# Designing a WebApp to Manage Travel Expenses with SQL Backend

*Submitted to Jawaharlal Nehru Technological University , Hyderabad in partial fulfillment of requirement for the degree of*

## Bachelor of Technology

in

## COMPUTER SCIENCE AND BUSINESS SYSTEMS

*Submitted by*

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (BS)**

# SREE DATTHA INSTITUTE OF ENGINEERING & SCIENCE

(Autonomous)

(Approved by A.I.C.T.E &Affiliated to Jawaharlal Nehru Technological University Hyderabad) (Accredited by NAAC with ‘A’ Grade, ISO 9001 : 2015 Certified)

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2021-2025

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Abstract

This project focuses on the design and development to fawebapplicationaimedatefficiently managing travelexpensesforindividualsand businesses. Theapplication providesuserswith a centralized platform to record, track, and analyze their travel expenditures, including transportation, accommodation, meals, and other miscellaneous costs. The web app leveragesa robust SQL backend to store, retrieve, andprocessexpense data, ensuring data integrity and efficient querying for reports and analytics.

The core features of the web app include user authentication, expense entry and categorization, currency conversion, expense reporting, and visualization of spending patterns. The SQL database schema is designed to handle various types of expenses, user roles,andmulti-currencysupport,whileensuringscalabilityandeaseofaccess.Thebackend is optimized for efficient data management through the use of normalized relational tables and SQL queries to support complex reporting functionalities.

Keywords:

Web Application, Travel Expenses, SQL Backend, Data Management, Expense Reporting, Multi-currency Support, User Authentication, Data Integrity, Financial Analytics.

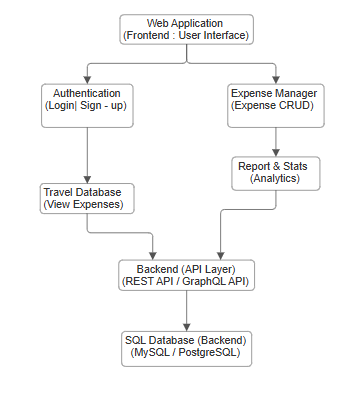
### EXISTINGSYSTEM:

In today's digital age, numerous travel expense management systems exist to help individuals and businesses track and manage their travel-related expenditures. These systems are designed to streamline the process of recording, categorizing, and analyzing travelexpenses,oftenintegratingwithaccountingsoftware,companypolicies,andbusiness travel platforms.

### PROPOSEDSYSTEM:

The proposed system is a web-based application designed to help individuals and businesses effectively manage travel expenses. This system will allow users to track, categorize,andreporttheirtravel-relatedcosts,offeringanintuitiveinterfacewithsecure data storage in a SQL database. The application will also include essential features like multi-currency support, receipt upload and management, and reporting tools, allowing users to efficiently manage their expenses and maintain financial transparency.

**BLOCKDIAGRAM**



### HARDWARE:

* SERVERS
* NETWORKDEVICES
* STORAGEDEVICES
* DRIVES(SSD/HD)

### SOFTWARE:

* Webserver
* Applicationserver
* Databaseserver
* Programming languages and Frameworks
* Operatingsystems
* Cloudplatforms

### ADVANTAGES:

* Organization:Centralizedplatformtotrackexpenses.
* EasyAccess:Accessiblefromanydevicewithinternetconnectivity.
* Time-Saving:Automatedcalculationsandreportgeneration.
* BetterFinancialOversight:Clearvisualizationofspendinghabits.
* TaxPreparation:Simplifiedtaxfilingwithorganizedexpenserecords.

### APPLICATIONS:

* CorporateTravel:Companiescanmanageemployeetravelexpenses,trackbudgets,and generate reports.
* IndividualTravelers:Individualscantrackpersonaltravelexpenses,planbudgets,andoptimize spending.
* FreelancersandConsultants:Self-employedindividualscanmanageproject-specificexpenses and generate invoices.
* Students:Studentscantrackstudyabroadexpensesandreimbursements.
* RemoteWorkers:Remoteworkerscanmanagework-relatedtravel expenses.

Signature of Guide Signature of HOD

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MTech,PhD MTech,PhD

Designation Prof&Head

# PPT Guidelines :

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