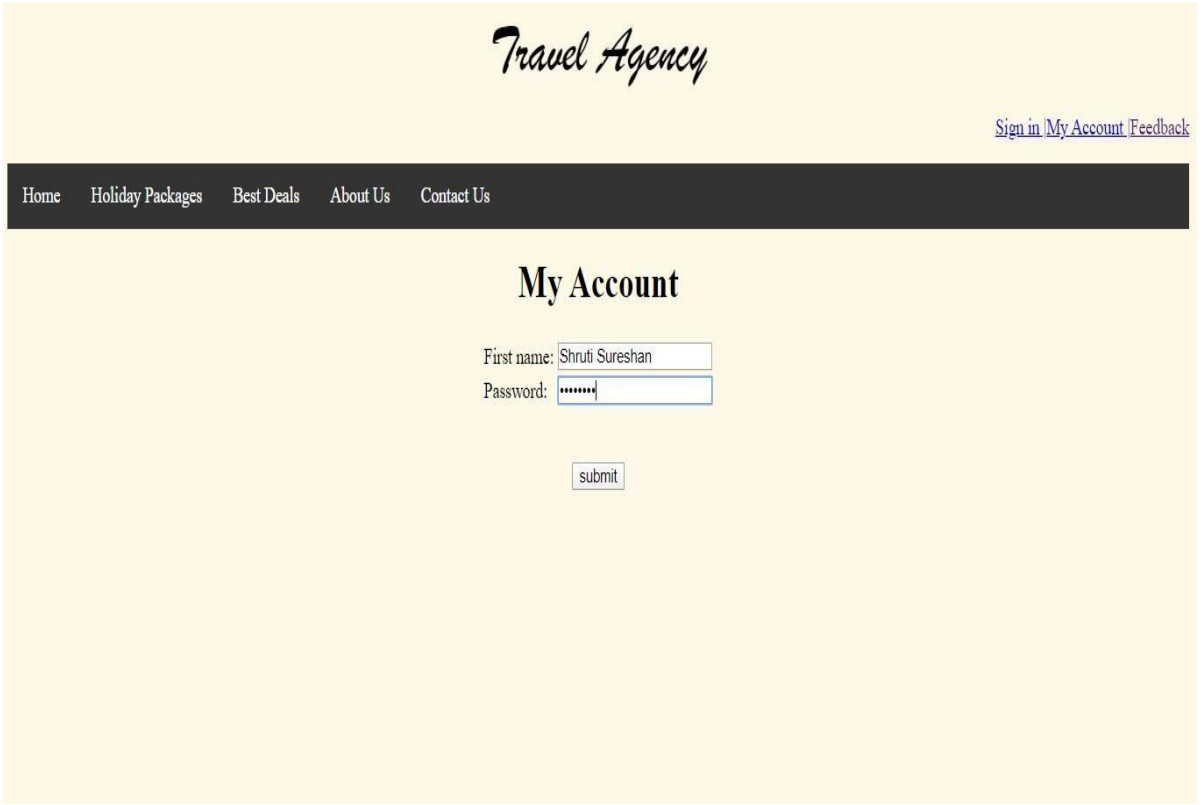

Fig. 6: Login

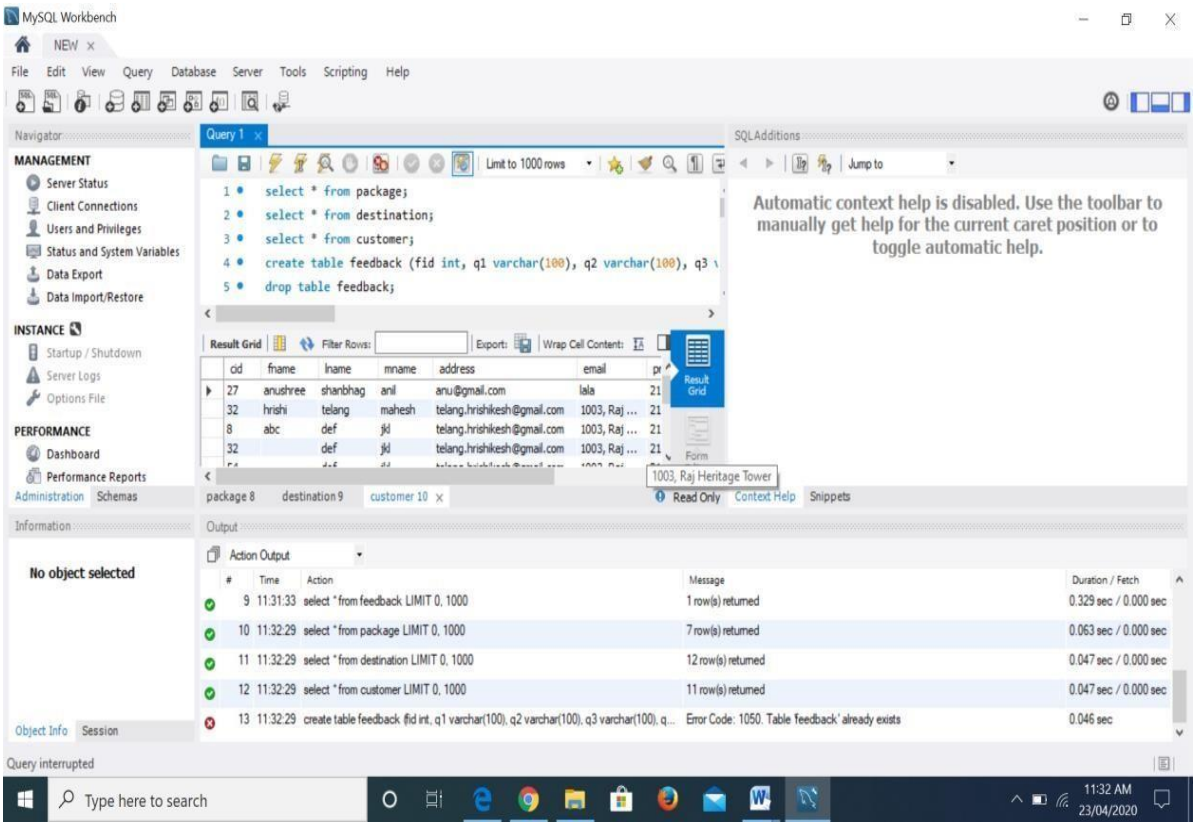

Fig. 7: Entry of login in MySQL Workbench

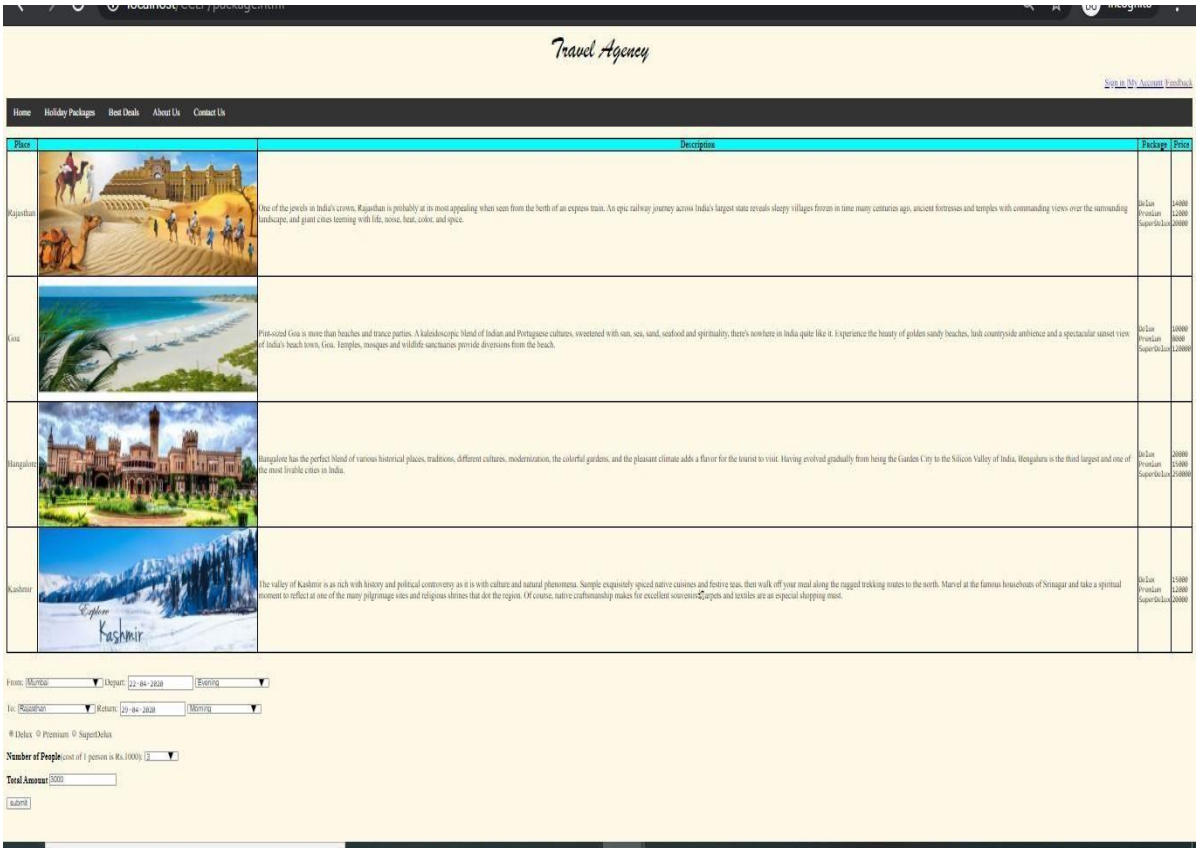

Fig. 8: Package

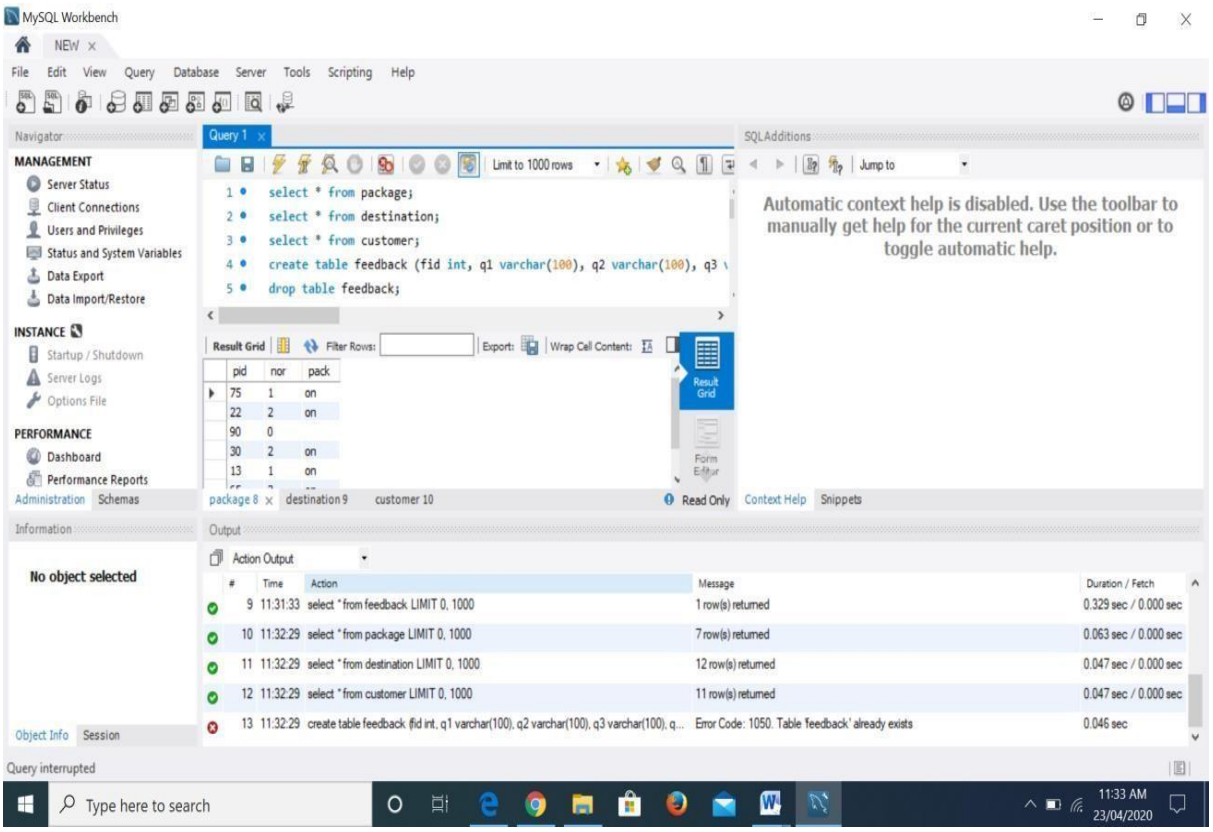

Fig. 9: Entry of package in MySQL Workbench

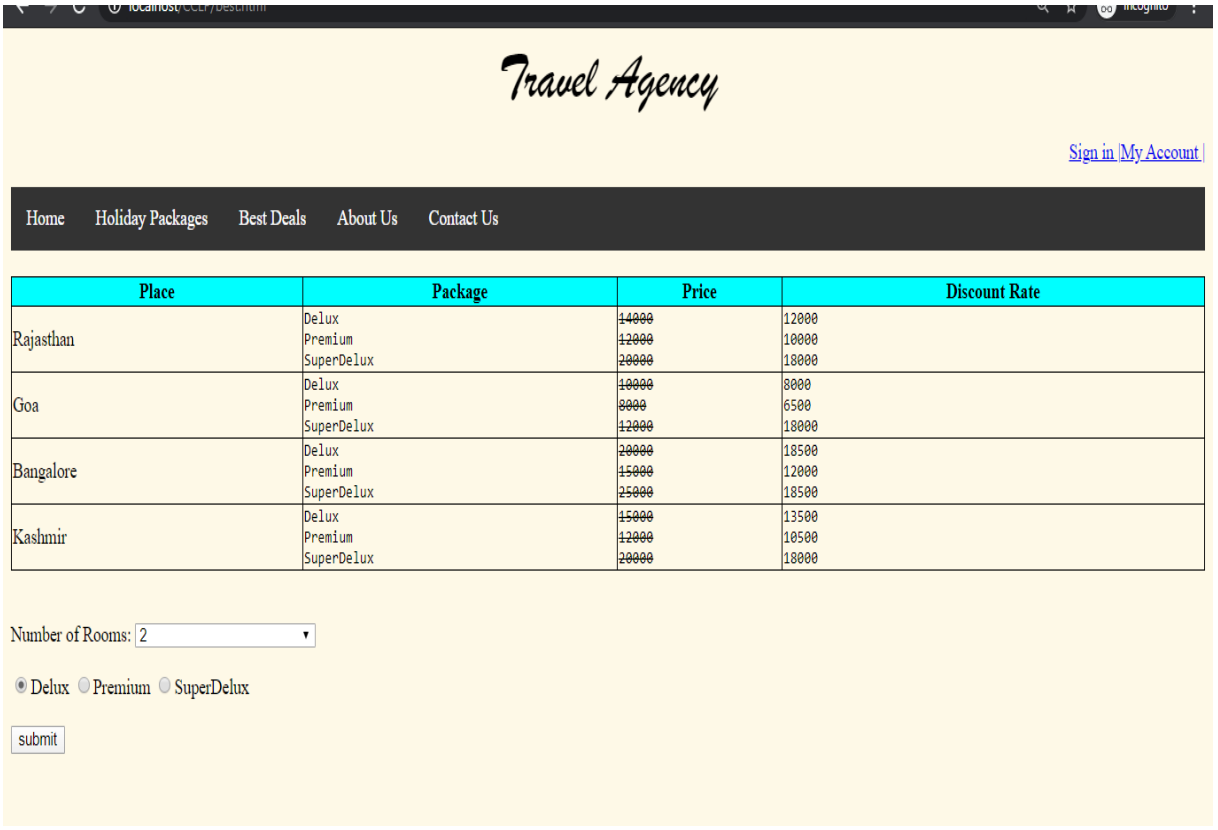

Fig. 10: Best Deals

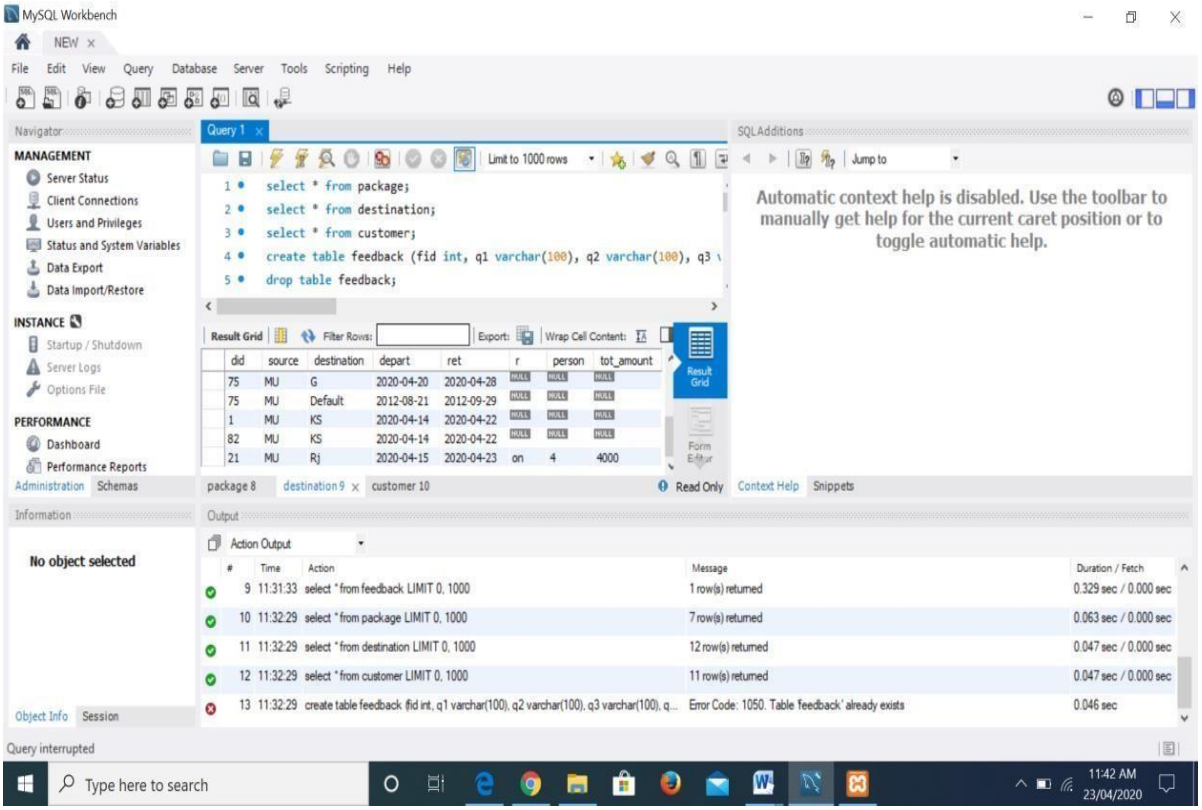

Fig. 11: Entry of Best Deals in MySQL Workbench

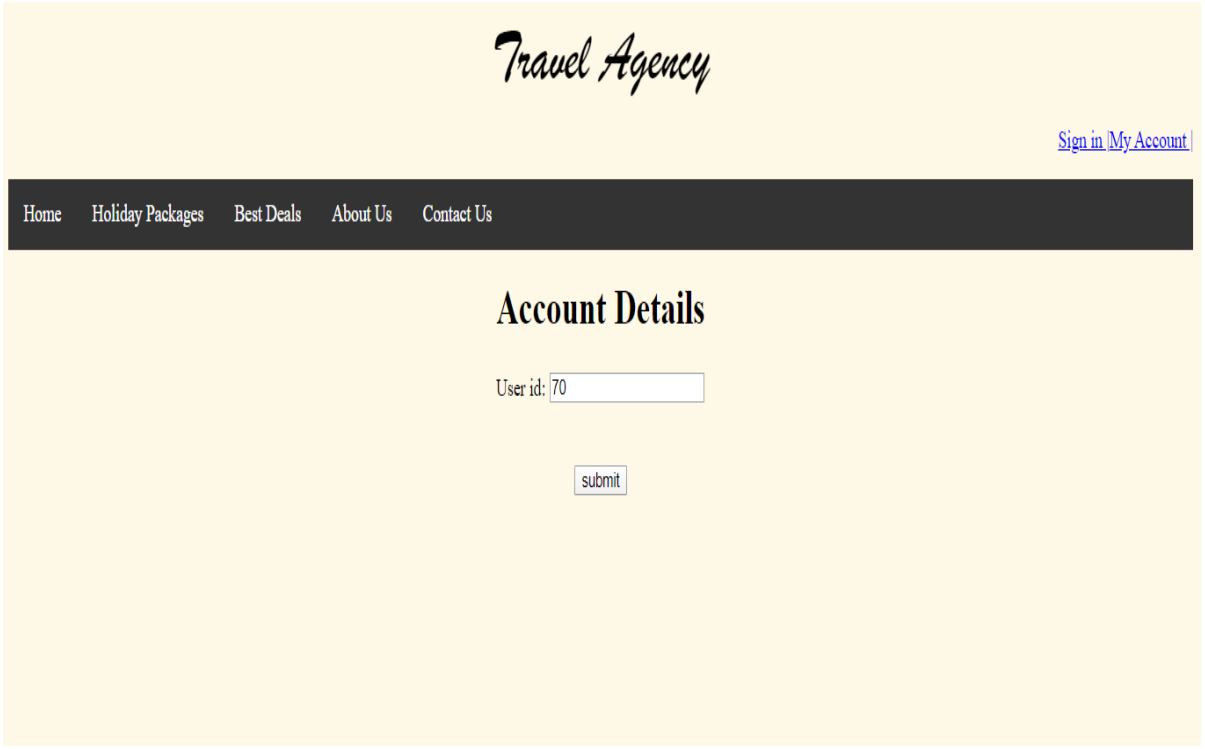

Fig. 12: Account Details

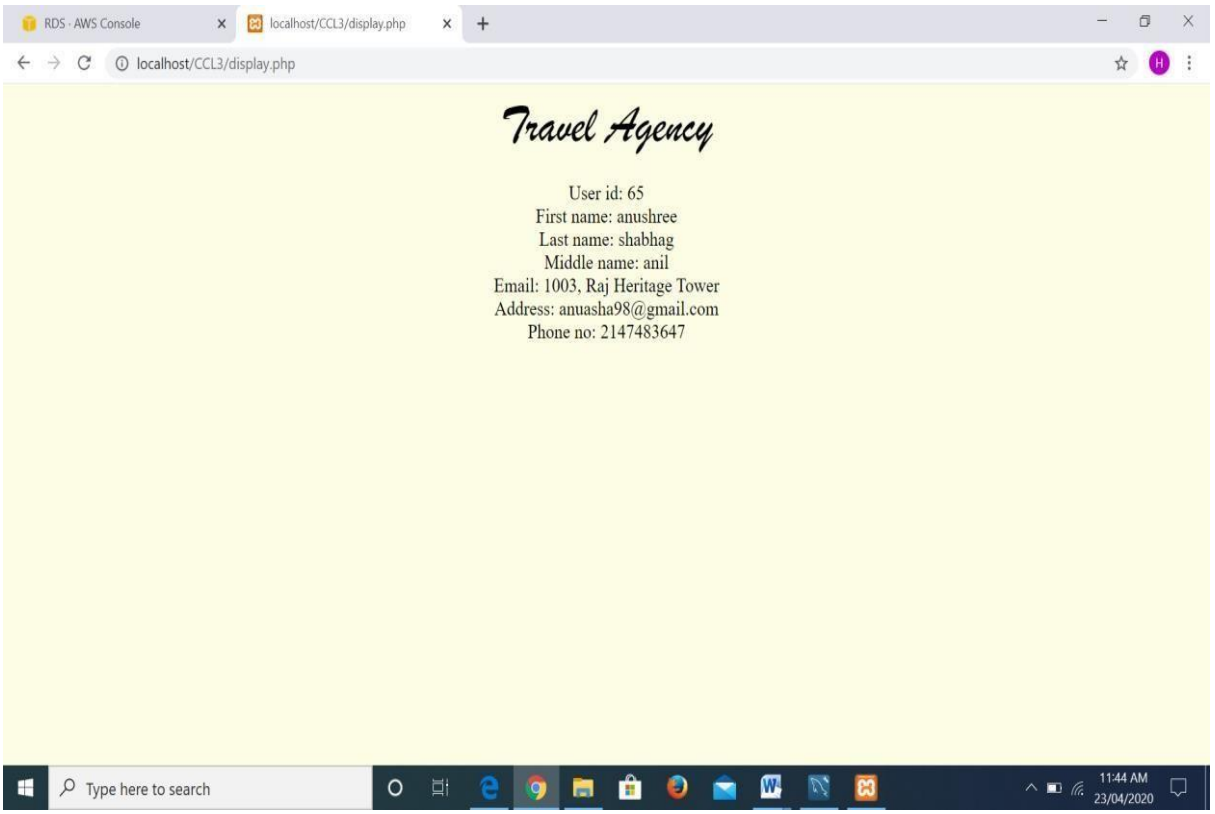

Fig. 13: Display of Account Details

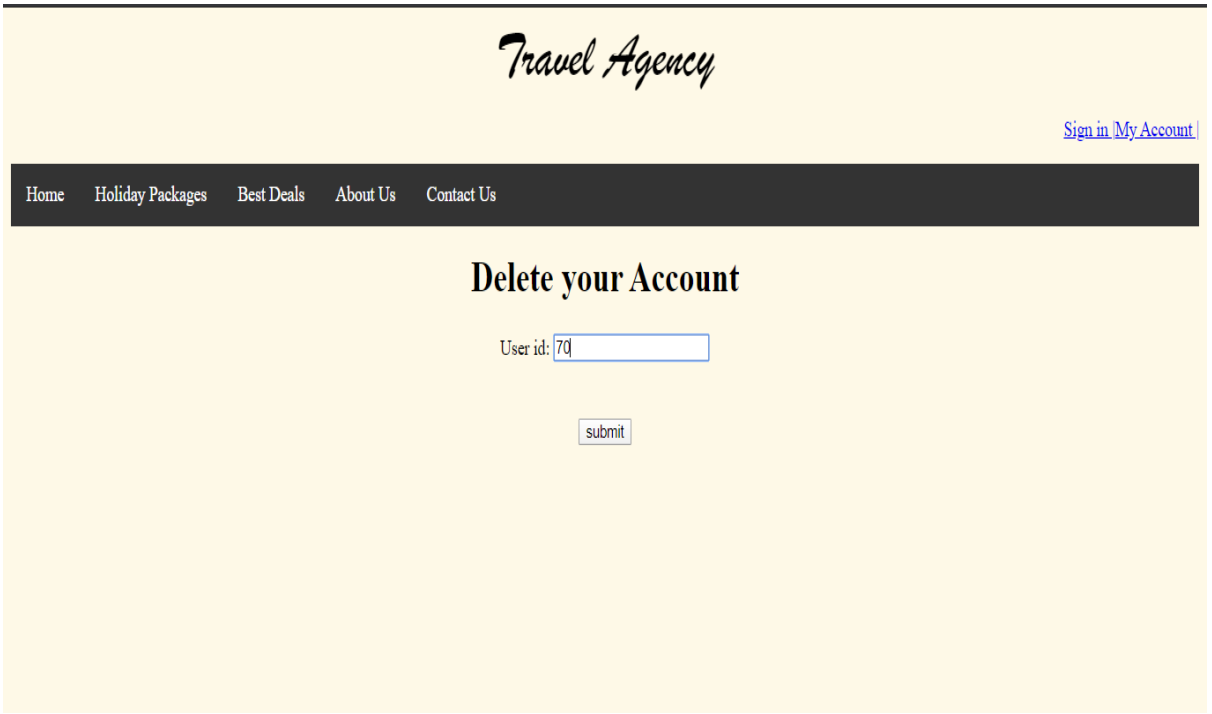

Fig. 14: Delete Account

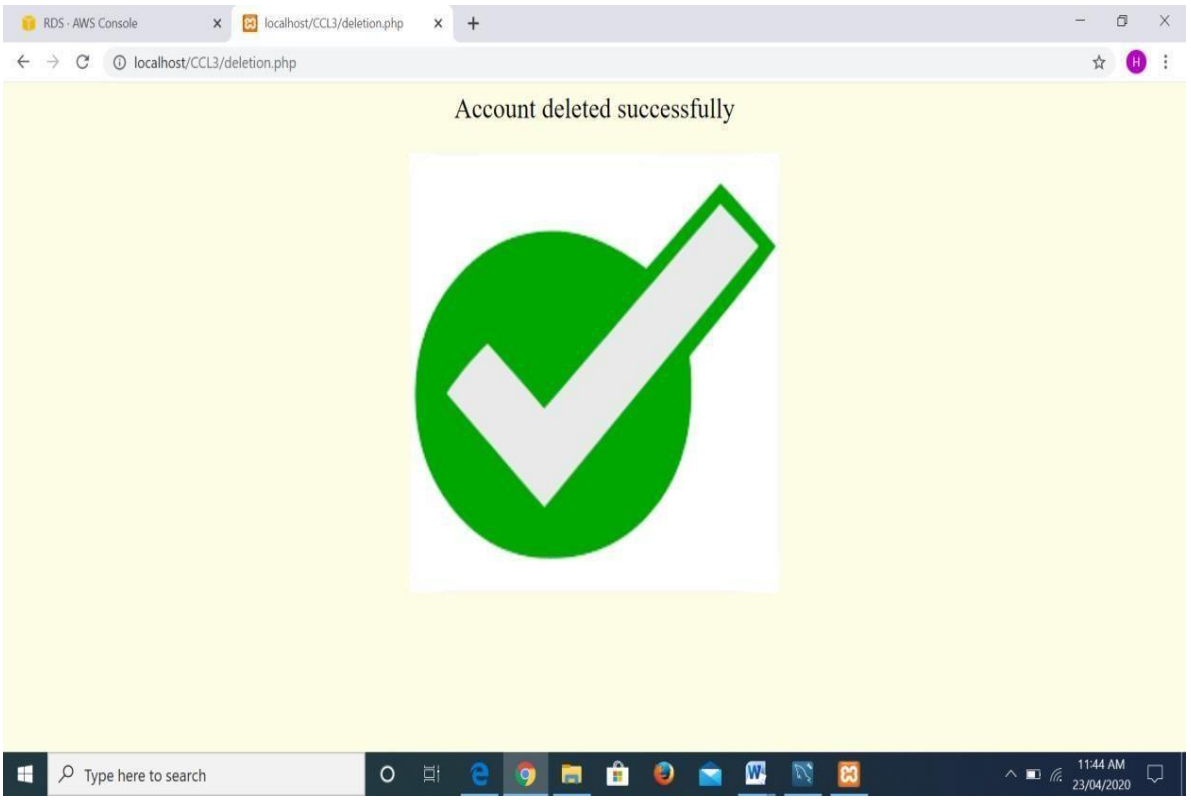

Fig. 15: Account deleted successfully

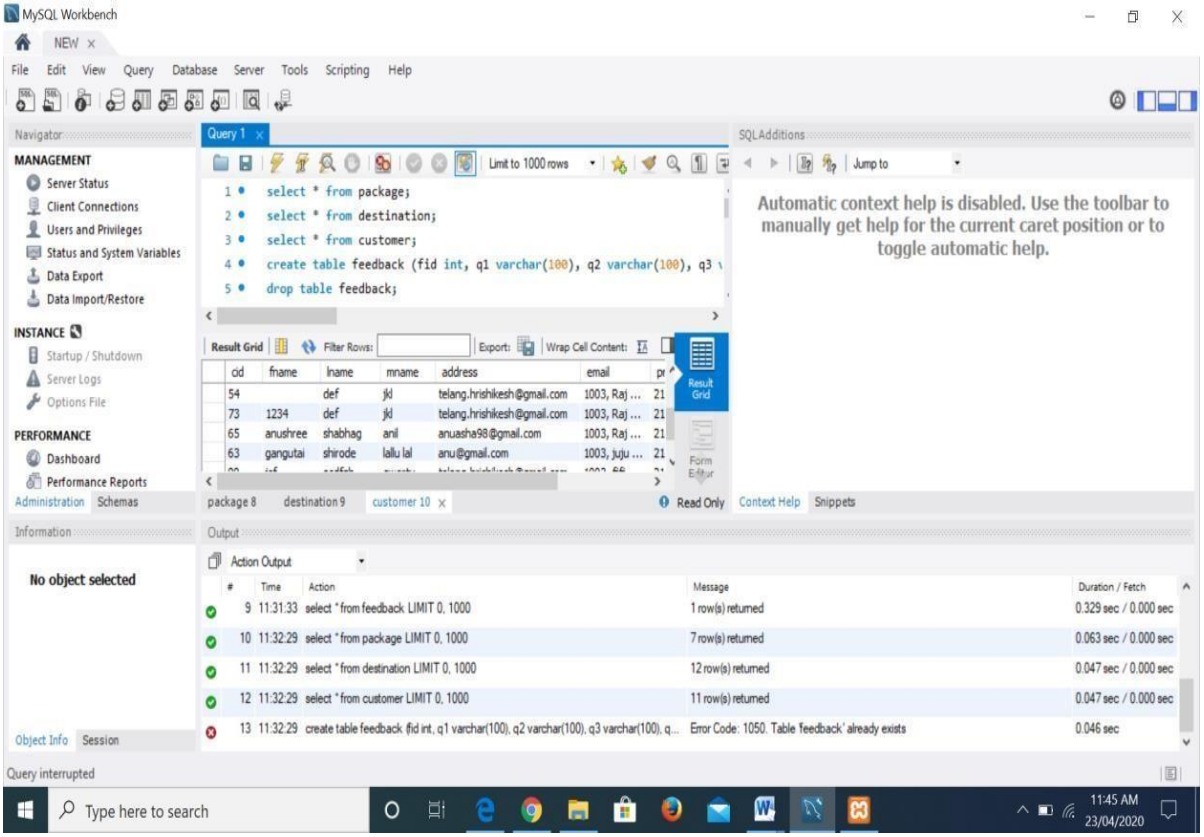

Fig. 16: Account Deleted

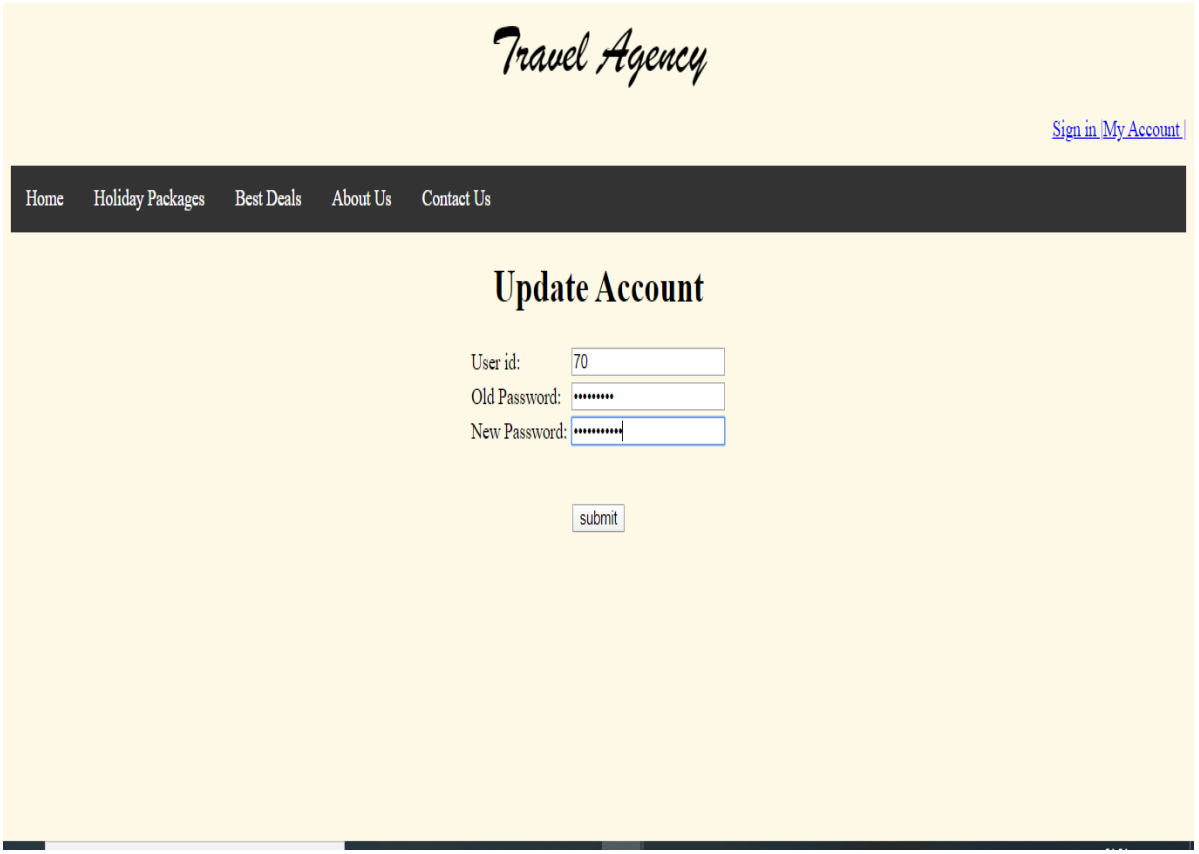

Fig. 17: Update Account

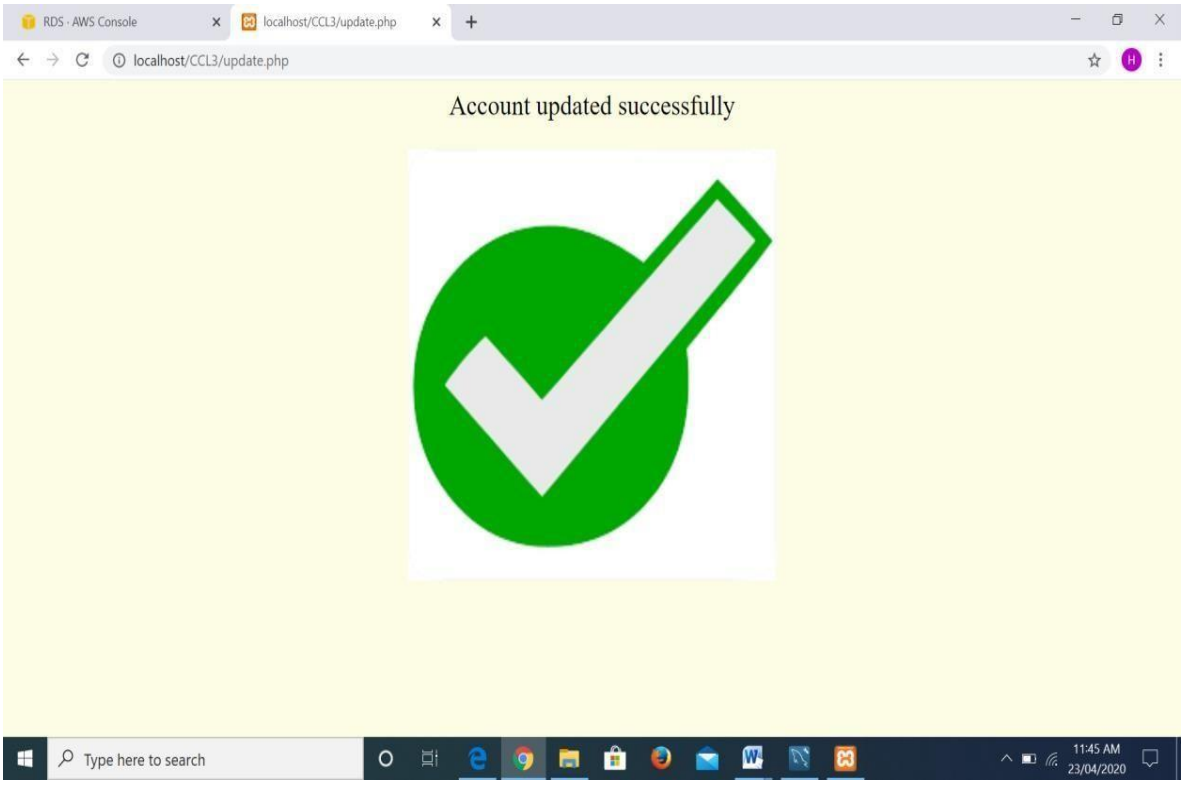

Fig. 18: Account updated successfully

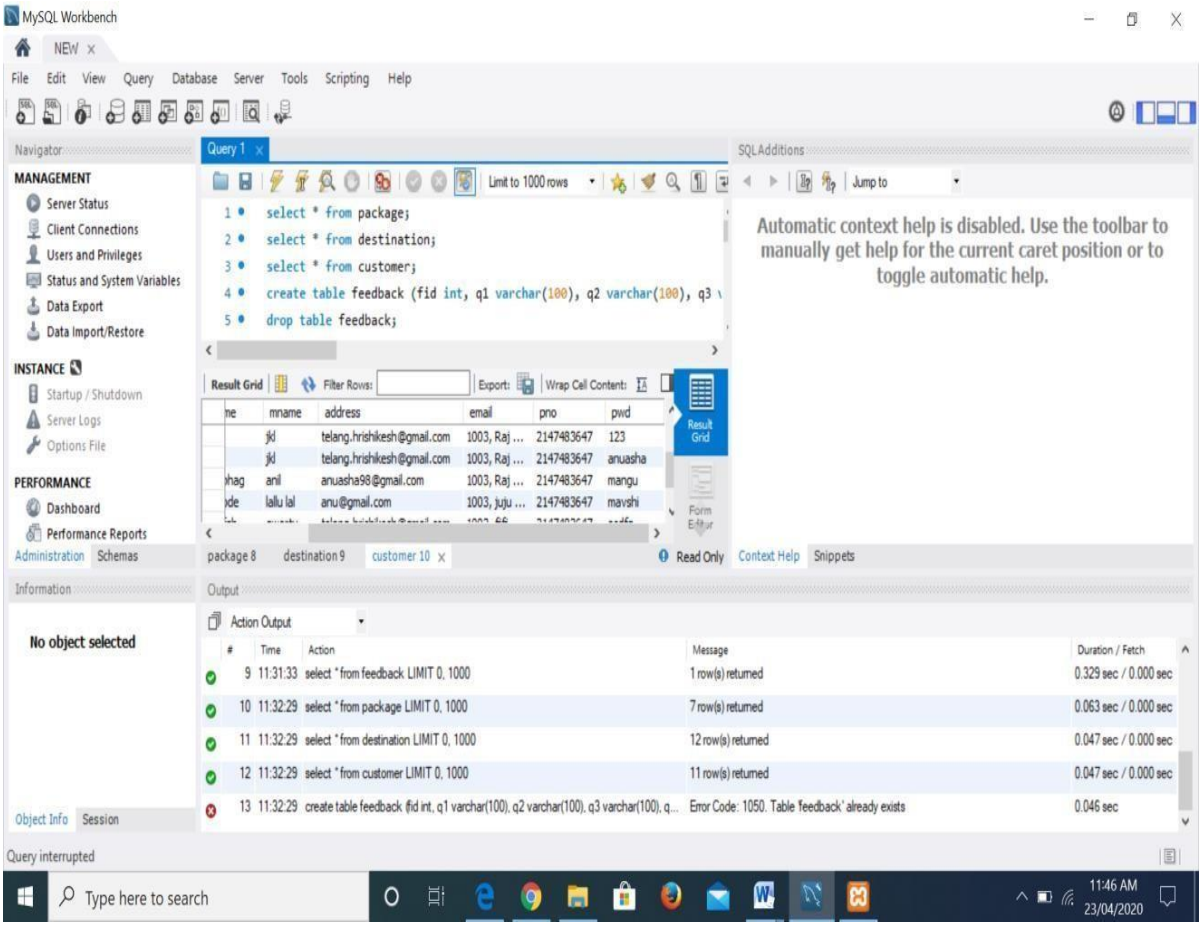

Fig. 19: Account Updated

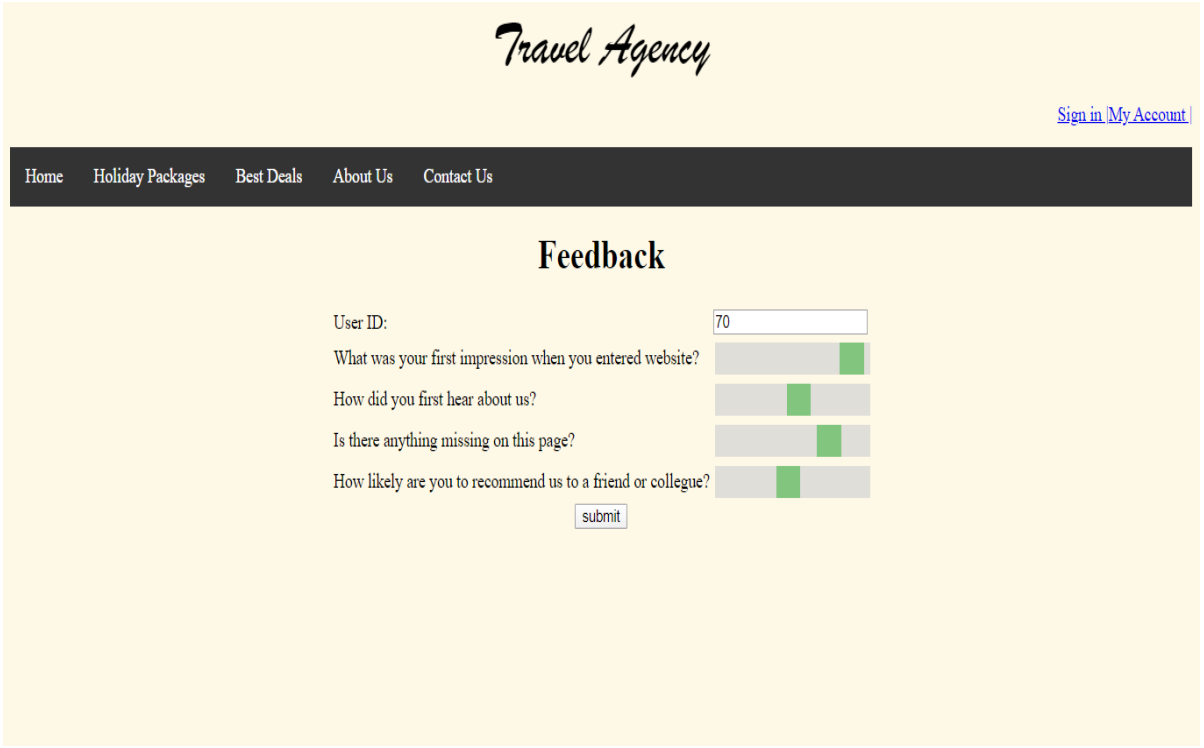

Fig. 20: Feedback

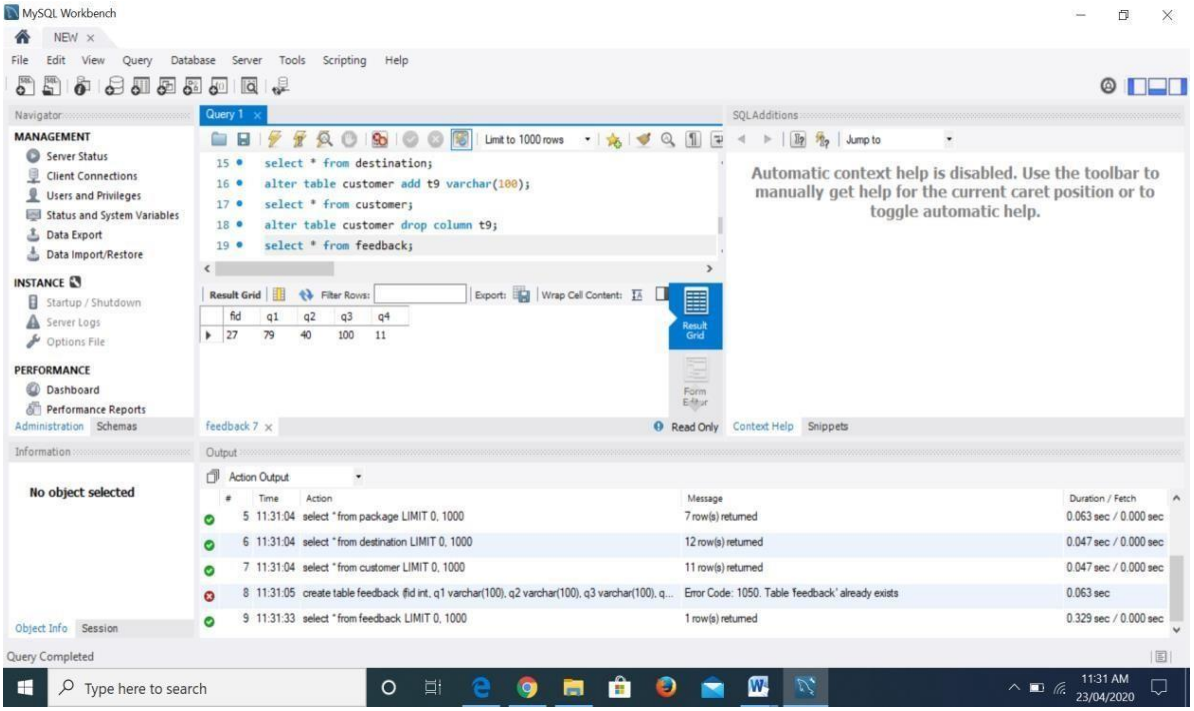

Fig. 21: Feedback Recorded

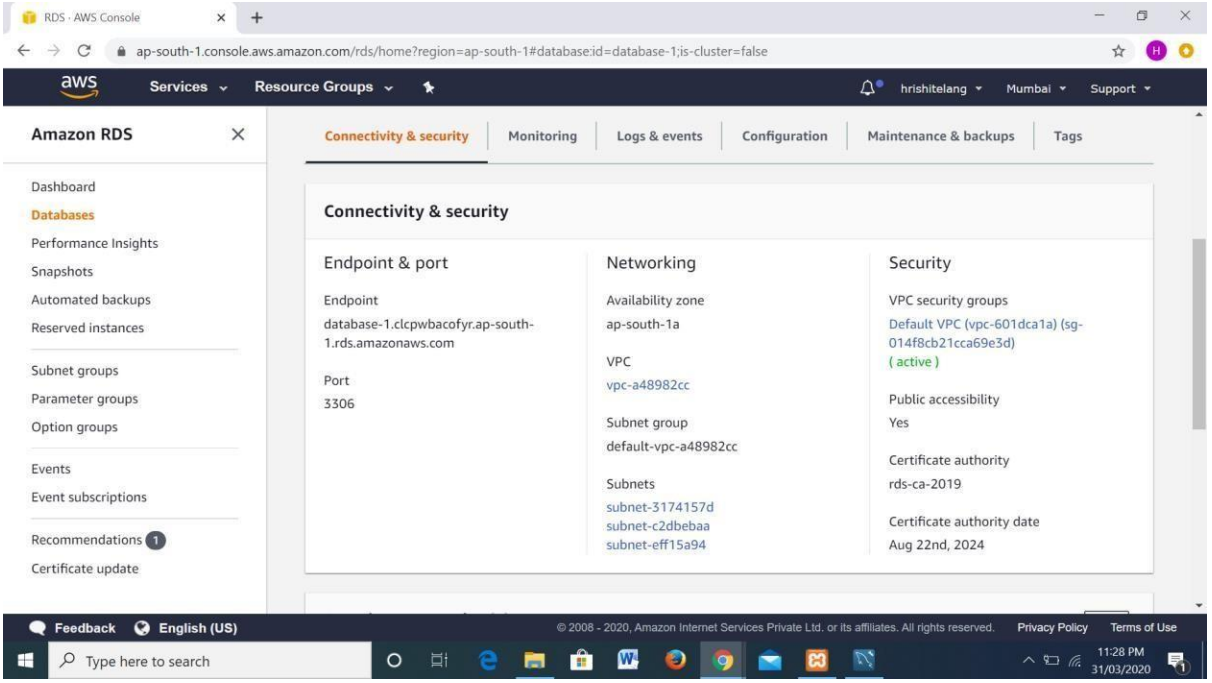

Fig. 22: AWS RDS

Computer output is the most important and direct source of information to the user. Output design is a crucial phase since the output needs to be in an attractive manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output.

The output module of this system is the user-friendly window. If the entered data, while sign in satisfies all the conditions, then it is transferred to the appropriate tables in the database else the user is warned by a message. If the username and password are valid, then the user can access all pages else; the user is informed by a message showing an incorrect username/password. The user then gets complete information about the various tourist places. The user views the best deals after entering the required data about the tour. A page is designed for showing the best deals with discount prices according to user preferences. A separate page is intended for 'About us,' showing the information about the travel agency. A page for 'contact us' displays the contact details.

Chapter 3

Conclusion

The proposed system has given me an ample opportunity to design, code, test and implement an application. This helped us in putting into practice, various engineering principles and Database Management concepts like maintaining integrity and consistency of data. It has helped us in gaining valuable information on the web page design principle, handling the user interface in powerful way to access various pages across the application. More than anything this project has given us great satisfaction in having designed an application.

Tourism is currently recognized as a global industry that is highly growing at a high rate, like any other industry. Many different activities occur in tour activities. We successfully developed a web-based application that helps in the online distribution of tour packages, hotels, hotel properties, transfer, etc. Our 'Tourism Management System' has successfully been implemented.

We have used MySQL database edition provided by Amazon Web Services i.e. Relational Database Service. Using Cloud computing services allows us to store important data to be stored on cloud without any fear of our data getting stolen. It has a friendly environment that connects customers willingly. Thus, it simplifies the process, thereby saving our time and efforts. Moreover, it also facilitates easy updating and handling of records. If a user wants to change any of his personal information, he /she can easily do it and the action gets reflected on the cloud. A further modification could be possible where the system can be integrated with bigger organization such as tourist agencies in order to help them.

Finally, we can say that this Web-Based Application will help tour managers to control and handle the tour related activities effectively and efficiently.

Chapter 4

References

[1]https://www.w3schools.com/html/

[2]https://www.w3schools.com/css/

[3]https://www.w3schools.com/js/

[4]https://www.w3schools.com/php/

[5]https://www.apachefriends.org/index.html

[6]https://aws.amazon.com/rds/

Acknowledgment

A project is always coordinated, guided, and scheduled team effort aimed at realizing a common goal. We are grateful and gracious to all those people who have helped and guided us through this project and make this experience worthwhile. We sincerely wish to thank our Director, **Bro. Jose Thuruthiyil** and Principal **Dr. Sincy George** for giving us this opportunity to prepare a project in the Fourth Year of Computer Engineering. We are highly indebted to our institute **St. Francis Institute of Technology,** and the **Department of Computer Engineering** for providing us with this learning opportunity with the required resources to accomplish our task so far.

We would also like to express our sincere gratitude to our Project Guide **Prof. Ditixa Mehta,** who guided continuously and supervised us and also furnished essential information concerning the betterment of our project. This work would not have been possible without her necessary insights and intellectual suggestions that have helped us achieve this juncture of our progress. We also take the opportunity to thank and all **teaching and non-teaching staff** for their endearing support and cooperation.