University of Regina | FACULTY OF ENGINEERING & APPLIED SCIENCE

BUSINESS CASE	
Proposed Project	EZParking
Date Produced	September 22, 2022
Background	Driving is one of the preferred means of transportation for modern people, and vehicles have brought people a lot of convenience. At the same time, finding a parking space is also a problem that every driver must face. A suitable parking space near the destination is very important for people, it can shorten the walking time for users to reach the destination. Therefore, it is necessary to have software that can query the nearest suitable parking space for the user. It saves the user time to find a parking space and avoids unnecessary walking distance for the user.
Business Need/ Opportunity	Our software is dedicated to recommending the nearest parking space through the pre-set data and real-time data, calculates the results and sends to the client application to recommend which parking lot the user goes to, resulting in the shortest walking distance. We found that there is no similar application on the market at present. The existing application can only recommend all nearby parking lot locations but does not tell the user which parking lot has parking spaces. Our application will make it the priority to inform the customer which nearest parking lot is available.
Options	• Build a backend web application and a client-side web application and integrated with location and navigation API. • Do nothing.
Cost-Benefit Analysis	
Option A	Build a backend web application and a client-side web application Benefit: • Web application is easier to develop than native application, and the application can be shared across platforms with the same user experience. Cost: • Location and navigation API may cost money. • Native application provides a smoother user experience then web application.
Option B	Do nothing Benefit: • Easy to accomplish.

	Cost: • People still have difficulties to find a park space.
Recommendation	
Option A is recommended. Build a backend web application and a client-side web application will provide a an easier way to make decisions, and it won't matter if the project fails.	