Vanier College

Software Development AEC

Web Services

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Deliverable 0

Report: Project Description and Mock-up Design

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SkiSmart: The Ultimate Ski Resort Finder

Description

SkiSmart is an application designed for ski enthusiasts looking for the perfect skiing destination. It offers users tailored resort recommendations based on location, date and distance preferences.

Key Features

1. **Personalized Search:** Users can input their postal code or city, select their desired skiing date, and adjust their preferred search radius for resort recommendations.

2. **Comprehensive Resort Details:** Each ski resort listing provides users with essential details, from weather forecasts, basic information about the resort and user reviews.

3. **Interactive Map View:** An integrated map view allows users to visually explore resorts in relation to their location.

4. **User Profiles:** Skiers can create profiles to save favourite resorts, access past searches, and customize app settings.

5. **Algorithmic Resort Rating:** Resorts are rated based on current weather conditions (temperature, wind conditions), snow quality (fresh snowfall, snow depth), and user reviews, ensuring skiers find the best conditions for their trip.

Project Objective

To create a user-centric platform that simplifies finding the best ski resorts based on real-time conditions and user preferences, fostering a vibrant community of skiing enthusiasts.

Chosen Database

After careful consideration, we've chosen MongoDB as the database for SkiSmart. MongoDB's flexible schema design, scalability, and geospatial query support align well with our project's dynamic data needs and location-based features. It offers real-time data handling and a developer-friendly JSON-like document format. However, we must ensure proper data modelling and address the potential learning curve for team members new to NoSQL databases.

Mock-up Design

1. Home Page:

- **Logo and App Name**
- **Navigation Bar**
- **Search Bar:** Allows users to enter their postal code
- **Date Selector:** Choose the desired skiing date
- **Distance Slider:** Adjust the search radius (Km, Miles)
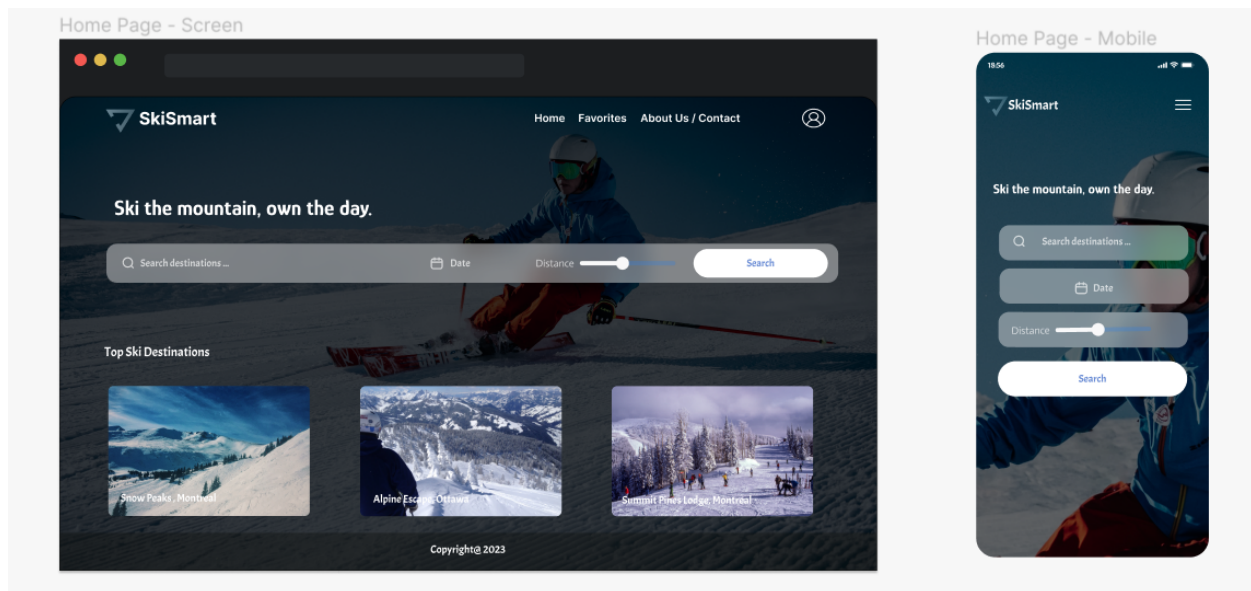
2. Results Page:

- **List of Ski Resorts:** Displayed based on the algorithm's rating.
  Each Resort can have:
    - Thumbnail Image
    - Name of ski resort (we can provide link)
    - Distance from the user's location
    - Algorithmic rating (e.g. star rating, score out of 10)
- **Filter and Sort Options:** Allow users to refine results. For instance, sort by highest rated or nearest by location.
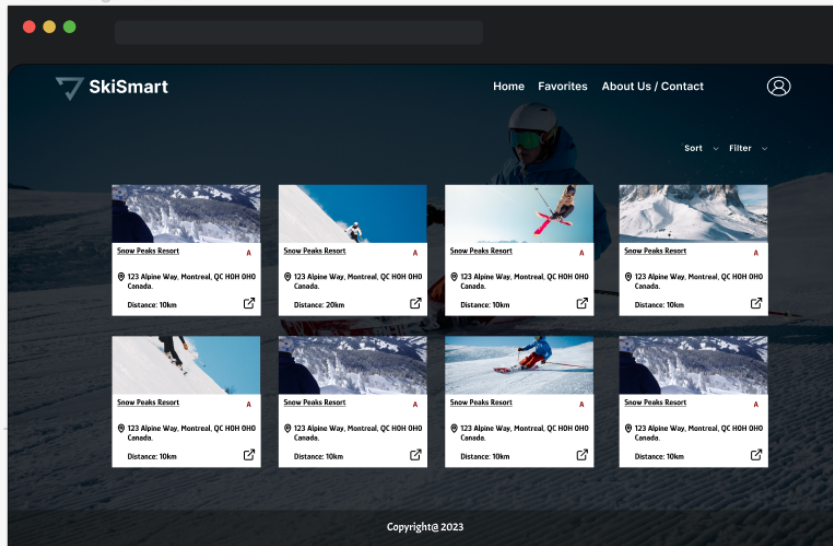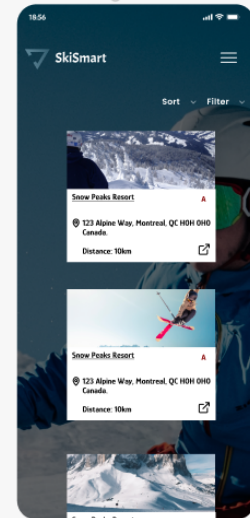
3. Resort Details Page:

- **Carousel of Resort Images:** Showcase the beauty of the resort.
- **Detailed Weather Report:** Current conditions, forecast, wind speed, etc.
- **User Reviews:** Display ratings and feedback from other skiers.
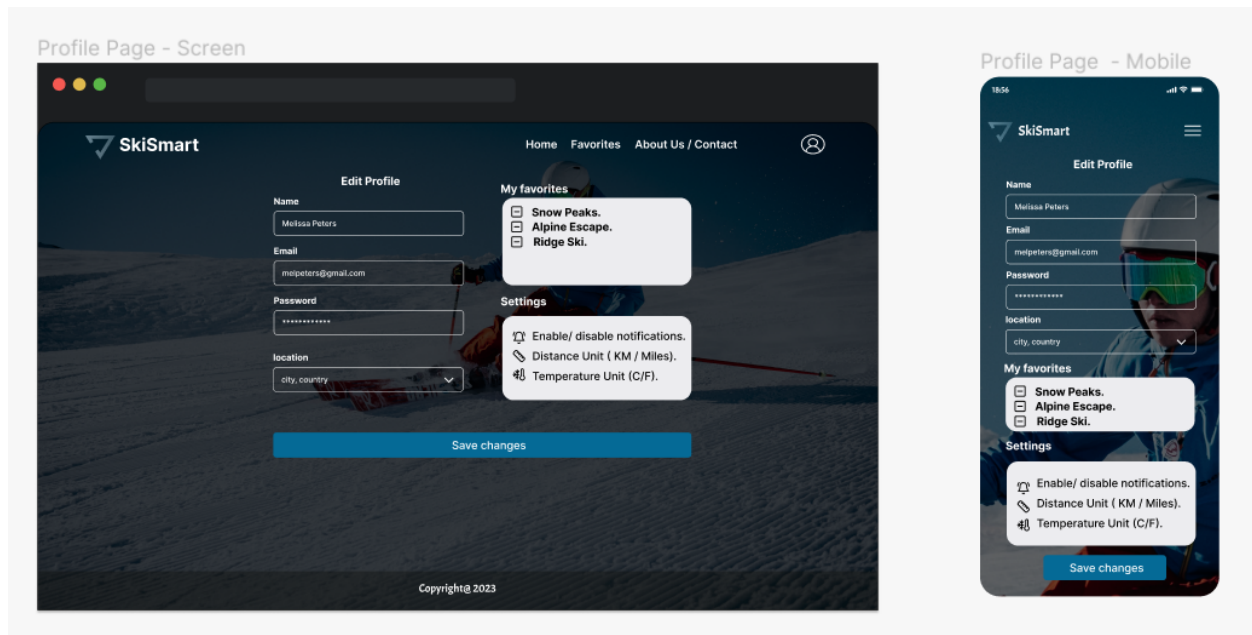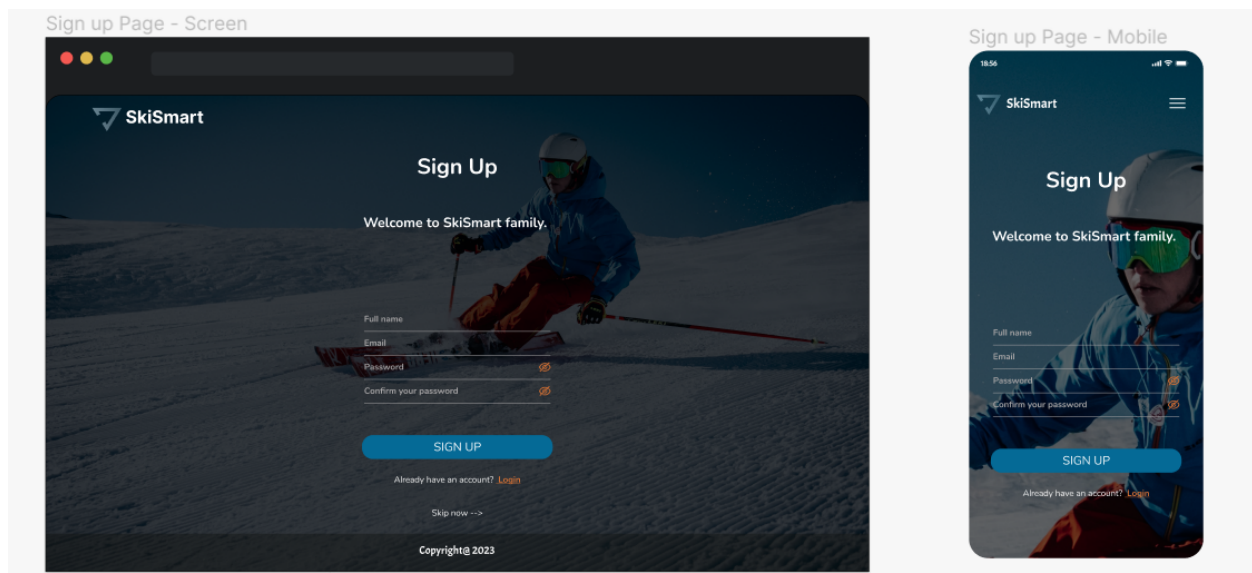- **Contact and Booking:** Provide a link to the ski resort.
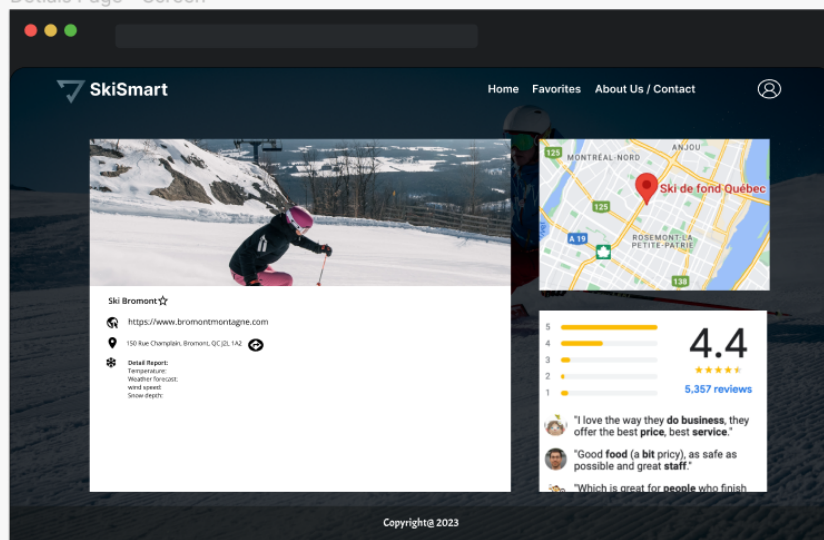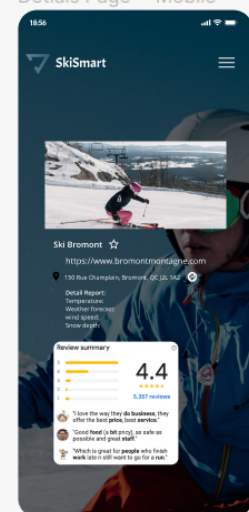
4. User Profile & Settings:

- **User Info:** Display name and email.
- **Saved Resorts:** List of favourite or saved resorts for easy access.
- **App Settings:** Distance unit (km/miles), temperature unit (Celsius/Fahrenheit), etc.
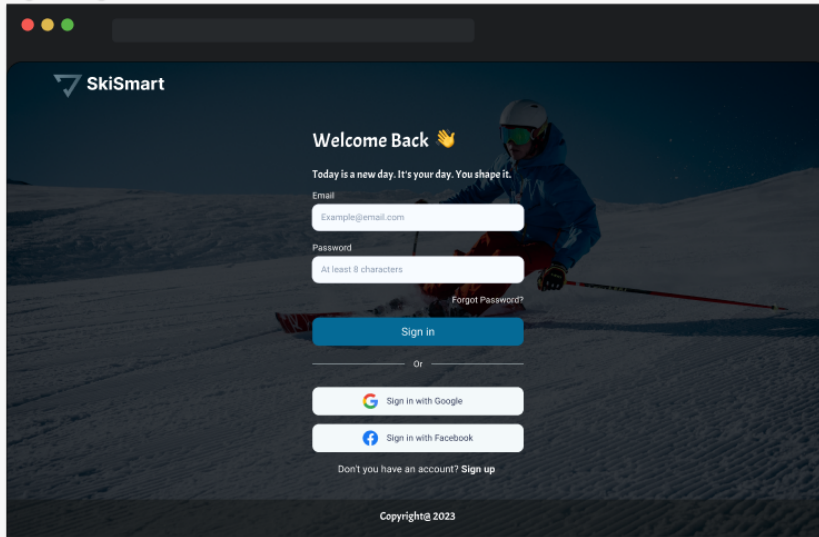
5. Sign up/Log in Page:

- **User Info:** name, email, and postal code (city).

SkiSmart

Welcome Back 👋

Today is a new day. It's your day. You shape it.

Email

Example@email.com

Password

At least 8 characters

Forgot Password?

Sign in

Or

Sign in with Google

Sign in with Facebook

Don't you have an account? **Sign up**

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SkiSmart

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