



# Graduation Project

## Adventurous



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## Chapter One

### Introduction

**Camping:** is an activity that can easily be enjoyed by everybody. It is a lot of fun as it's a healthy and cheap alternative compared to residing in Hotels or Resort. Many places across Egypt, such as South Sanai, are full of charming landscapes, which have captured traveler's imaginations to experience the true taste of adventures and escape from the hustle of big cities. Camping means different things to different people. Such as improving health as it does a body (and mind) good, for example:

**The Pharaoh bath:** Consists of a group of natural hot springs; The mountain above contains a stone tunnel used as a natural hot sauna, Scientific research proved the importance of water in treating some diseases such as rheumatism and rheumatoid, kidney diseases, lung inflammation, skin diseases. There is a health resort being constructed in the area. It is the first of its kind in Egypt and the Middle East for environmental and natural treatment. The location is centered among Ancient Egyptian monuments, which truly benefits Medical Tourism in Egypt.



- **Ras Sudr:** Is an awesome tourist town in Sinai Governorate It is a very well-known spot that holds "Ouyoon Moussa" (Moussa's wells). It is famous for its sandy coasts, sea salt, and low in seaweed, which is another natural wonder, Eyyoon Moussa is a hot spring containing iodine and sulfur, known to be a good remedy for skin conditions and rheumatism, and apparently a hub for the cures of nature, It's a location that heals the body and should heal the mind and soul as well.
- **Moses Pool:** Hammam Moussa includes five springs that pour into a pool covered by a large dome The pool is continually filled with natural, renewable sulfuric water that measures 38° Celsius, believed to help cure rheumatism, arthritis, bone and skin diseases, as well as wound healing. It is also surrounded by more than 2,000 old fruitful palm trees and analgesic herbs. The water and the herbs in the area are claimed to settle body energy and fight aging.

However, Medical benefits are not the only reasons that makes camping important, Some of the main reasons are:

1. **Digital Detox:** digital detox means taking a break from daily pressures and temptations of keeping up with Whatsapp groups, posting on social media and any other digital habits you have formed. It basically entails turning off your phone for a couple of



days while you go camping. you can spend hours upon hours just staring at the stars or tending to a fire while staring into the flames.

- 2. Peace and Calm:** Getting out in nature is a great way to find some peace and calm.
- 3. Freedom:** One of the top reasons to go camping is the freedom you feel out in the middle of nowhere.
- 4. Adventure:** Camping in nature combined with a campfire is an adventure anyone can enjoy on a weekend and then finally getting to have a website that makes it easier to go camping. Whether you are with your friends, family, partner or on your own.
- 5. Camping is Cheap:** This makes it incredibly accessible to everyone. You are often in a beautiful location with a view that would cost thousands if you would book a hotel room. This is the new rich.



## **Problem Statement:**

There are many problems that prevent us from living this adventure and enjoying all the natural sites in south sinai.

### **1. Difficulty of booking:**

It's difficult to book a trip to enjoy camping and experiencing the adventure Without suffering from the amount of searching that you'll need to do, Which means wasting much time and effort to find only the host that you can take the risk and travel with. Which means that you can't live the vibes of camping. Only because you can't Book.

### **2. No Official type of contract to book:**

To save your rights you need a contract that tells you what you should give and what you should take, But Booking the Camps from social media does not give a solid Contract to save the customer rights (Talking by phone isn't truly a way to save your rights).

### **3. Lack of security measures & information when booking with unknown hosts:**

Lack of information about the host leads to dealing with a host that you pay for and don't have anything about, You might later find that the host



is a scammer. Or you might also pay for a specific program and when you arrive you find that the program has changed and you can't do anything about it. Also requesting a refund from camp hosts in case of wanting to cancel reservation can be challenging.

## Project Idea:

**Adventurous.com** is the first of its kind website that provides customers the ability to book camps through various geographical locations such as South Saini, including Dahab, Taba , Raas Sheetan , Saint Catherine , Nuweiba at the same place also with many suggestions for programs and locations, with highly secured places and professional teams.

## Objectives:

Because every project must have an objective, Our objectives for this project are:

- 1. Facilitate the process of booking camps in an easy and safe way.**

**Adventurous.com** is an easier way to communicate and to connect users with their needs through a legitimate protective website that has all the data that you may need leaving you to check for the type of information you need, and choose your favorite program from the





different ones at the website, Even customizing your own program by yourself however you like is possible.

## **2. Providing transportation to facilitate the transfer process.**

Reaching camps is usually a challenge because there's lack of information provided by hosts regarding camp location, oftentimes travelers need to ask locals for help, for example they might rent pickup trucks, So the website will make a deal with a transportation company to pick up the travelers to camp locations.

## **3. Complete Adventure with reasonable prices at natural sites.**

Some people dream of being out in natural places on their own. So they begin by searching for hotels, and as we know hotels are very expensive so thinking about camping is the easiest way to enjoy the natural sites with low prices.

## **4. Providing the feature of specifying the full program of the trip or booking the camp.**

Every traveler has his own way to live the adventure, [Adventurous.com](http://Adventurous.com) provides all the advantages that suit all possible kinds. For example: Those who wish to book a complete program that includes all kinds of



adventures find that feature. Or they can book a camp only and customize their own program in their own way.

## **5. Improving tourism through exploring inside Egypt.**

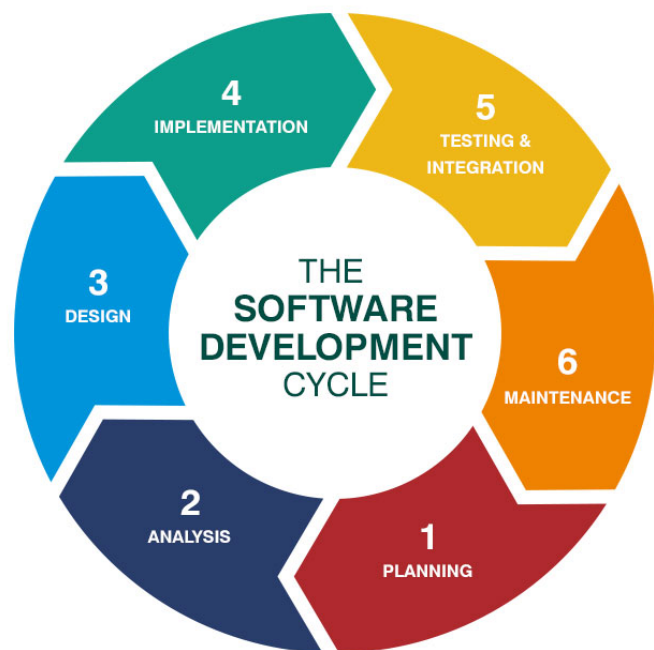
Our website is concerned with promoting camping culture to more people across Egypt. This can be achieved by providing listings for categories, This is where visitors can find the contact information for specific attractions and activities, as well as pictures and descriptions. It also has event calendars that showcase festivals, performances, even seminars taking place across camping sites.

## **6. Make profit (Ads - Registrations)**

Every project must have a profits and [Adventorous.com](http://Adventorous.com) for-profit website that makes money primarily via commissions and transaction fees on the travel bookings sells through our website , And through having a percentage of the profits of the transportation company that we will contract with,;we also provide camps the option to place ads on the website for an extra charge.

## Chapter Two

**Software Development Life Cycle (SDLC):** Is a process used by the software industry to design, develop and test high quality softwares, It's typically divided into six to eight steps:



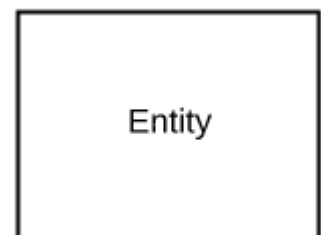
**Data Flow Diagram (DFD):** A data flow diagram (DFD) maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows, plus short text labels, to show data inputs, outputs, storage points and the routes between each destination.

### **Symbols of DFD:**

Data Flow Diagram symbols are standardized notations, like rectangles, circles, arrows, and short-text labels, that describe a system or process'

data flow direction, data inputs, data outputs, data storage points, and its various sub-processes.

- **Entity Symbol:** Entities include source and destination of the data. Entities are represented by a rectangle with their corresponding names. that sends or receives data. They're either the sources or destinations of information.



- **Process Symbol:** Also known as an "Action Symbol,"



- **Data Flow Symbol:** is the movement of data through a system.



- **Data Store Symbol:** is a connection to a store of data.



### Guidelines For Drawing DFD:

- Data can not flow between two entities.
- Data can not flow between two data stores.
- Data can not flow directly from an entity to a data store.
- A process must have at least one input data flow and one output data flow.
- A data store must have at least one input data flow and one output data flow.

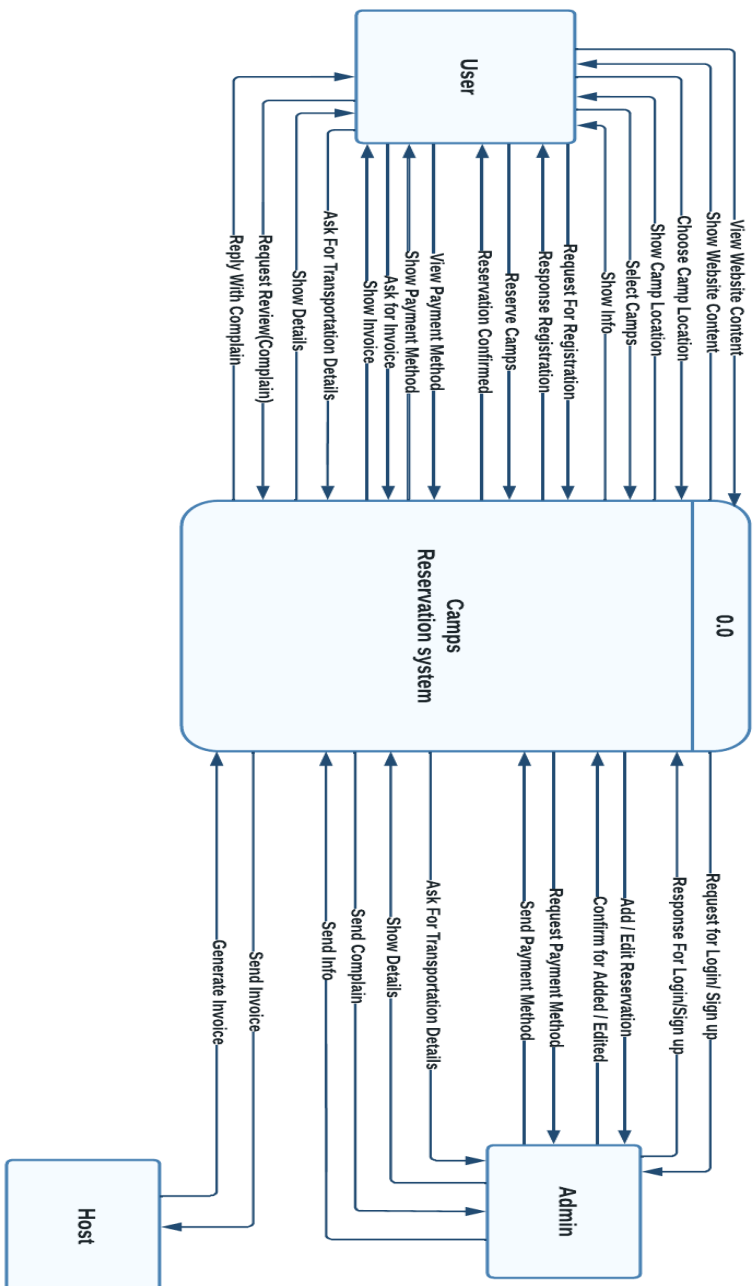


- Two data flows can not cross each other.
- All the processes in the system must be linked to a minimum one data store or any other process.

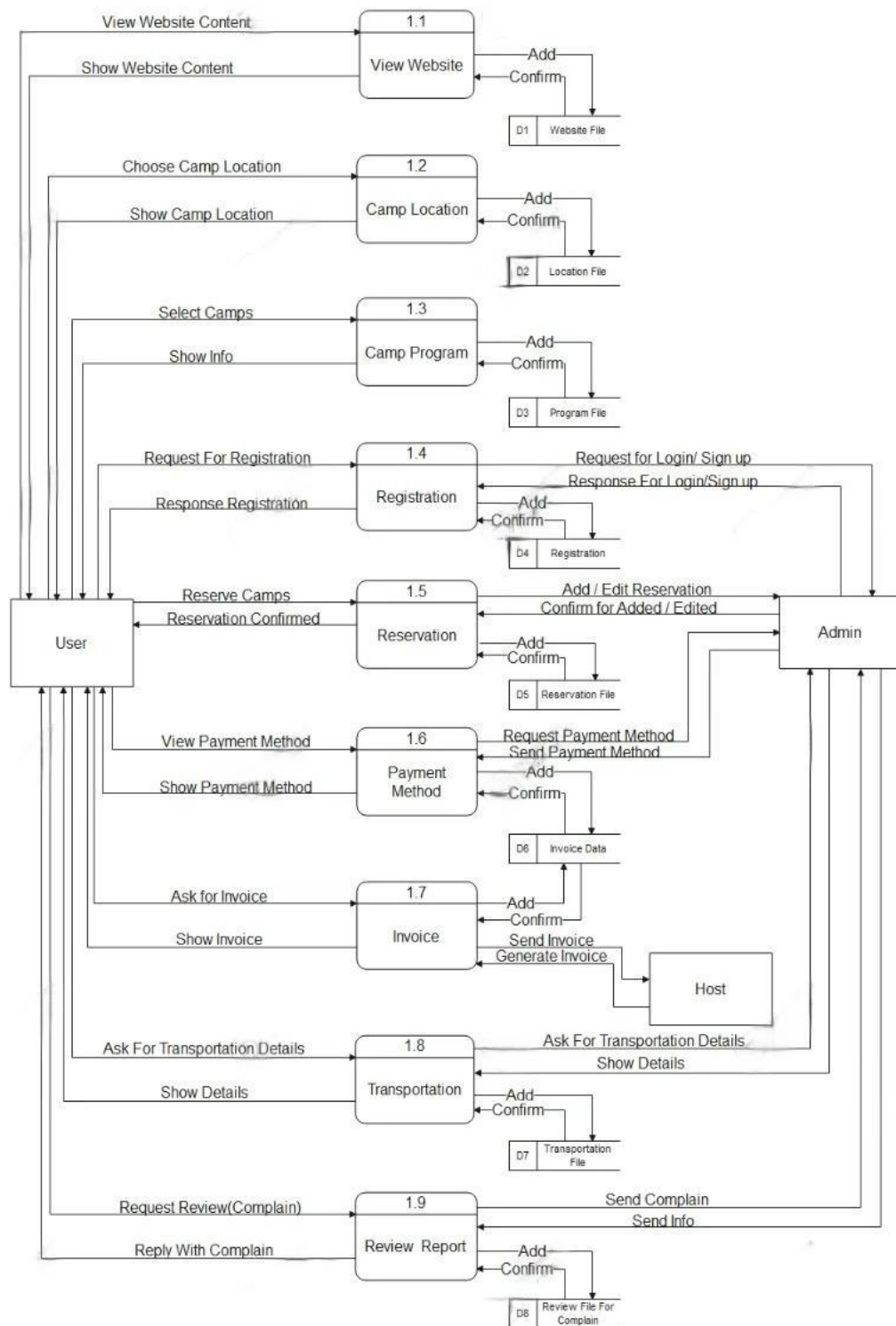
### Levels of DFD:

- **Level 0 DFD:** Level 0 DFDs, also known as context diagrams, are the most basic data flow diagrams. Level 0 data flow diagrams show a single process node and its connections to external entities.
- **Level 1 DFD:** Level 1 DFDs, are still a general overview, but they go into more detail than a Level 0 diagram. In level 1 DFD, the single process node from the context diagram is broken down into sub-processes.

## Level 0



### Level 1





## Chapter Three

**Database:** is an organized collection of structured information, usually controlled by a database management system (DBMS). Together, the data and the DBMS, are referred to as a database system.

**Database Objectives:** The objective of a (DBMS) is to facilitate the creation of data structures and relieve the programmer of the problems of setting up complicated files.

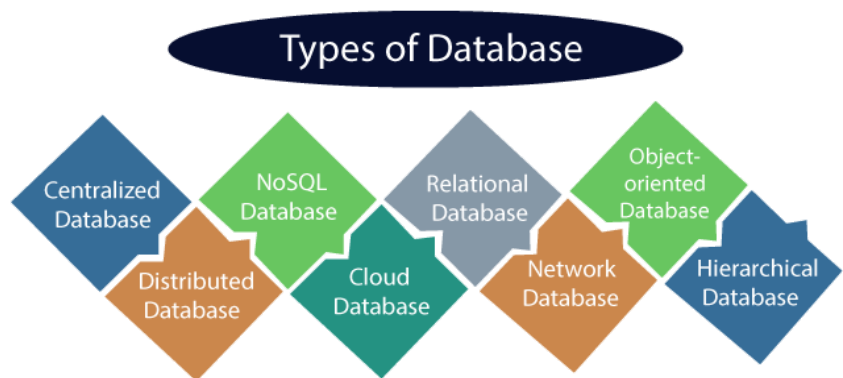
**Database design:** is a collection of processes that facilitate the designing, development, implementation, and maintenance of enterprise data management systems. the database designer decides how the data elements correlate and what data must be stored.

**Database Management System (DBMS):** A database typically requires a comprehensive database software program known as a database management system (DBMS). A DBMS serves as an interface between the database and its end users or programs, allowing users to retrieve, update, and manage how the information is organized and optimized.



## Types Of Database:

- Centralized database
- Distributed database
- Cloud database
- NoSQL database
- Relational database
- Object-oriented database
- Network Database
- Hierarchical Database



## Entity Relation diagram (ERD):

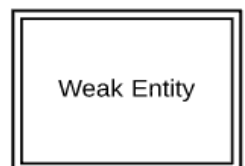
It is a type of flowchart that illustrates how People “Entities” related to each other, By using a set of symbols such as rectangles, diamonds, ovals and connecting lines to illustrate the relations between them.

### Types Of Entities:

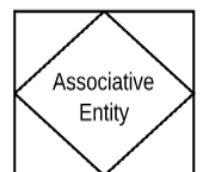
**1-Strong Entity:** This type has a primary key, distinguishing each occurrence of the entity.



**2-Weak Entity:** They have no meaning in the diagram without their parent entity.



**3-Associative Entity:** Associative entities relate the instances of several entity types.



## Types of Relationships in ERD Diagram:

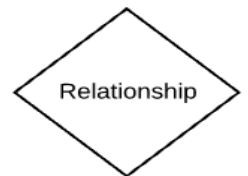
**1-Relationship:** associations between or among entities.

**2-Weak Relationship:** are connections between a weak entity and its owner.

**1-One-to-one relationship:** (1:1)

**2-One-to-many relationship:** (1:N)

**3-Many-to-many relationship:** (M:N) .

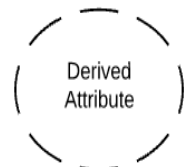
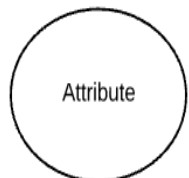


## Types Of Attribute:

**1. Simple Attribute:** characteristics of an entity.(Like:Name)

**2. Multivalued Attribute:** are those that can take more than one value.(Like:Phone no.)

**3. Derived Attribute:** are attributes whose value can be calculated from related attribute values.(Like:Age)





## **Steps To Create ERD:**

There are a few basic steps to take to draw an ER diagram

- 1-** Determine the Entities in Your ERD.
- 2-** Add Attributes to Each Entity.
- 3-** Define the Relationships Between Entities.
- 4-** Add Cardinality to Every Relationship in your ERD.
- 5-** Finish and Save Your ERD



## Schema:

The design of the database is called a schema. This tells us about the structural view of the database. It gives us an overall description of the database and defines how the data is organized using the schema diagram. It only shows us the database design.

## Types of Schema:

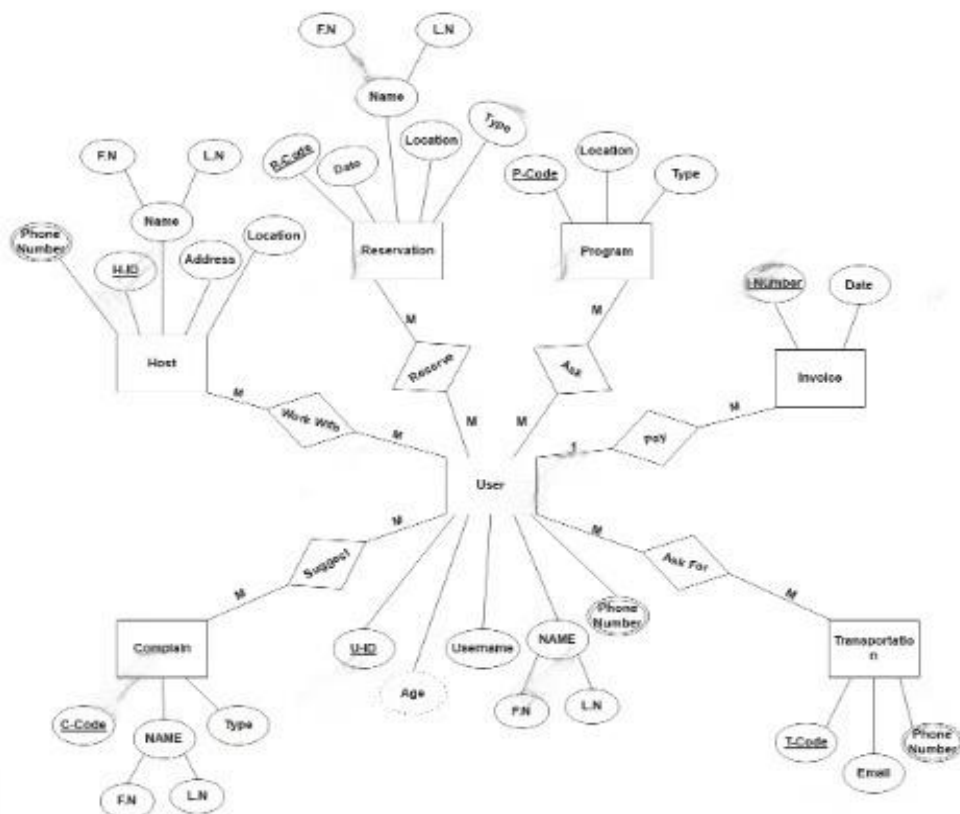
**1- Conceptual Schemas:** offer a big-picture view of what the system will contain, how it will be organized, and which business rules are involved.

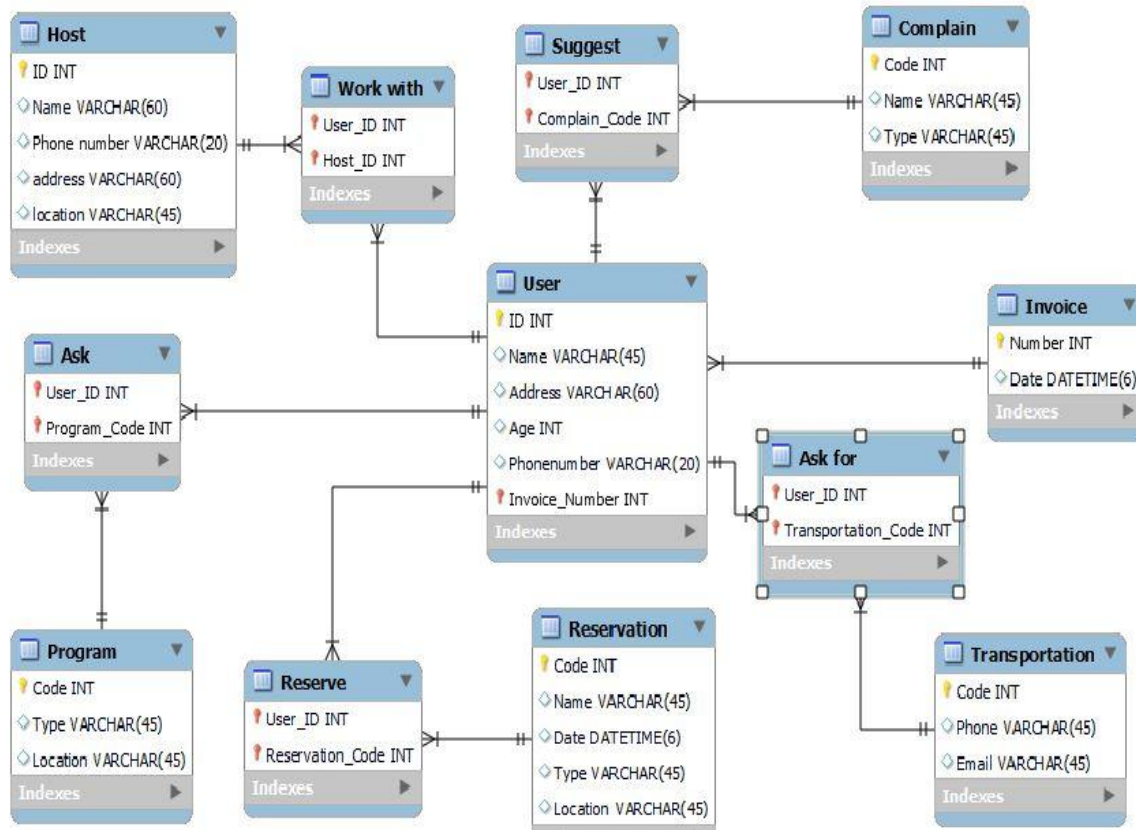
**2- Logical Database Schemas:** are less abstract, compared to conceptual schemas. They clearly define schema objects with information, such as table names, field names, entity relationships, and integrity constraints.

**3- Physical Database Schemas:** provide the technical information that the logical database schema type lacks in addition to the contextual information.

## Benefits of Database Schemas:

- Access and security.
- Organization and communication.
- Integrity.







## Chapter Five

**Conclusion:** Life has been so busy and hectic for everyone lately, that's why we all need to take a break in order to produce better.

Therefore this website will help everyone to have the advantage of taking a break from the busy cities and cellphones to give themselves a minute to meditate and communicate with their souls and think better.

Our Camps booking website “Adventurous” is the key for this, it gives everyone the chance to book at various kinds of categories and prices.

### Future Work:

Based on this idea, practitioners should consider these improvements:

- Making deals with an airline to provide traveling long distances by plane.
- Purchasing cars as a project asset for the internal trip movements such as Safary, As well as private Vans for VIP category.
- Expanding the trips to cover more places in Egypt such as Siwa Oasis, White deserts & Luxor and Aswan.
- Making a compare button function to allow users to compare between different cities and camps.
- Creating a recommendation function for the website to give to the customer based on his past searching/trips.

