

PROJECT CHARTER	
Project Name	SK Trails
Date Produced	October 6, 2024
Project Goals	The SK Trails project aims to create an intuitive platform for both novice and experienced hikers to discover suitable hiking trails based on their preferences and skill levels. Platform can provide users with various amounts of hiking trails in Saskatchewan, which will enhance user engagement by offering detailed information about the duration, length, terrain, difficulty and user reviews of the trails. Our goal is to enhance the overall hiking experience by providing personalized recommendations, helping users make informed decisions that align with their fitness level, interests, and outdoor goals. This will promote outdoor activity, environmental awareness, and healthier lifestyles for people within the region.
Project Objectives	<ol style="list-style-type: none"> 1. Develop a user-friendly interface which will allow users to browse and filter hiking trails of their choice by region, duration, length, terrain, difficulty and user ratings 2. Complete project planning documentation by the deadlines 3. Design the MVP using a programming environment combination of HTML, CSS/Bootstrap, JavaScript, PHP/MySQL), etc
Project Constraints	<ol style="list-style-type: none"> 1. The project must be completed within a set timeline 2. The budget for development, hosting, and maintenance must not be exceeded. 3. Our team may be limited in size or skill set to implement all features 4. The app should integrate with trail maps and provide reliable information. 5. Access to trail data may be restricted or reliant on third-party services or organizations. 6. Ensuring the accuracy of trail information to avoid liability for incorrect recommendations. 7. The interface must be easy to use for beginners to experienced hikers.
Project Budget	<ol style="list-style-type: none"> 1. Use free access to Hercules for a webspace localhost or Amazon Lightsail as an open-source hosting Dev/UAT 2. Estimated cost of \$96 a year for hosting website using Amazon Lightsail.

Project Sponsor	Yogesh Sharma, Lecturer, Software Systems Engineering
Project Manager	Dmytro Stepaniuk, Grant Zhao, Kamran Aqeel
Additional Key Project Stakeholders	
Dmytro Stepaniuk (Software Engineering student), Grant Zhao (Software Engineering student), Kamran Aqeel (Software Engineering student)	
Overall Project Milestones	Dates
1) Project planning documentation (Business case, project charter, scope, requirements, stakeholder registry, roles and responsibilities)	12/10/2024
2) Project visualization documentation (Envisioned user stories and MVP)	19/10/2024
3) Start developing application (MVC)	24/10/2024
4) Final Design and implementation	23/11/2024
5) Presentation	5/12/2024
Overall Project Risks	
1) The team may need to rearrange milestones due to adding unplanned design features	
2) The team may run out of time to complete all the planned features and functionality of first MVP	
3) The team may not have sufficient time to explore extra features and functionality using multiple MVPs	
4) Webspace hosting / servers, programming environment may crash and cause operational issues	

Problem 1: Economic Factors
The hiking destinations should be able to afford proper resources to further develop the hiking trails for better user experience.
Problem 2: Sustainability and Environmental Factors
When people hike, some are bound to litter on the trails.
Problem 3: Ethics

Problem 1: Economic Factors

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Problem 2: Sustainability and Environmental Factors

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Users using poor language in comments and reviews would leave a strong message for other people that our website is not family friendly.

Problem 4: Regulatory Compliance (Security and Access)

Malicious people could hack the website and leave misinformative reviews and/or comments to various trails, discouraging hiking and use of SK trails.

Problem 5: Reliability

The data we collect for all the trails of Saskatchewan can be inaccurate since we can't go to all of those trails in person. The information would be difficult to collect unless we outsource