Business Requirements Document

Project Title: Tahoe Resorts & Lesson Finder

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Project 2

BUSINESS REQUIREMENTS: (NOUNS AND VERBS)

1. **Project Overview** The Tahoe Resorts & Lesson Finder is designed to:

   - Assist users in finding ski resorts, ski school lessons, and ski trails in the Tahoe area.
   - Provide real-time price comparisons for both day tickets and lessons.
   - Allow users to efficiently search and filter results based on key criteria.
   - Enable one-click booking to streamline the reservation process.
   - Allow users to rate and review resorts, trails, and lessons for improved decision-making.

2. **Business Objectives** The system aims to:

   - Centralize information from major Tahoe ski resorts like Heavenly, Palisades, Northstar, and Kirkwood.
   - Improve user convenience by providing real-time price comparison and filtering options.
   - Enhance the booking process through a simplified one-click interface.
   - Provide valuable insights through user-generated ratings and reviews.

3. **Key Stakeholders**

   - **Tourists/Skiers:** Seeking convenient access to trail details, lessons, and bookings.
   - **Ski Resort Partners:** Provide real-time data for prices, trails, and lesson availability.
   - **Platform Administrators:** Manage user data, security, and system performance.

4. **Functional Requirements**

   4.1 **Data Aggregation System**

   - Collects data from Tahoe ski resorts through APIs or web scraping.
   - Ensures data is updated regularly to maintain accuracy.

   4.2 **Filtering and Search System**

   - Users can filter results by price, resort name, rating, trail difficulty, and lesson type.
   - Customizable search options to tailor results based on individual needs.

   4.3 **Booking System**

- Enables one-click booking via integrated partner links.
- Displays booking confirmation details in user accounts.

4.4 **Rating and Review System**

- Users can submit reviews and rate resorts, trails, and lessons.
- Aggregates ratings to provide overall scores for each service.

Nouns:

- Tahoe Resorts & Lesson Finder
- Tourists/Skiers
- Ski Resort
- Partners Platform
- Trail
- Information
- Ski School Lessons
- Day Tickets
- Search Filters
- Booking Confirmation
- Ratings and Reviews

Verbs:

- Assist
- Compare
- Provide
- Enable
- Streamline
- Rate Review
- Collect
- Filter Search
- Book
- Display

Classes

- **User** (Tourist/Ski Enthusiast)
- **Ski Resort**
- **Manager**
- **Trail**
- **Lesson**
- **Books**
- **Review/Rating**

Target Audience

- **Tourists/Skiers:** Looking for comprehensive price comparisons and detailed ski school information.
- **Ski Resort Partners:** Providing accurate data for improved visibility and customer engagement.
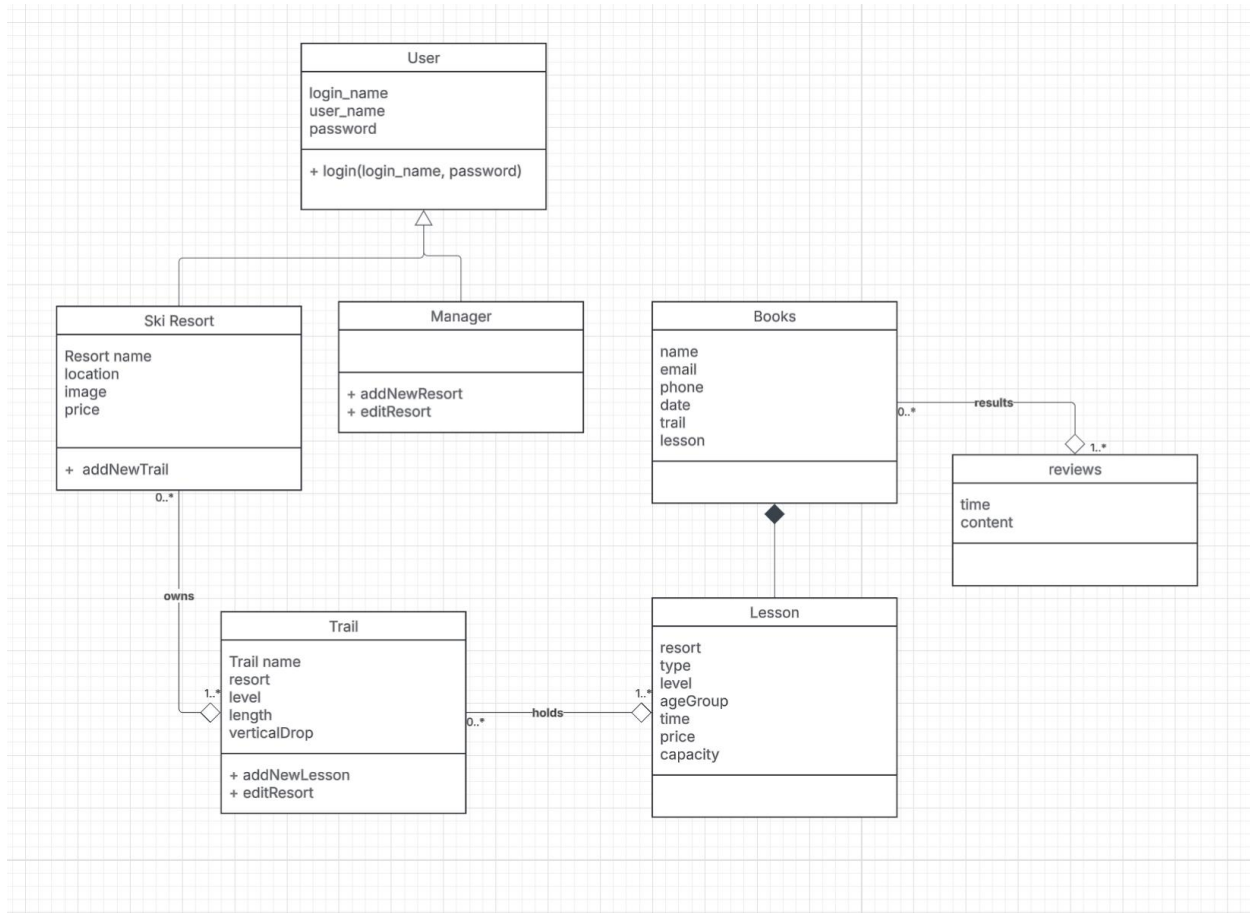
Rules

- All imported ski resort data must undergo validation to ensure accuracy.
- Each resort must have a unique identifier for tracking data integrity.
- User reviews must pass a moderation system to prevent spam or offensive content.

Challenge Questions

- How will the platform ensure real-time price updates are accurate and synchronized across multiple sources?
- What strategies will be employed to present ski trail maps in a user-friendly format?
- How will the platform scale during peak ski season when user traffic is highest?

UML diagram

User Persona

User Persona 1: Sarah

Age: 34
Occupation: Corporate Professional
Income Level: Mid-level (comfortable budget for leisure)
User Age Category: Adult (31–45)
Decision-Making Priority: Convenience and Efficiency

Background Story:
Sarah works a demanding job in San Francisco and is planning a weekend ski trip with friends. She has limited time to research multiple resort websites and wants a platform that offers streamlined comparisons, easy filtering, and quick booking. She's tech-savvy and appreciates tools that save her time and help her make informed decisions.

Scenario & Reason to Use Tahoe Resorts & Lesson Finder:

Needs a fast and simple way to compare ski resorts near Lake Tahoe.
~ Wants to filter by trail difficulty and resort rating to match her group's preferences.
~ Seeks one-click booking to minimize trip planning time.
~ Will leave a review after the trip if the experience is good.

User Persona 2: Carlos

Age: 27
Occupation: College Student
Income Level: Low (budget-conscious)
User Age Category: Young Adult (18–30)
Decision-Making Priority: Price and Value

Background Story:
Carlos is a grad student at UC Davis who wants to take a snowboarding lesson for the first time. He's new to winter sports, and affordability is a top concern. He's looking for entry-level lessons and lift ticket deals. He might travel with friends, so shared recommendations and easy group bookings are a plus.

Scenario & Reason to Use Tahoe Resorts & Lesson Finder:
~ Needs to find the cheapest beginner lessons available.
~ Wants to compare prices across multiple resorts quickly.
~ Looking for trails marked as "Easy" and user reviews for confidence.
~ Prefers mobile access and real-time updates to book last-minute.

User Persona 3: Linda and Mark

Age: 45 & 47
Occupation: Small Business Owners
Income Level: Upper-middle
User Age Category: Older Adults (45–60)
Decision-Making Priority: Family-Friendly Features

Background Story:
Linda and Mark are planning a family ski vacation with their two kids (ages 10 and 13). They're looking for a resort with a good reputation for ski schools and safe, well-rated intermediate trails. They prefer platforms that make it easy to book everything in one place and value user reviews highly.

Scenario & Reason to Use Tahoe Resorts & Lesson Finder:
~ Need to book lessons for kids and suitable trails for themselves.
~ Want to read family-oriented reviews and check safety ratings.
~ Looking for package deals that include both day tickets and lessons.
~ Value a clear, intuitive booking system and detailed trail information.

Mock Interfaces

Trail filter to help users easily find trails for all resort.

Trail filter

locaton	daily price	Resort

Frame 1

Pic	Resort name Resort location Trail name Trail level

Frame 2

Pic	Resort name Resort location Trail name Trail level

Frame 3

Pic	Resort name Resort location Trail name Trail level

Sarah occasionally goes skiing. She uses the trail filter to find the trail that suits her best. She compares different trails to choose which resort ticket she should buy.

Lesson filter to help users easily find ski courses for all resort.

Lesson filter

| lesson type: private/group | | lesson level: beginner/advanced | | adult/child |

| resort | | date | | period: morning/afternoon/full day |

lesson	level	adult/child		price
resort	time window			

lesson	level	adult/child		price
resort	time window			

Carlos will use the course filter to find the cheapest beginner course, he doesn't care about the resort, he only cares about the price.

lesson register

name

date

number of party

price: xxx

level: first time

child

submit

Linda will be purchasing lessons for her children and looking for routes for her Mark at the same resort