Product Document

Audience: Future sponsor

DIFFABLE ASSISTOR

SUPPORT DIFFERENTLY ABLED IN EAST GIPPSLAND

Team ALPHA

VERSION 1.1

5/24/2020

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INTRODUCTION

The purpose of the product document is to provide a high-level summary of what our web application (*Diffable Assistor*). This document includes the value of our project, high level of data sources, testing for future sponsors. Our future sponsors could have a conceptual idea about our product and could use it to look for data sources details and testing information in the support document and the maintenance document.

1. FUNDAMENTAL PRODUCT OVERVIEW

Diffable Assistor aims to alleviate the impacts on the Disabled people in East Gippsland who reported a need for assistance due to a "profound or severe core activity limitation" due to the climatic crisis. Bushfires have been a recurring natural disaster in Australia Vic-Bushfires. Disabled communities are the most vulnerable to the rapidly occurring wildfires, hurricanes and air pollution since many of them live with already compromised health conditions and limited mobility. They are those people who have the least access to emergency support in case of a climatic crisis. people in East Gippsland have reported a lack of needful assistance due to disability. As reported by the disabled people themselves East Gippsland needs Assistance.

Website URL	https://disablesupporteastgippsland.com/
Product Video	https://www.youtube.com/watch?v=yenHdNMEh5Y&rel=0

1.1 PRODUCT FEATURES

Feature A	List Service Directory
Description	This function allows users to list down the community support services in east Gippsland with relevant contact information
Purpose	Users can select the category of community support services from the list drop down or utilize and add the predefined sub-category to search the services.

Feature B	The Service Finder
Description	This function provides users with a map which locates all the service providers details for each category
Purpose	Visually view the community service provider's location and access the contact information

Feature C	Accessibility Options

Description	Accessibility features will allow the specially challenged person to access the website using advanced accessibility tools. Users can enter the website as per their accessibility needs.
Purpose	To access the website with advanced accessibility options depending on the user preference or disability. Overall, soothe the strain on a person's eyesight.

2. BENEFITS OF THE SYSTEM

- A directory of services designed specifically for the disabled people in East Gippsland under one central hub which includes assistance for services including Living, Mental Health, Advocacy, Recreational, Job Seeking which addresses their core living activities.
- Access information and contact details under one roof directly from the website
- Components that are accessible by disabled people which includes colour-blindness, farsightedness and blurry vision and motor disability like wheelchair. Disabled-friendly website to address the disabilities as they clearly enable a broader section of society to access the internet and find information

3. SO WHAT MAKES US DIFFERENT ?

- An accessibility feature on how to access the website based on the physical needs which includes vision, hearing and motor impairment.
  Features include for differently abled people as follows.

  Colour-blindness→ *Grayscale* to reduce the eye strain
  Farsightedness or Blurry vision → *Font resize*
  To ease cognitive processes and website browsing → *Hyperlink* enable
  Blind person assistor → *Screen reader*.

4. TARGET AUDIENCE

Disabled people in East Gippsland who fall under age group 30-59.They are those people who have reported the most in needing assistance with their core activities East Gippsland needs for Assistance

Includes people with colour-blindness, blurry vision and farsightedness.

5. HUMAN RESOURCES

Table 1

Team Member	Background	Role in team	Linkedin
Sushant Gajankush	MBIS	Business Analyst	www.linkedin.com/in/sushant-g
Amala Richu	MDS	Data Analyst	linkedin.com/in/amala-richu-0b4a59128/
Jin Yang	MIT	Developer	linkedin.com/in/jin-yang-744899162

6. DATA SET

Data Sources (Open datasets)						
Names	Physical Access	Frequency of Source Updated	Frequency of iteration system Updates	Link	Granularity	Copyright
Victorian Government Organizations, services, description, and contact information	XLSX	Annually	Annually	Service Directory - Victoria XLSX	Low(By Services in East Gippsland)	Vic.gov.au - Service Directory
Data About service providers in East Gippsland categorized	PDF	Annually	Annually	East Gippsland Service Directory PDF	High(By service providers)	East Gippsland.Vic.Gov.Au

Data about the contact details for each service provider in East Gippsland	PDF	Annually	Annually	East Gippsland Service provider Contact Information PDF	Low(By Location)	East Gippsland.Vic.Gov.Au

7. SECURITY ASPECTS

This document details the security testing aspects for our build which includes:

- Test for Malware
- Website Errors Blacklisting Status
- Injected SPAM and Out-of-date
- Test if the website can be recovered by the backup file
- An in-depth scan analysis for vulnerabilities and misconfiguration in our web application

Refer the System Support Document here: Google Drive - System Support Document under [6.2.3] Security Testing

7.1 SYSTEM/MAINTENANCE INFORMATION:

The purpose of the Maintenance document is for a technical person to maintain our Website *"Diffable Assistor".* The document provides system structure design, major components diagram, plugin information, and functional breakdowns. The support document is to provide information to the Future Sponsor or System Administrator on how to operate our web application (Diffable Assistor). This information includes how to run the website successfully, backup and restore the system, preparation for the future site, training requirement for support staff, data loading, future change management, and testing carried out.

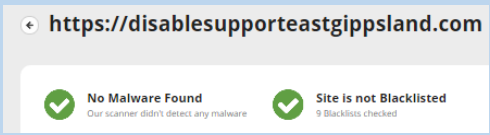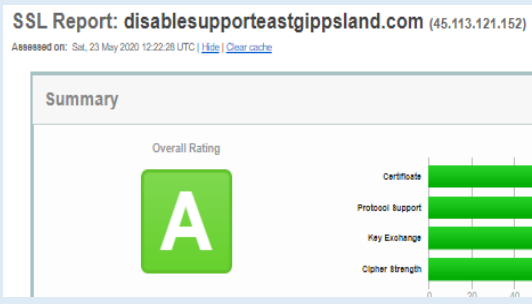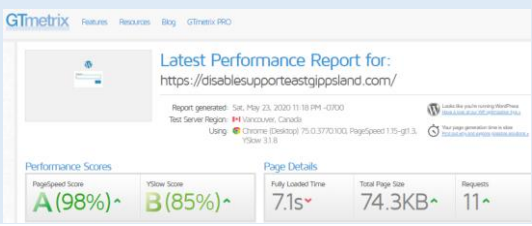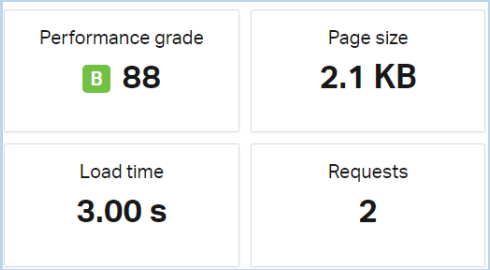| Maintenance Document URL	Google Drive - Maintenance Document
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8. FUTURE PROSPECTS

All the details that are required to understand the structure of the product are mentioned in product and maintenance document. Please refer them to understand the security, server and database connectivity. A person that is required to make changes in future must be aware of web development languages such as PHP, JavaScript and technologies such as WordPress, as this product is mainly developed using WordPress. He must be aware of the hosting platform for the product which is Hostgator, in this product or any other cloud management services, he wishes to use. We have used MySQL as Database Management System to integrate with the website. The Data Model is built in Python, so he must be aware of using Python and related packages. All the backups are done using Updraft Backup plugin and google drive is the location set by the plugin. The developer must use his skills to make this recommendation work accurately.

9. TESTING

Testing Information

Test Type	Description	Tool	Test Result	Tester

Security Test	Test for Malware, Website Errors Blacklisting Status, Injected SPAM and Out-of-date	Sucuri Site Check		Sushant
Security Test	An in-depth scan analysis for vulnerabilities and misconfiguration in our web application	SSL Labs		Sushant
Backup and recovery Test	Test if the website can be recovered by the backup file	Updraft Plus Backup/ Rest ore	Passed	Sushant
Speed and Performance Test	Analyse the speed of a website to acknowledge how well it performs.	Gtmetrix		Sushant
Load Test	Help to make sure the website is faster by identifying what about a webpage is fast, slow, too big or other problem	Pingdom		Sushant
Acceptance Test	Test if all the functions work well.	Check the website perfoming	Passed	The Alpha