

Yelp Camp

Submitted in partial fulfilment of the requirements for the award of
the degree of

Bachelor of Computer Applications

To

Guru Gobind Singh Indraprastha University, Delhi

Guide:

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Nurturing Excellence

Institute of Innovation In Technology & Management,
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Batch (2019-2022)

Certificate

I, Lakshay Maini (09790302019) certify that the Minor Project Report (BCA-357) entitled "Yelp Camp" is done by me and it is an authentic work carried out by me at Institute of Innovation In Technology and Management. The matter embodied in this project work has not been submitted earlier for the award of any degree or diploma to the best of my knowledge and belief.

1. Signature of the Student

2. Signature of the Student

Date:

Certified that the Project Report (BCA-357) entitled "Yelp Camp" done by the above students is completed under my guidance.

Signature of the Guide:

Date:

Name of the Guide:

Designation:

Countersigned

Director

Acknowledgement

We would like to express my special thanks of gratitude to my teacher **Dr. Geetali Bannerji** as well as our Institute - **INSTITUTE OF INNOVATION IN TECHNOLOGY AND MANAGEMENT** who gave me the golden opportunity to do this wonderful project on the topic "**Yelp Camp**" which also helped me in doing a lot of Research and we came to know about so many new things we are really thankful to them. Secondly, I would also like to thank my team in this project – who helped me a lot in finalising this project within the limited time frame

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CHAPTER 1

Introduction

The Yelp Camp project is all about the recreational camping activities done at the various tourist places. It also allows user to post comment, Feedback as well as the related pictures of the respective places. It is basically a camping site through one camping that place and know about the camping place, see the related picture and also sign up to comment and one can also post the cost queries.

Features

- Authentication:
 - ▶ User login with username and password
 - ▶ Admin sign-up with admin code
- Authorisation:
 - ▶ One cannot manage posts and view user profile without being authenticated
 - ▶ One cannot edit or delete posts and comments created by other users
 - ▶ Admin can manage all posts and comments
- Manage campground posts with basic functionalities:
 - Create, edit and delete posts and comments
 - ▶ Upload campground photos
 - ▶ Search existing campgrounds
- Manage user account with basic functionalities:
 - ▶ Password reset via email confirmation (disabled)
 - ▶ Profile page setup with sign-up
- Flash messages responding to users' interaction with the app
- Responsive web design

System Requirement Tools

The software we used in our project is Visual studio code.

Hardware

To execute all the program in our project we need a system or a smartphone with internet.

CHAPTER 2

System Analysis Software Requirement Specifications

Introduction:

The following subsections of Software Requirement Specifications Document should facilitate in providing the entire overview of the Information system “Yelp Camp” under development. This document aims at defining the overall software requirements. Efforts have been made to define the requirements of the Information system exhaustively and accurately.

Purpose:

The main purpose of Software Requirement Specifications Document is to describe in a precise manner all the capabilities that will be provided by the Software Application “Yelp Camp”. It also states the various constraints which the system will abide too. This document further leads to clear vision of the software requirements, specifications and capabilities. These are to be exposed to the development, testing team and end users of the software.

Requirement Gathering:

This section highlights the list of steps involved in gathering the requirements.

- **Functional Requirements:** The application provides various camping sites around the world.
- **Data Requirements:** This app uses the GPS functionality of devices to gather the longitude and latitude of the palace and then passes it to the YelpCamp to give camp data of that information.
- **Environmental Requirements:**
 - a. Used for exploring camp sites
 - b. Simple usage and interactive UI
 - c. It will run on Node.js & MongoDB
- **User Requirements:**
 - a. Campers can post the camp site they recently visited
 - b. People can explore various camp sites and get to know more about them.
- **Usability Requirement:** Web Application requires constant Internet connection and a Mobile Phone or PC.

Feasibility Study: A feasibility analysis usually involves a thorough assessment of the operation, financial and technical aspects of a proposal. Feasibility study is the test of the system proposal made to identify whether the user needs may be satisfied using the current software and hardware technologies.

Five Areas of Project Feasibility Study:

- **Technical Feasibility:** This project is the web application so it requires only web browser environment to run on. The language which is used in development is Node.js and we take help of Express Framework to implement the predefined methods so it is understandable by developer therefore we can state that our project is technically feasible.
- **Economic Feasibility:** As in this project the all resources are open source and user participation is spontaneous, so we can say that this project is economically feasible.
- **Operational Feasibility:** As this project is all about the recreational camping activities done at the various tourist places so it fulfils all the qualities of operational feasibility.
- **Legal Feasibility:** My project fulfils all the legal documentation so it is legally feasible in nature.
- **Scheduling Feasibility:** This project is completed within my training period so it is completed in scheduled time so it is feasible on time.

Requirement Definition:

This section includes the requirements:-

- **Functional Requirements:** This section includes the requirements that specify all the direct or fundamental requirements of the software system.
 - ▶ Admin case study- As in this application we have a provision of creating an admin account, so the admin can take control of all the data about location and give outputs to the user.
 - ▶ Customer use case- The user only has control on their internet and GPS connection. Users just need to enter the camp data for posting it.
- **Non-Functional Requirements:** A user must have the web browser and internet connection.
 - ▶ Performance- It performed well Google Chrome as it requires low amount of storage and ram. Its performance is mainly based on the internet connection. If there is fast internet

connection than it gives the output fast otherwise depends on the speed of internet. It gives the currently listed camps on the home.

- ▶ Reliability- This web app is reliable in nature and it only goes down whenever there is no stable internet connection.
- ▶ Availability- This web application is easily available for access on web browsers. It is user friendly in appearance.
- ▶ Security- As this web app is developed=keeping various security parameters in mind therefore it secures the data of the user.
- ▶ Maintainability- This web app is maintained easily by the single person itself.
- ▶ Portability- This web app is easily moved to another browser because of the cross browser compatibility code used, therefore the app is portable.

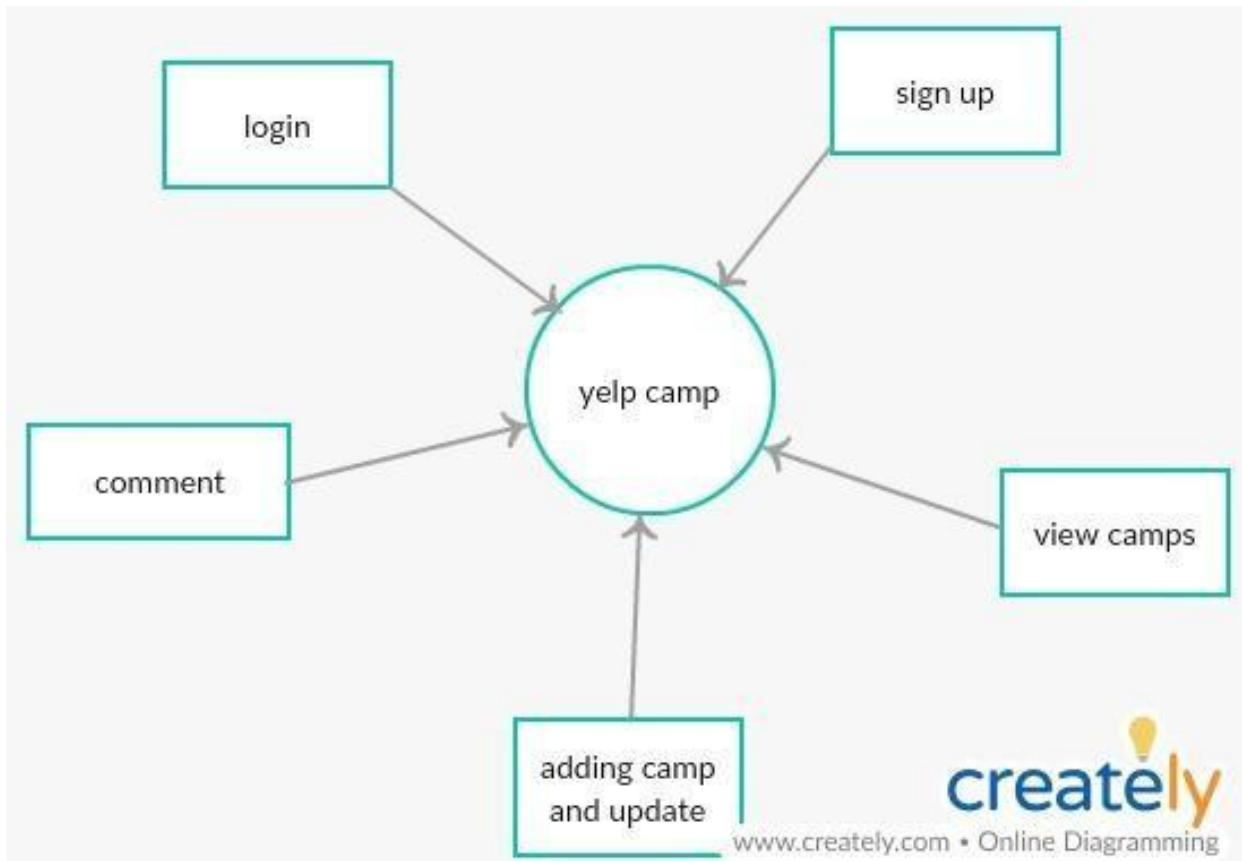
CHAPTER 3

System Design

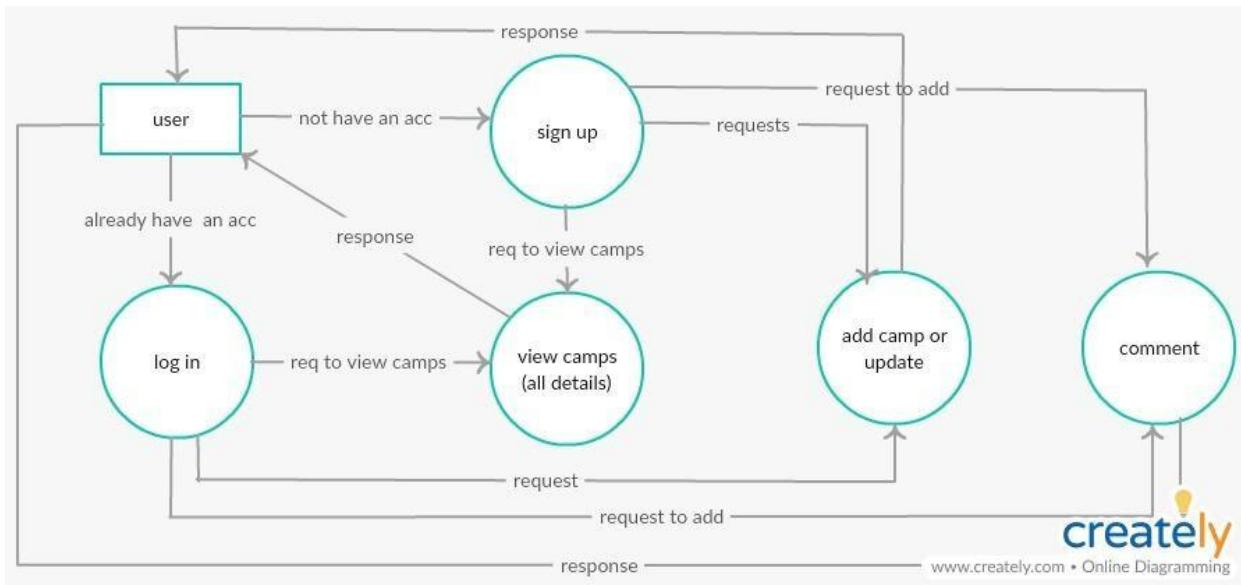
Physical Design: The web Application will be having a user friendly and a menu based user interface. The following screens will be experienced by the user when he/she will start the application.

Use Case:

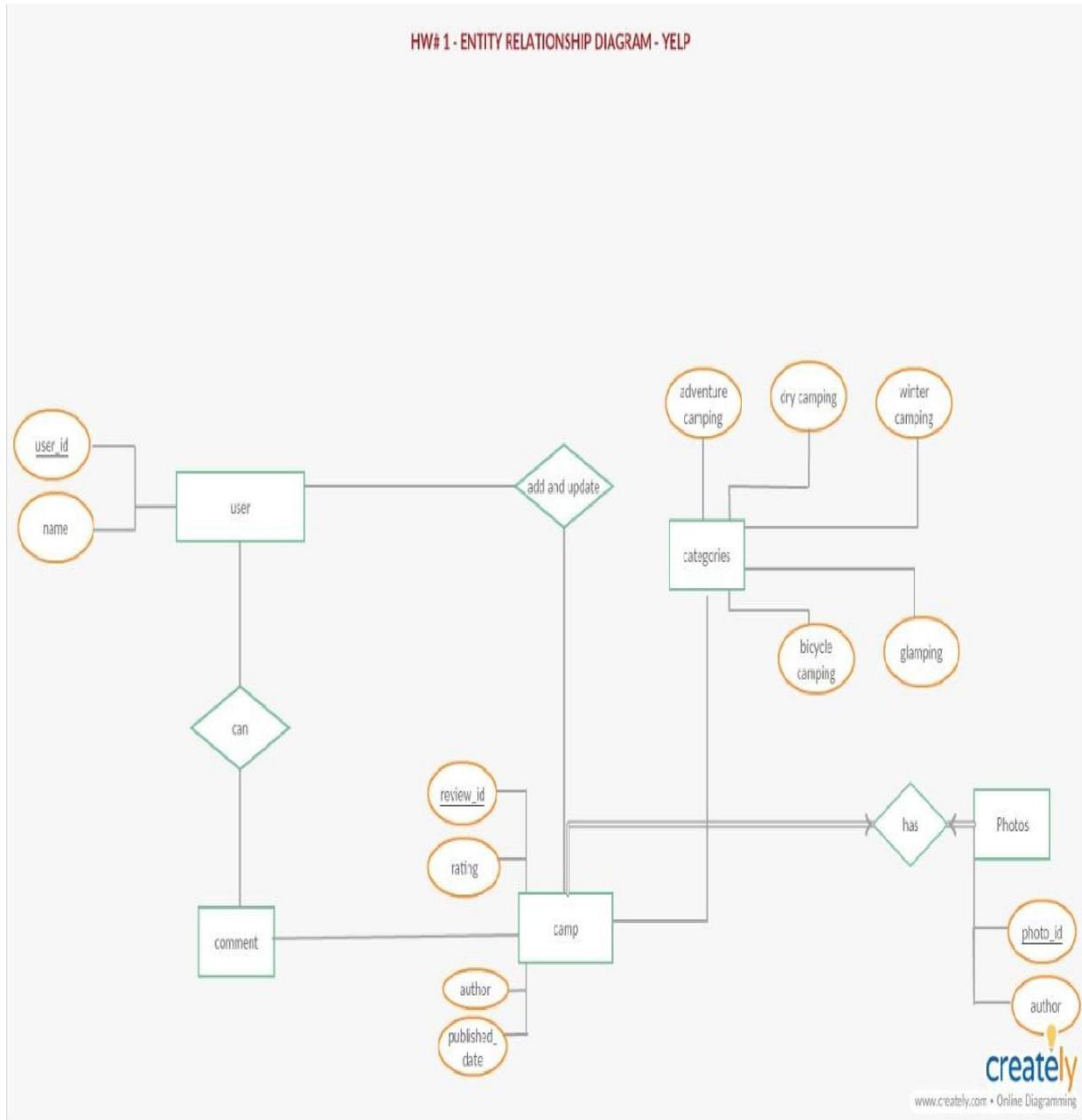
1. Zero Level DFD



2. One Level DFD

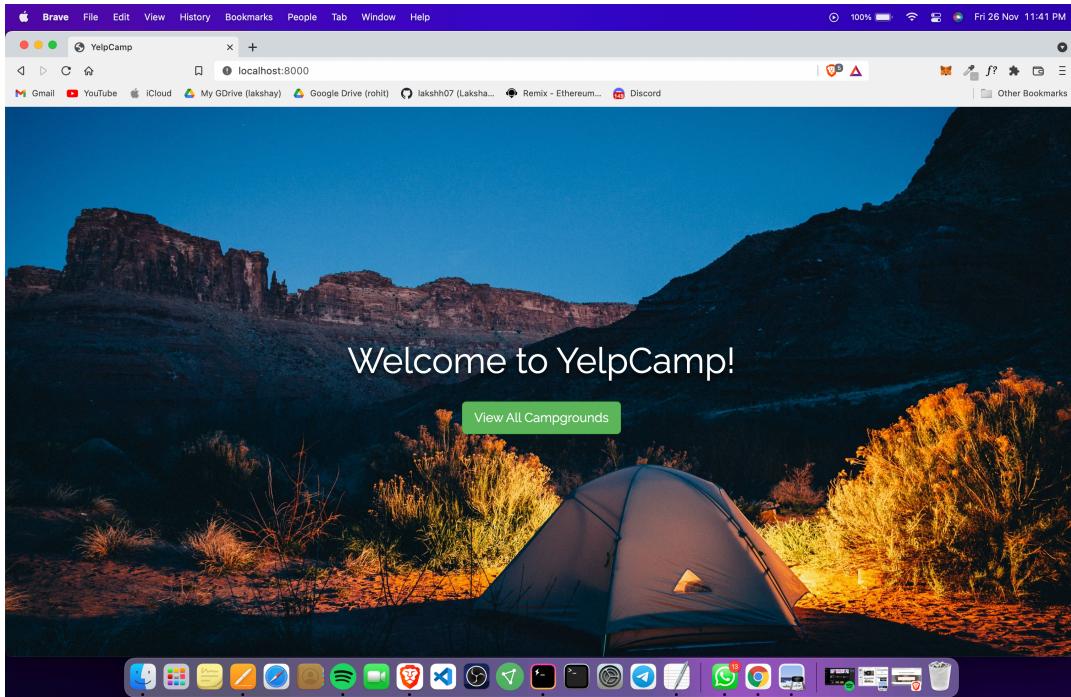


3. ER Diagram

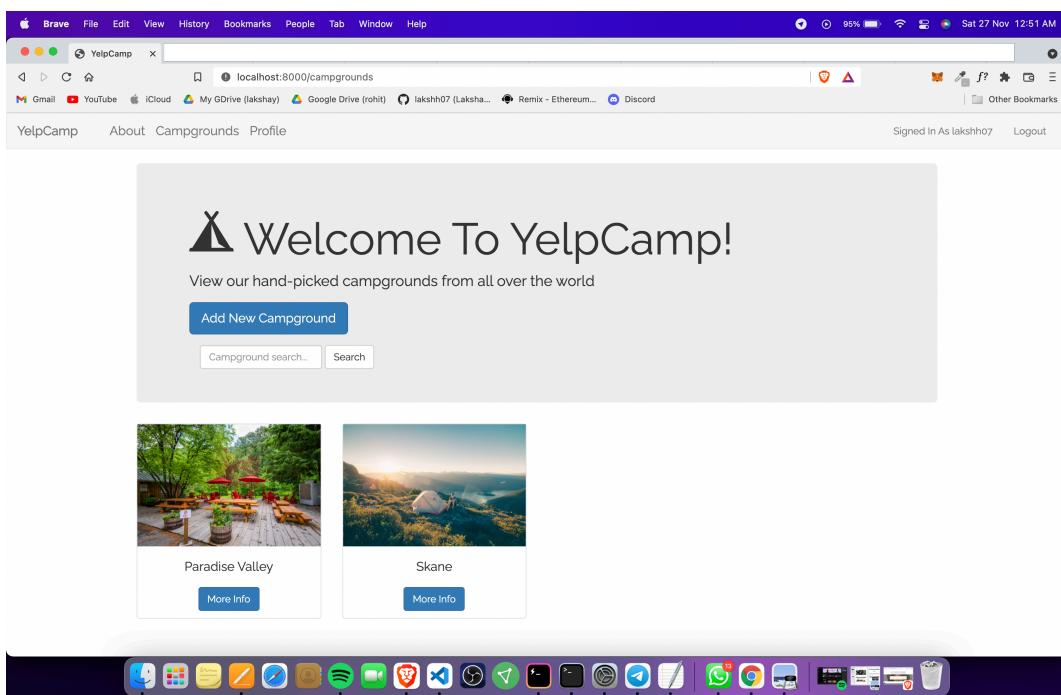


EXISTING SYSTEM DESIGN (Graphical User Interface)

Landing Page



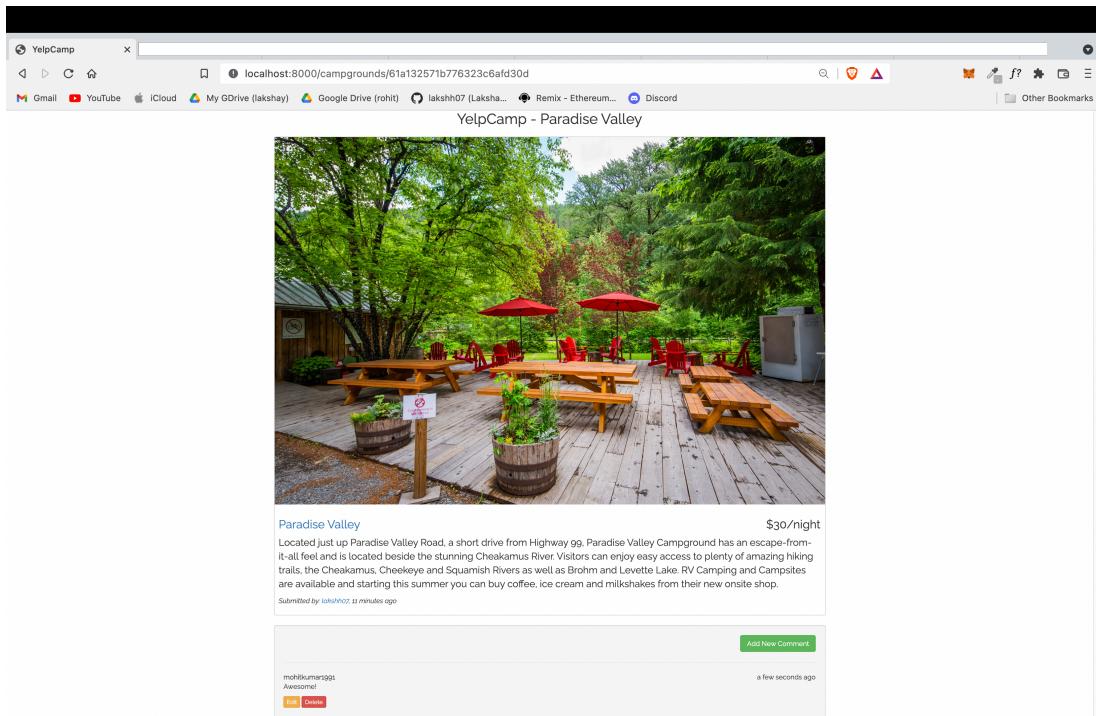
Home Page



SignUp Page

The screenshot shows a web browser window with the URL `localhost:8000/register`. The title bar says "YelpCamp". The page has a "Sign Up" heading. There are seven input fields: "username", "password", "first name", "last name", "email", "avatar url", and "Tell us about you!". Below these is a note: "Only for Admins! Leave blank if you aren't.". A large blue "Sign Up!" button is at the bottom. At the very bottom left is a "Go Back" link.

Detailed View Page



Profile Page

The screenshot shows a web browser window for the YelpCamp application. The URL in the address bar is `localhost:8000/users/61a132271b776323c6af305`. The page displays a user profile for "Lakshay Maini". At the top is a circular profile picture of a man with glasses and a beard, giving a thumbs-up. Below the picture, the name "Lakshay Maini" is displayed, followed by the email "lakshaymaini77@gmail.com". A section titled "lakshh07's campgrounds" shows two thumbnail images: "Paradise Valley" (a wooden deck with picnic tables and red umbrellas) and "Skane" (a tent pitched on a grassy hillside overlooking a lake at sunset). The browser's toolbar at the top includes icons for Brave, File, Edit, View, History, Bookmarks, People, Tab, Window, Help, and various system status indicators like battery level and signal strength. The bottom of the screen shows the Mac OS X Dock with various application icons.

Comment Page

The screenshot shows a web browser window for the YelpCamp application. The URL in the address bar is `localhost:8000/campgrounds/61a132571b776323c6af30d/comments/new`. The page title is "Add New Comment to Paradise Valley". A text input field contains the text "Awesome!", and a blue "Submit!" button is positioned below it. A small "Back" link is visible at the bottom left. The browser's toolbar and the Mac OS X Dock are visible at the top and bottom of the window respectively.

CHAPTER 4

System Testing

Introduction: Testing is an activity to check whether the actual results match the expected results and to ensure that the system is Defect free. It involves execution of a software component or system component to evaluate one or more properties of interest. In this project, as this is a mobile application, it needs to be deployed to the iOS platform, so here testing has been done on simulator and data is compared from the google data.

Testing Methods: Software testing methods are traditionally divided into black box testing and white box testing. These two approaches are used to describe the point of view that a test engineer takes when designing test cases.

- **Black Box Testing:** Black box testing treats the software as a "black box"—without any knowledge of internal implementation. Black box testing methods include: equivalence partitioning, boundary value analysis, all-pairs testing, fuzz testing, model-based testing, traceability matrix, exploratory testing and specification-based testing.
- **White Box Testing:** White box testing is when the tester has access to the internal data structures and algorithms including the code that implement these.

CHAPTER 5

Conclusion

App - ‘YELP CAMP’ is a really efficient application. The application has a professional look and feel, and it is also very easy to use as compared to the other applications.

Web app development is a continuous process with many iterations. There is no such thing as a perfect design and the app has to dynamically be able to change in order to follow the trends, because the App World is a dynamic world. What is good today, may not be good tomorrow. Developers have to always keep this in mind if they want their app to succeed in this market, and although testing is a very important step of this process, so the app is not published with bugs, the best test they can make to it is to release it. It will reach millions of users throughout the world, all with different needs and tastes and only then will you have the results that allow you to develop the app in one or more directions.

Things Learned:

- **Design:** The design has to reflect the quality of those camps because the user has no idea of what the services can or cannot do. He only knows what he sees and interacts with.
- **Node.js:** Node is powerful resource helpful in creating web applications with great ease and efficiency. As an asynchronous event driven JavaScript runtime, Node is designed to build scalable network applications.
- **Express:** Light Weight Framework for node which boost the app development process and is very easy to use.
- **APIs:** Through this project I get know about APIs and how we can use them in our application. I also learn how to get the information through APIs and how to link the APIs through its key.