

BUSINESS CASE	
<b>Proposed Project</b>	Climate Awareness
<b>Date Produced</b>	Feb 10 ,2021
<b>Background</b>	<p>Climate change app that educates the Community about climate issues. Climate change can be caused by various activities. The users will have an awareness of climate change and how to take action to reduce their carbon footprint. this project is intended to spread awareness through educating community so that they can improve their lifestyles and come to together to change the world.</p>
<b>Business Need/ Opportunity</b>	<p>The current state of existing tool provides a way the user can reduce their carbon footprint and provides useful links that the user can click and further study to take action. I see an opportunity to rebuild this design and include more functionality as the application lacks interactive design. Some key aspects of this changes are the following:</p> <ul style="list-style-type: none"> <li>• Providing navigation screen where the user can navigate varies screens</li> <li>• Chat system which users can communicate with other</li> <li>• Maps which allows user to share ride to work, school ,etc.</li> <li>• Discovery page where the user can access various resources and take action</li> <li>• Ability the user shares their progress (carbon footprint score, rewards badges for achieving their goals) with others</li> <li>• Questionnaires to determine user's carbon footprint</li> </ul>
<b>Options</b>	<p>the potential approaches to complete the project includes:</p> <ul style="list-style-type: none"> <li>• Bringing my design ideas to live first using adobeXD then develop the following:</li> <li>• signup/login functionality as well as verification</li> <li>• Welcome screen and questionnaires</li> <li>• Creating of user profile as well as obtaining results from completing questionnaires</li> <li>• Map screen to see active users (if their location is on)</li> <li>• Chat screen, where users can communicate</li> <li>• Discovery page that has useful information that the user can interact with. Some of these resources are the ones found on the sustainable website which is related to the topic of concern</li> </ul>
<b>Cost-Benefit Analysis</b>	

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1: Questionnaires:

- Cost – time required to design and develop
- Benefits – determines a user's and unique carbon score to understand how much CO2 they are producing. This allows me to accurately show list of things that user can work on.

2: Map:

- Cost – if this app were to release on the app/play store then google maps is cost money. Also, implementation of this features cost time as well.
- Benefits – provides functionalities such showing user on the map, a user can request another user to share ride. Displays navigation route

3: chat

- Benefits – real time chat system, increase communication, faster response
- Cost – firebase real time database cost money

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## Recommendation

For creating chat, there are other free open source such as java spring boot and other frame work that can help build free chat system. However, that's not an approach I am taking for this project due to working alone.

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