



# **Destination Xplorer**

COMP229 - 006

## **External Design Document**

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## Section 1: Introduction

### 1.1 Purpose

The purpose of this project is to create a responsible travel destination review website that enables users to access reviews submitted by other travelers about various destinations. The website aims to help users make informed decisions on whether to visit specific places and gain insights into what to expect from those destinations. Additionally, the platform will empower users to share their own experiences, thoughts, and recommendations through written reviews, images, and videos, fostering a community of responsible and engaged travelers.

## Section 2: Project Overview

### 2.1 Goals and Objectives

- **Create a Comprehensive Travel Reviews Platform:**  
The primary goal is to develop a user-friendly and feature-rich travel review website that encompasses a wide range of destinations in Toronto and provides comprehensive reviews from travelers around the world.
- **Deliver Valuable Information to Users:**  
The website strives to provide users with well-informed reviews to ensure that every message they receive is valuable and enhances their overall experience on the platform. By offering insightful and detailed reviews, we empower users to make informed decisions about their travel destinations and create memorable experiences.
- **Showcase Diverse Multimedia Content:**  
Enable users to share their travel experiences in diverse formats, including written reviews, images, and videos, enriching the platform with captivating and informative content.
- **User Registration and Profile Creation:**  
Enable user registration and profile creation, allowing users to create personalized accounts, post their reviews, and engage with the other users.
- **Continuous Improvement and Updates:**  
Commit to regular updates and improvements based on user feedback and emerging trends, ensuring the platform remains relevant and competitive in the

long term.

2.2 Target and Audience

The responsible travel destination review website caters to a diverse audience of travelers, including tourists, local residents, and business travelers visiting Toronto. Regardless of their ages, backgrounds, or travel purposes, the platform is designed to accommodate a wide range of preferences and interests.

Section 3: User Interface Design

3.1 Wireframes

• Homepage Wireframe

|                           |               |               |  |
|---------------------------|---------------|---------------|--|
| Logo                      |               | Search Bar    |  |
| -----                     |               |               |  |
| Featured Destinations     |               |               |  |
| -----                     |               |               |  |
| User 1                    | User 2        | User 3        |  |
| Image                     | Image         | Image         |  |
| Destination 1             | Destination 2 | Destination 3 |  |
| Rating                    | Rating        | Rating        |  |
| Reviews                   | Reviews       | Reviews       |  |
| -----                     |               |               |  |
| Explore More Destinations |               |               |  |
| Categories                |               |               |  |

• Destination Review Page Wireframe:

|       |                  |
|-------|------------------|
| ----- |                  |
|       | Logo             |
| ----- |                  |
|       | Search Bar       |
| ----- |                  |
|       | Destination Name |
| ----- |                  |
|       | Image Carousel   |
|       | -----            |

|                            |  |
|----------------------------|--|
| Username                   |  |
| -----                      |  |
| Ratings and User's Reviews |  |
| -----                      |  |
| Other User's Reviews       |  |
| -----                      |  |
| Review 1                   |  |
| -----                      |  |
| Review 2                   |  |
| -----                      |  |
| Categories                 |  |

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- **Sign up Page Wireframe:**

|                                 |  |
|---------------------------------|--|
| -----                           |  |
| Sign Up for Destination Xplorer |  |
| -----                           |  |
| User Information fill-in form   |  |
| -----                           |  |
| Username                        |  |
| -----                           |  |
| Email                           |  |
| -----                           |  |
| Password                        |  |
| -----                           |  |
| Confirmed Password              |  |
| -----                           |  |
| Sign Up Button                  |  |

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### 3.2 Visual Design

## Section 4: Website Functionality

### 4.1 Features and Functionalities

- **Search and Discover:**  
A robust search functionality that allows users to search for specific travel destinations or browse through popular destinations and reviews. Filter options based on location, travel category, ratings, and more, to help users find relevant content easily.
- **User Reviews and Submissions:**
  - An intuitive review submission form, allowing users to share their travel experiences, ratings, and recommendations.
  - Options to upload images and videos, enriching the review content and making it more engaging.
  - User reviews organized by destination, making it easy for others to access relevant information.
- **Privacy and Security:**  
Stringent security measures to protect user data and ensure user trust and privacy.

### 4.2 User Interaction

## Section 5: Technical Specifications

### 5.1 Frontend Technologies

- **HTML:** The foundation of our website, used to structure and organize content elements on each page.
- **CSS:** Styling the website with CSS3, ensuring an attractive and consistent visual

design across all pages.

- **JavaScript:** Implementing interactive elements and dynamic functionalities to enhance user interactions and responsiveness.
- **Angular:** Utilizing Angular as the frontend framework for building a single-page application (SPA) with rich, interactive features and smooth navigation.

## 5.2 Backend Technologies

- **Node.js:** Using Node.js as the server-side runtime environment for its high performance and ability to handle a large number of concurrent requests.
- **Express.js:** Implementing Express.js as the backend framework to build RESTful APIs and handle routing and middleware functionalities.
- **MongoDB:** Storing and managing our data in a NoSQL database like MongoDB, allowing for flexible and scalable data storage.
- **Mongoose:** Utilizing Mongoose as an Object Data Modeling (ODM) library for MongoDB, providing an easy-to-use interface for managing database operations.
- **Authentication and Authorization:** Implementing secure authentication and authorization mechanisms, to protect user data and restrict access to certain functionalities.

## Section 6: Testing and Quality Assurance

### 6.1 Testing Plan

### 6.2 Bug Tracking

## Section 7: Conclusion

## Section 8: References