


# Functional Specification for Database and Information Systems Project

September 22, 2013

## 1 Introduction

This document describes the functional specifications of the application being developed to meet the requirements of the completion of the Database and Information Systems Lab project. The project details are as below:


- Name of the Project : *Trawl* 
- Team Members : Mridul Garg (110050030), Anand Soni (110050037), Sanchit Garg (110050035), Himanshu Roy (110050019)

## 2 Project Domain

- Tourism. The application will serve as a travel planner and guide for tourists.

## 3 Application Specifications


Based on the category of the user, the application is supposed to provide the following functionalities:

- For an unregistered user : An unregistered user is any random visitor who comes across and explores the application.
  - Search for tourist places by country, state or city
  - Search for a tourist place by its name
- For a registered user : A registered user is one who has filled in her personal details and has been provided login credentials.
  - Search for tourist places by country, state or city 
  - Search for a tourist place by its name
  - Search for hotels by city or tourist spot
  - Search for speciality cuisines of the region
  - Rate places visited and hotels stayed in
  - Maintain a wishlist for the places she wants to visit
  - Prepare and modify a **travel plan** for her tour
  - Maintain a history which records all the details of her trip

- Update personal information
- For Administrators : An administrator is the owner of this application who can create and modify the database and can also add more users to it (employees or customers).
  - Modify the tourism database
  - Create logins for recruited employees
- For employees : An employee (not necessarily a user) has the power to modify the database.
  - Modify the tourism database

## 4 Aspects Modelled

As a part of this application, we have created 12 entities and modelled them as below:

- Modelled Customers, Administrator, Employee , Countries, States, Cities, Tourist spots, Hotels and Food.
- Modelled travel **planner**, rating system, tour history, wishlist (places to visit).

## 5 Aspects Not Modelled

The following aspects have not been modelled in the application:

- Review system, Festivals, Shopping, Entertainment and other activities.



## 6 Role of Each Member

This section roughly describes the parts of the project that each member will contribute to. However, the actual contributions may differ.

- Mridul Garg
  - Design of the Functional Specification
  - Design of relational database and screen
  - Normalization and design of final schema
  - Writing SQL scripts for schema and other programming tasks.
- Anand Soni
  - Design of the Functional Specification
  - E/R modelling and creation of test plan
  - Design of relational database and screen
  - Writing SQL scripts for schema and other programming tasks.
- Sanchit Garg
  - Design of the Functional Specification

- E/R modelling and creation of test plan
- Normalization and design of final schema
- Writing SQL scripts for schema and other programming tasks.
- Himanshu Roy
  - Design of the Functional Specification
  - E/R modelling and creation of test plan
  - Normalization and design of final schema
  - Writing SQL scripts for schema and other programming tasks.

## 7 Possible Value Addition

The following features might prove to be further value additions to this project which we have not planned to model/implement:

- Hotel Bookings
- Travel Bookings and planning