# **Installation Guide**





# **AI MUSKS**

Version 2.0 approved

Prepared by

**Syed Usman - 20002484** 

Muhammad Shazail Sohail - 19736624

Shuber Ali Mirza - 20027047

Swapnil Rajesh Khatavkar - 20542401

Kshitiz Saini - 20857846

**Curtin University, Dubai** 

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## **Executive Summary**

This document provides a manual installation procedure for the AI MUSKS platform. This allows users to customize the environment to some extent. It also leverages users to explore other operating systems such as Debian, CentOS, Red Hat, and Windows Subsystem for Linux. The document explains the method of procedure on Ubuntu 22.04. User is expected to install similar packages/requirements if they attempt to run this on other Operating Systems.

### **Installation Requirement**

- Installation requires Ubuntu 22.04 as the operating system.
- Python 3.6 is installed on the base operating system or under the environment.

### **Installation of Python 3.6 using Conda (Optional)**

#### **Step 1: Update system repositories**

Press "CTRL+ALT+T" to open the terminal of your Ubuntu 22.04 and run the below-given command to update system repositories:

#### Step 2: Install curl package by executing the following commands in the Ubuntu terminal.

```
sudo apt update
sudo apt install curl -y
```

#### **Step 3: Prepare Anaconda Installer**

```
cd /tmp
curl --output anaconda.sh https://repo.anaconda.com/archive/Anaconda3-5.3.1-Linux-
x86_64.sh
bash anaconda.sh
```

# Step 4: Verify the Anaconda installation by running the following command in the Ubuntu terminal

conda list

### **Creating Python 3.6 environment using Conda (Optional)**

Step 1: In the Ubuntu terminal run the following commands to create Python 3.6 environment.

conda create --name aimusks python=3.6

# Step 2: In the Ubuntu terminal run the following commands to activate the environment created earlier.

conda activate aimusks

### **Downloading platform files**

#### Step 1: Install git to download the platform files.

```
sudo apt update
sudo apt install git -y
```

## Step 2: Download platform files from bit bucket platform by using following commands in the Ubuntu Terminal

```
mkdir aimusks
git clone https://Swapnil28527@bitbucket.org/ai-musks/aawb.git
```

### **Setup AI-MUSKS platform**

#### Step 1: Install the python requirements needed to run the AIMUSK platform.

cd aimusks
pip install -r requirements.txt

#### **Step 2: Object Detection Model requirements.**

cd models/research/object\_detection
pip install -r requirements.txt

#### **Step 3: Install TensorFlow 1.15.**

cd ../../ wget

https://files.pythonhosted.org/packages/3f/98/5a99af92fb911d7a88a0005ad55005f35b4c1b a8d75fba02df726cd936e6/tensorflow-1.15.0-cp36-cp36m-manylinux2010 x86 64.whl pip install tensorflow-1.15.0-cp36-cp36m-manylinux2010 x86 64.whl

If all the requirements are successfully installed, then the platform setup is completed. Users can move to the User Manual to run the platform.

### File List

The following section highlights important files and their use within the platform.

### Glossary:

Term	Definition			
Django App	Module of Django that holds views, templates, and models for a specific feature			
View	A view is the intermediary between a Django template and a database model. It			
	handles all html requests and database accesses for communication between			
	the front and back ends.			
Template	An html file that allows the use of Django code blocks, which allow the use of			
	things like loops and if conditions within the html. It also allows the use of			
	variables, passed by a view from models, to be used in the frontend			
Model	A database table, defined directly through the Django framework. Used to store			
	all the data for the website			
URL	An address defined for each template to be displayed in a web browser. Calls a			
	view to define what functionality will be allowed on the page			

### Django:

All file paths start from the root folder of the Django project (where the manage.py file is located).

File	Description
manage.py	Main script to run Django commands, including running the
	development server, creating super users, making
	migrations, etc.
db.sqlite3	Current state of the sqlite database. Can be reset if this file
	is deleted
/musk/settings.py	Main file that holds all the configurations of the whole
	Django project, including all Django extensions, and custom
	Django apps.
/musk/urls.py	Main file that holds the urls for all the views from all Django
	apps.
/musk/asgi.py	Default Django file, document link present in file for more
	info
/musk/wsgi.py	Default Django file, document link present in file for more
	info

User Manual for AI MUSKS	Page
/musk/_initpy	Default Django file, document link present in file for more info
/media/	Folder that holds media files, like images, for the whole
/media/profile_pics/	Django project Folder to store custom profile pics, uploaded by users
/media/prome_pics/ /media/pageImages/	Folder to store images got from users for all the image input
/ incuta/ page images/	mode pages
/custom/	Folder to store files for the "custom" Django app
/custom/admin.py	Used to register new models for access through Django's
,,	admin page
/custom/apps.py	Default Django file, defines the Django app name
/custom/forms.py	Holds Django forms, made for use in templates
/custom/models.py	Holds all the models used for the "custom" Django app
/custom/signals.py	Holds all the signals for the "custom" Django app
/custom/tests.py	Used for testing "custom" Django app
/custom/urls.py	Used for storing all URLs for the views and templates for
	the "custom" Django app
/custom/views.py	Stores the views used that handle templates and models for
	the "custom" Django app
/custom/templates/custom/	Standard Django templates folder convention, for storing all
	the templates for the "custom" Django app
/custom/static/	Folder for storing css, js, images, and other static files for
/:/	the "custom" Django app
/imageInput/	Folder to store files for the "imageInput" Django app
/imageInput/admin.py	Used to register new models for access through Django's
/imagaInnut/anns ny	admin page  Default Django file, defines the Django app name
/imageInput/apps.py /imageInput/models.py	Holds all the models used for the "imageInput" Django app
/imageInput/tests.py	Used for testing "imageInput" Django app
/imageInput/urls.py	Used for storing all URLs for the views and templates for
/ imagemput/ uris.py	the "imageInput" Django app
/imageInput/views.py	Stores the views used that handle templates and models for
, 5 1 , 13	the "imageInput" Django app
/imageInput/templates/imageInput/	Standard Django templates folder convention, for storing all
	the templates for the "imageInput" Django app
/imageInput/static/	Folder for storing css, js, images, and other static files for
	the "imageInput" Django app
/imageInput/static/outputHTML/	Stores the html files created once a user makes an image
	input mode webpage. Folder structure used to store html
	and png files: /outputHTML/ <username>/<projectname>/<pagename>.html, <pagename>.png</pagename></pagename></projectname></username>
/imageInput/ImageInputSrc	Contains all the source files for the image input mode
/ magemput/ magemputore	machine learning and image detection.
/textInput/	Folder to store files for the "textInput" Django app
/textInput/admin.py	Used to register new models for access through Django's
, P , P.	admin page
/textInput/apps.py	Default Django file, defines the Django app name
/textInput/models.py	Holds all the models used for the "textInput" Django app
/textInput/tests.py	Used for testing "textInput" Django app
/textInput/urls.py	Used for storing all URLs for the views and templates for
	the "textInput" Django app
/textInput/views.py	Stores the views used that handle templates and models for
	the "textInput" Django app
/textInput/templates/textInput/	Standard Django templates folder convention, for storing all
	the templates for the "textInput" Django app

/textInput/static/	Folder for storing css, js, images, and other static files for the "textInput" Django app
/textInput/static/outputHTML/	Stores the html files created once a user makes an image input mode webpage. Folder structure used to store html files: //outputhtml/ <username>/<pre>/<pagename>.html</pagename></pre></username>
/TextInputSrc/	Stores files used for generating html pages for both the text input and image input modes, hence it's located in the root folder, instead of just in the "textInput" Django app folder
/templates/	Folder to store templates used for the allauth Django library, used for making post requests, for login, signup, password change, and other user authentication functionalities that Django allauth library offers

### **Frontend:**

File	Description
Custom/templates/custom/base.html	This File contains the navigation bar of
, , ,	the website and container div which uses
	block content for other pages to be
	extended
Custom/templates/custom/home.html	This file contains the home page HTML
, , ,	code. It has navigation buttons to a new
	projects, my projects, and login
Custom/templates/custom/profile.html	This file contains the profile page html
, , , , , ,	code. This page shows the logged-in user
	information
Custom/templates/custom/projects.html	This file contains the projects page html
	code. This page shows all the projects of
	the user and filters it according to the
	build category under their header
Custom/templates/custom/purpose.html	This file contains the purpose page html
	code. This page contains the form to
	collect the basic data of the website
Custom/templates/custom/signuppage.html	This file contains the signup and login
	page html code. This page is used for login
	and singup purpose
Custom/static/css/Home.css	This file is used for the designing
	elements of Home Page
Custom/static/css/Purpose.css	This file is used for the designing
	elements of the Purpose page
Custom/static/css/Signup.css	This file is used for the designing
	elements of the Signup and login page
imageInput/templates/imageInput/text_input.html	This file contains the Html code for a
	single Image input project. This page list
	total number of pages of the website.
imageInput/templates/imageInput/	This file contains the html code for image
text_input_detail.html	input mode. This page gives option to user
	to select the hand-drawn image of the
	webpage they want to create
imageInput/static/css/image_input_detail.css	This file is used for the designing
	elements of the Image input mode page
imageInput/static/js/ image_input_detail.js	This file contains the functionality of how
	the user can choose images using a

	different method.
imageInput/static/outputHTML/*	This folder contains the saved files of the
	image input mode projects and their web
	pages as a backup
textInput/templates/textInput/customization.html	This file contains the Html code for the
	customization page. This page shows the
	embedded Html page created by Image or
	text input mode and gives the form to
	make changes to the element of the
	embedded page and also gives the
	download functionality.
textInput/templates/textInput/text_input.html	This file contains the Html code for a
	single Text input project. This page list
	total number of pages of the website.
textInput/templates/textInput/	This file contains the Html code of the text
text_input_detail.html	input detail page. This page contains the
	counters for the element user wanted and
	also gives the text area for text
	description they want in their custom
	build web page
textInput/templates/textInput/customization.css	This file is used for the designing
	elements of the customization page
textInput/static/css/text_input.css	This file is used for the designing
	elements of the text_input page
textInput/static/css/text_input_detail.css	This file is used for the designing
	elements of the text_input_detail page
textInput/templates/textInput/customization.js	This file conatins the functionality for the
	elements changes that are shown in the
	customization page form including the
	download functionality
textInput/static/js/ text_input_detail.js	This file contains the functionality for text
	input detail page which are counters of
	the specific element
textInput/static/outputHTML/*	This folder conatins the projects and
	webpage created by the user using text
	input mode.

### **PYtoHTML:**

File	Description
textInput/TextInputSrc/Button.py	This class contains the implementation of
	the button web element. It inherits from
	Element class and the main functions here
	are the ElementToCSS and
	ElementToHTML functions
textInput/TextInputSrc/CheckBox.py	This class contains the implementation of
	the checkbox web element. It inherits
	from Element class and the main
	functions here are the ElementToCSS and
	ElementToHTML functions
textInput/TextInputSrc/DropDown.py	This class contains the implementation of
	the dropdown web element. It inherits
	from Element class and the main
	functions here are the ElementToCSS and
	ElementToHTML functions

textInput/TextInputSrc/Element.py  This class is the parent class for all the webpage elements, it contains the getter and setter functions and the fields shared amongst the elements for CSS textInput/TextInputSrc/FlexiBox.py  This class contains the CSS and the ElementToGSS as well as the ElementToGSS and the webpage  textInput/TextInputSrc/Footer.py  This class contains the implementation of the footer web element. It inherits from Element class and the main functions here are the ElementToGSS and ElementToGSS and ElementToGSS and the ElementToGSS intention for the form component of the webpage.  textInput/TextInputSrc/Header.py  This class contains the implementation of the header web element. It inherits from Element class and the main functions here are the ElementToGSS and Element to Ele	Oser Munutu joi Al MOSKS	
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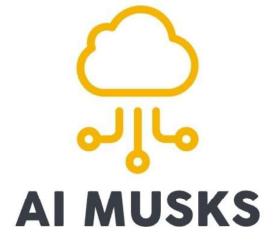
	ElementToHTML functions
textInput/TextInputSrc/TextNLP.py	This class is responsible for the NLP part
	of the program. The process function of
	this class takes a text paragraph as an
	input and outputs a list with the object,
	attributes and adjectives
textInput/TextInputSrc/Webpage.py	This class is the main backbone of the
	image input mode. It contains the list of
	elements on the webpage and the
	WebpageToHTML function converts this
	list into a html webpage
textInput/TextInputSrc/ImageToHTML.py	This class is used to convert the text file
	outputted by the image input mode into
	an HTML page using the createHTML
	function of this class
textInput/TextInputSrc/RadioButton.py	This class contains the implementation of
	the radio button web element. It inherits
	from Element class and the main
	functions here are the ElementToCSS and
	ElementToHTML functions

### ML:

File	Description
imgtInput/imgInputSrc /Preprocess.py	This function is used to process the
	uploaded image into the correct size and
	convert the image into a grayscale image
	for better recognition.
imgtInput/imgInputSrc /main.py	This is the main function, which receives
	the image, processes the image using
	OpenCV and TensorFlow and creates a list
	of elements that are passed to the next
	function to generate the HTML code.
imgtInput/imgInputSrc	Trained model weights used to recognize
/frozen_inference_graph_816.pb	the objects.

# **User Manual**





# **AI MUSKS**

Version 2.0 approved

Prepared by

Syed Usman - 20002484

Muhammad Shazail Sohail - 19736624

Shuber Ali Mirza - 20027047

Swapnil Rajesh Khatavkar - 20542401

Kshitiz Saini - 20857846

**Curtin University, Dubai** 

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## **Table of Contents**

Table of Contents	34
Revision History	35
Executive Summary	
Execution:	36
Accessing GUI:	36
Login:	37
Sign-Up:	38
User Profile Customization:	38
User Home Page:	39
My Project:	39
Creating New Project:	40
Image Input Mode:	40
Page Customization - Image Input Mode:	41
Page Customization - Element Editing:	42
Page Customization – Page Download	42
Page Customization - Post Download	43
Text Input Mode:	43
Text Input Mode – Element Customization:	44
Text Input Mode – Page Customization:	46
Text Input Mode - Page Download:	47

# **Revision History**

Name	Date	Reason for Changes	Version
AI MUSKS - Product Manual	01 – December – 2022		1.0

## **Executive Summary**

This section of the document will give a walkthrough of the flow of events when a user uses the AI MUSKS website.

#### **Execution:**

To start the program, we start the Django server. To start the Django server, open the Ubuntu terminal and execute the following command.

#### python3 manage.py runserver

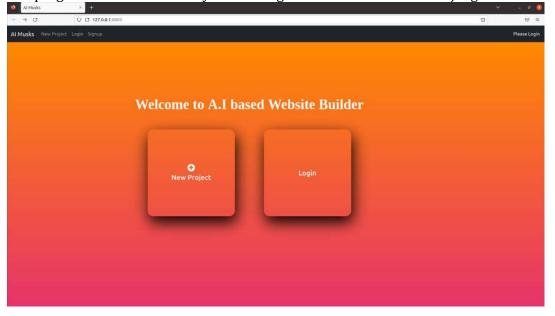
The output below shows that it runs successfully.

```
(capstone) swapnil@swapnil:~/ai-musks/aawb/musk$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
/home/swapnil/anaconda3/envs/capstone/lib/python3.6/site-packages/object_detection/utils/visualizatio
n_utils.py
WARNING:tensorflow:From /home/swapnil/ai-musks/aawb/musk/imageInput/ImageInputSrc/main.py:60: The nam
e tf.GraphDef is deprecated. Please use tf.compat.vl.GraphDef instead.
WARNING:tensorflow:From /home/swapnil/ai-musks/aawb/musk/imageInput/ImageInputSrc/main.py:61: The nam
e tf.gfile.GFile is deprecated. Please use tf.io.gfile.GFile instead.

System check identified no issues (0 silenced).
November 27, 2022 - 18:51:28
Django version 3.2.16, using settings 'musk.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

### **Accessing GUI:**

The program can be accessed by users using an HTML5 browser. The Django server runs on TCP port 8000.

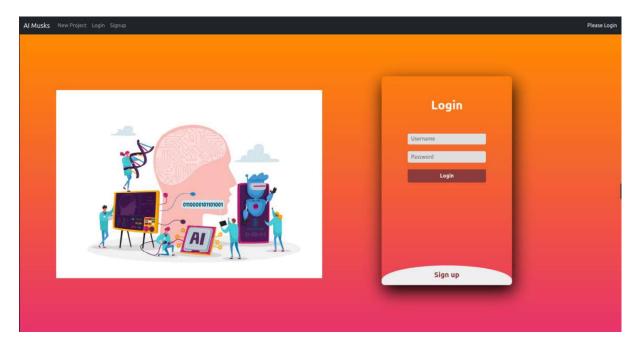


### Login:

Users can log in if they are previously registered.

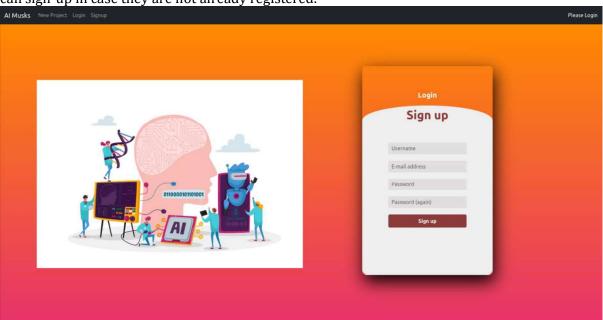


Once the user clicks on the login button, the user will be presented with Login.



### Sign-Up:

Users can sign-up in case they are not already registered.



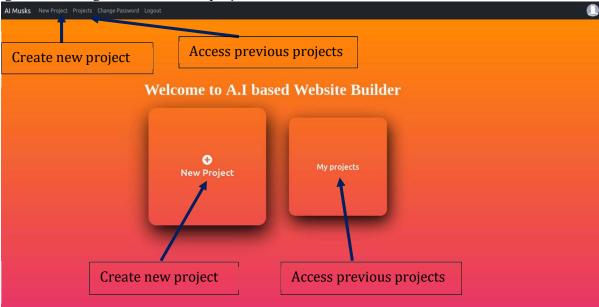
### **User Profile Customization:**

Once logged in, the users can change their info and profile pictures from their profile page  $\frac{1}{2}$ 



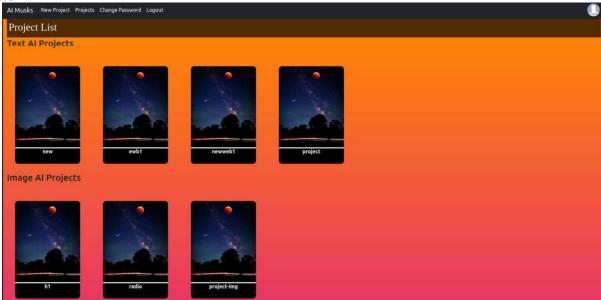
### **User Home Page:**

Post login, users can go to create a new project from the links shown below



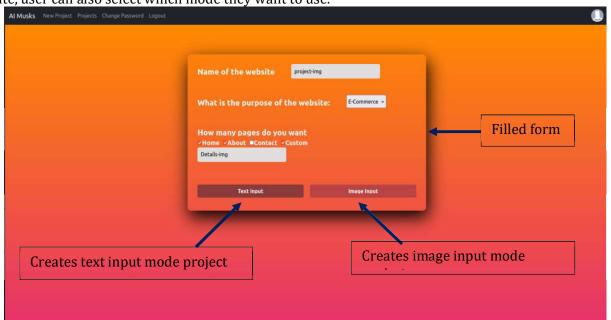
### **My Projects:**

The "My Projects" page takes the users to the projects page, where they're shown their previously created projects



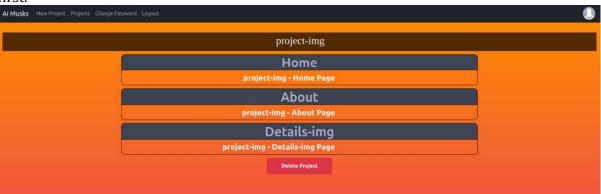
### **Creating New Project:**

The "New Projects" page takes them to the purpose page, where they give general information about their website, user can also select which mode they want to use.



### **Image Input Mode:**

Users can use image input mode to upload hand-drawn images and generate HTML code. Once the image input mode is selected, the pages the user chose to make are listed, where they can then choose which to make first.



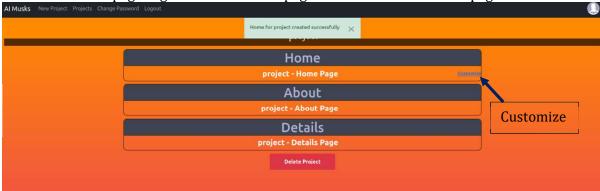
User can select specific page and proceed to upload hand drawn image.



They can then select the image they want to upload, which will be processed by the ML

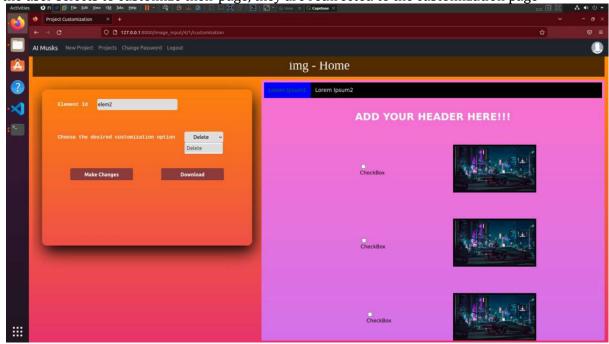


Once they choose to create the page, they are redirected back to the list of their project pages, where they can then either select a new page to generate additional pages or customize the HTML page which is made already.



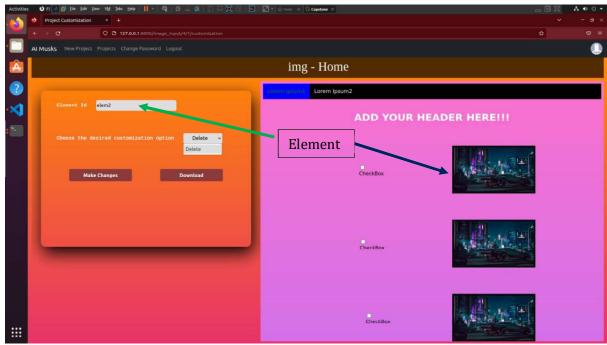
### **Page Customization - Image Input Mode:**

Once the user selects to customize their page, they are redirected to the customization page



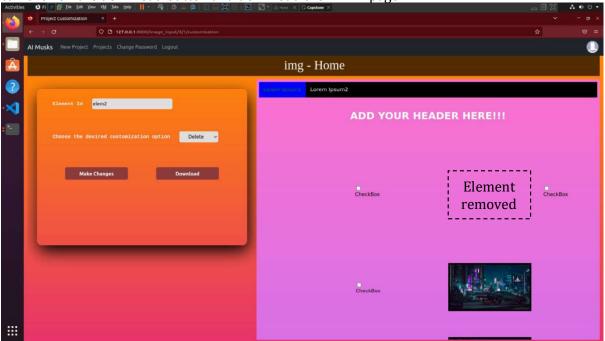
### **Page Customization – Element Editing:**

Users can select the elements in real-time and make the changes.



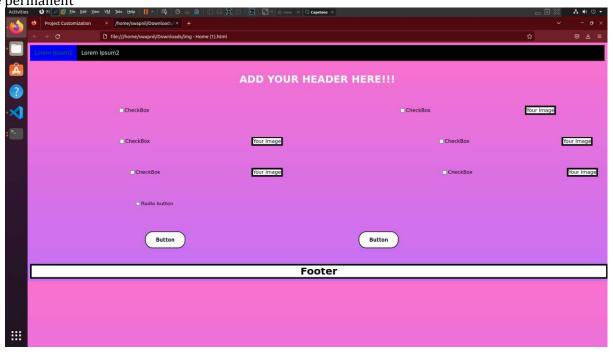
## Page Customization – Page Download:

Users can click on the download button and download the HTML page.



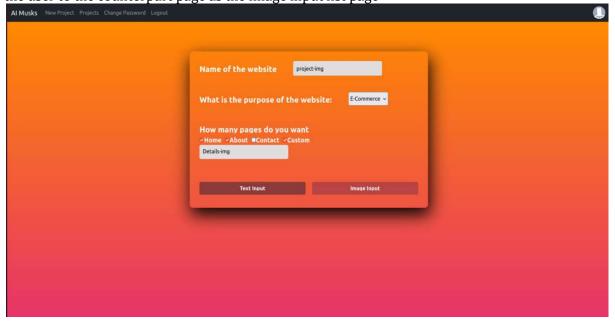
### **Page Customization – Post Download:**

After they download their page, the default images will not show, but the alternate text will display, letting the users know that the image elements are still present on the page. The changes made during customization are made permanent

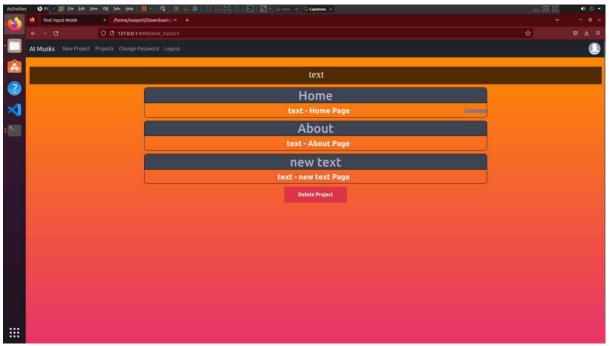


### **Text Input Mode:**

Alternative to Image Input mode, the user can select text Input mode Once an image input project is made, it takes the user to the counterpart page as the image input list page

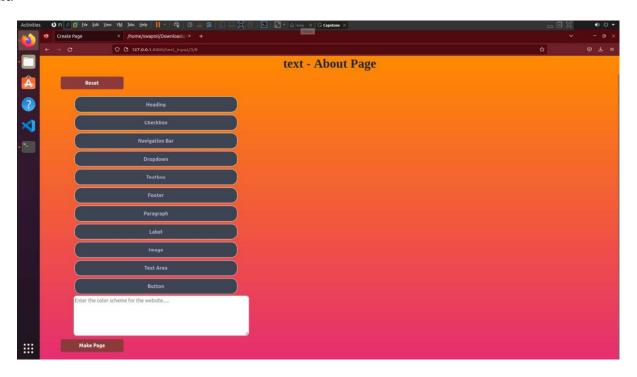


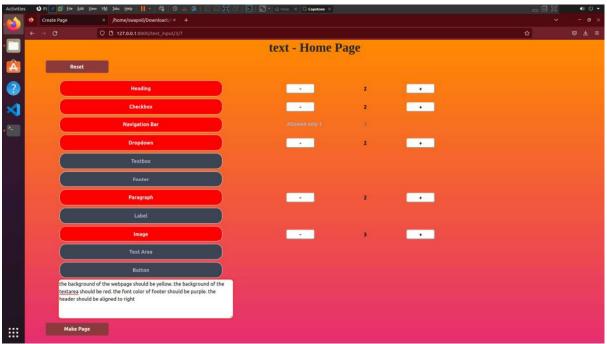
Similar to the image input mode flow of events, the user can select the page they want to create first



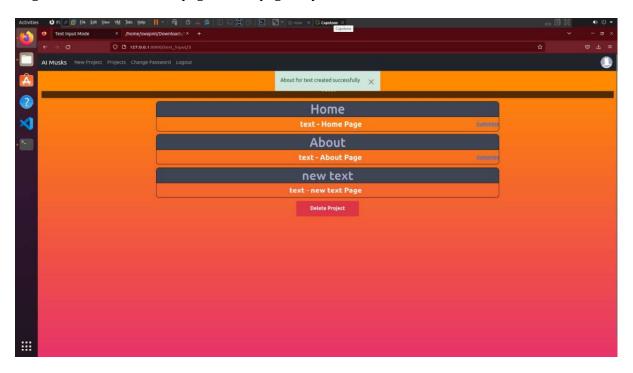
### **Text Input Mode – Element Customization:**

The user can then select the elements they want for their page, and choose the number of each element they want.



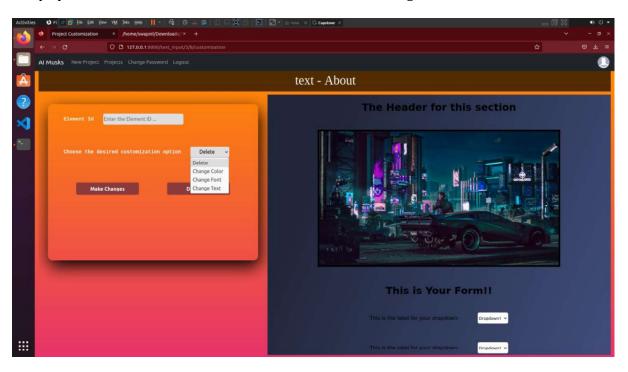


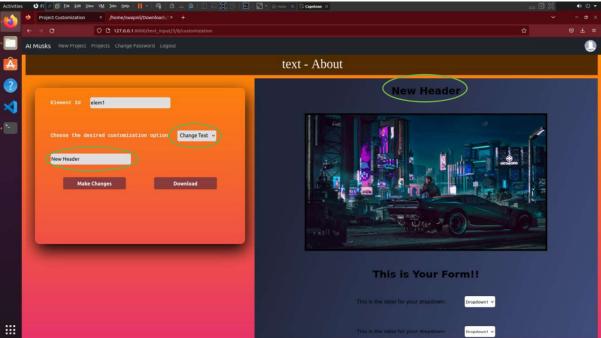
Similar to the image input mode, the user is redirected to the page list page for the project. Here they can select to go to the customization page for the page they made, or create another one



## **Text Input Mode – Page Customization:**

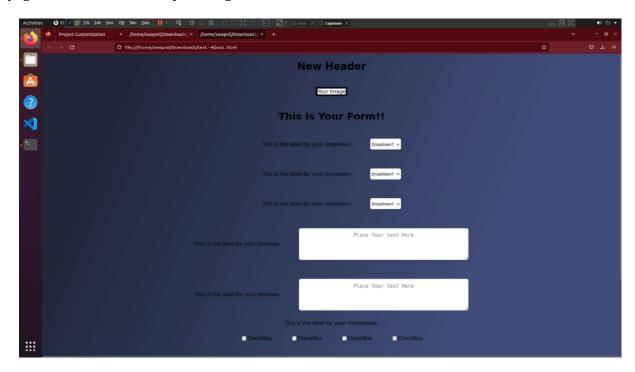
Once on the customization page, the process is consistent with the image customization page, where the page is displayed and elements can be clicked to be selected and changed





### **Text Input Mode – Page Download:**

The page can be downloaded by clicking the download button.



## **Meetings Report:**

The meetings the group conducted throughout the whole capstone 2 project are listed below, with their times. This toggl report only includes the group meetings that took place during the sprints. For an in-depth look at the individual progress of the group members, refer to the final individual reports.

Toggl report starts from next page