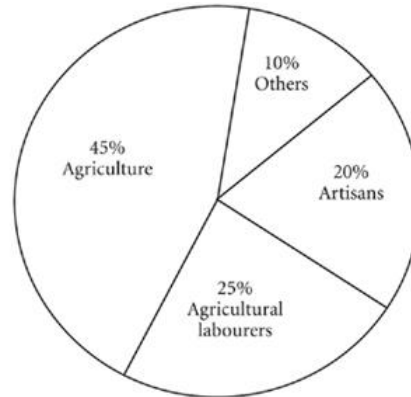A mini-project presentation on
SOCIAL MEDIA WEBSITE FOR ARTISANS
(Batch ID: A1)

Thadisetty Ashwath (2451-18-733-010)
Akula Rithika (2451-18-733-025)
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Abstract

➢ Artisans are the backbone of the non-farm rural economy.
➢ Number of Indian artisans has been rapidly decreasing.
➢ Re-investment in artisans to safeguard history, culture, and an essential income resource is required.

Labourers' sectors in India

2

Problem Statement

Artisans of the nation have inadequate and limited resources. Issues like restricted market space, lower bids, and lack of means to expand their business reach across physical borders are the principal causes for artisans quitting their skill. *"India's handicrafts exports nosedive 40%; artisans turn daily wagers to make ends meet."* quoted a stades article dated October 26, 2020.

This decline calls for a medium that can connect the general public to the workers, can be easily used, and is platform-independent. Create a social platform for artisans where they can share their art and can connect to the general public through it.
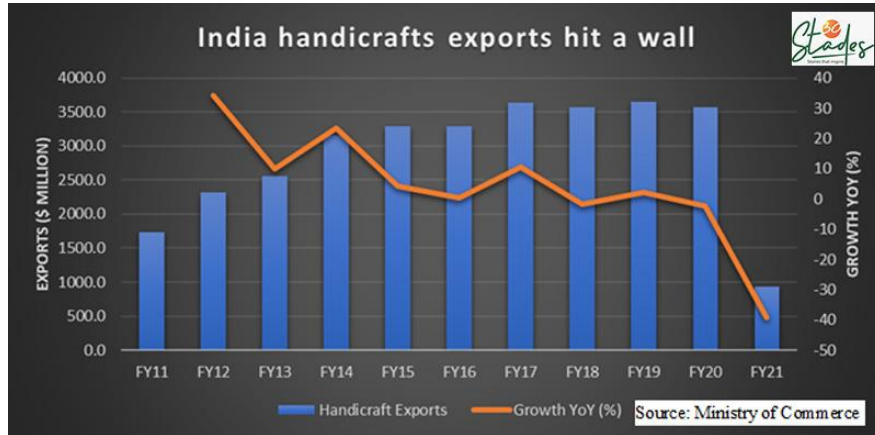
ENTERPRISE

COVID-19: India's handicrafts exports nosedive 40%; artisans turn daily wagers to make ends meet

POSTED ON OCTOBER 26, 2020 BY RASHMI PRATAP

Problem Statement

Picked from SIH 2020 Problem Statements

	PROBLEM STATEMENT DETAILS
Description	A social platform for artisans whereby they can share their profile and skill set and can connect the
Organization	Ministry of Tribal Affairs
Category	Software
Domain Bucket	Software - Web App development
Youtube Link	
Dataset Link	NA

Proposed Solution

➢ **CollabArt**: A platform-independent social media website free and open to all.

➢ Acts as a marketplace for the artisan's products.

COLLABART
Create | Share | Support

Introduction to CollabArt

TARGET AUDIENCE

Artisans with inadequate or limited resources

OPEN CONTENT

Acts as a marketplace for the work of artists

BUY OR DONATE

Anybody interested in buying or donating to an artist can submit a request

DJANGO

Built using Django framework

Objectives

Free and open to use for all

Allow interested users to register for free

Provide basic social-media features to registered users.

Provide an interface for general users to buy from or donate to interested artists or artworks.

Scale the website to operate on a large number of users.
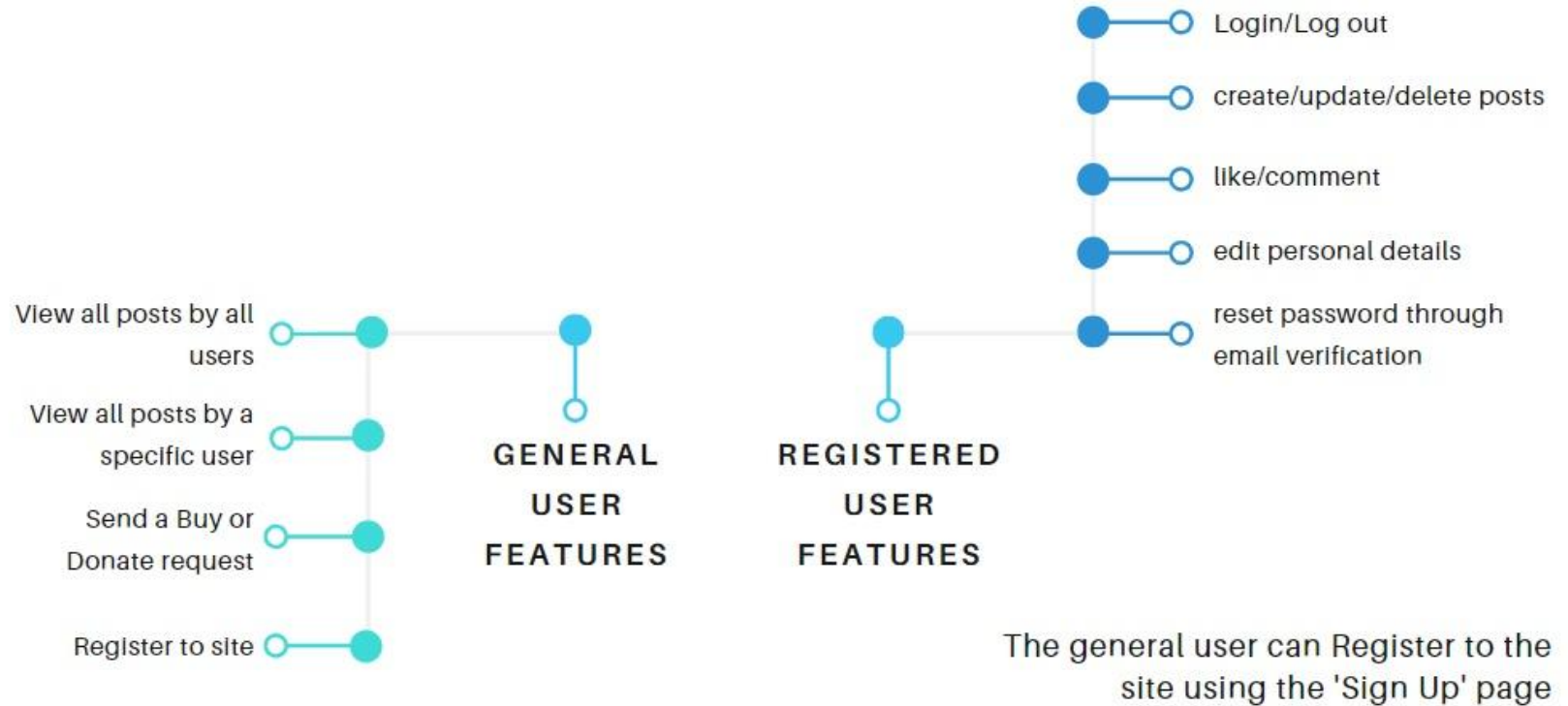
Promote and Support local artwork

Scope

The website will be used as a social media platform for artisans to post their product's images and make them visible to people around the world through the Internet.
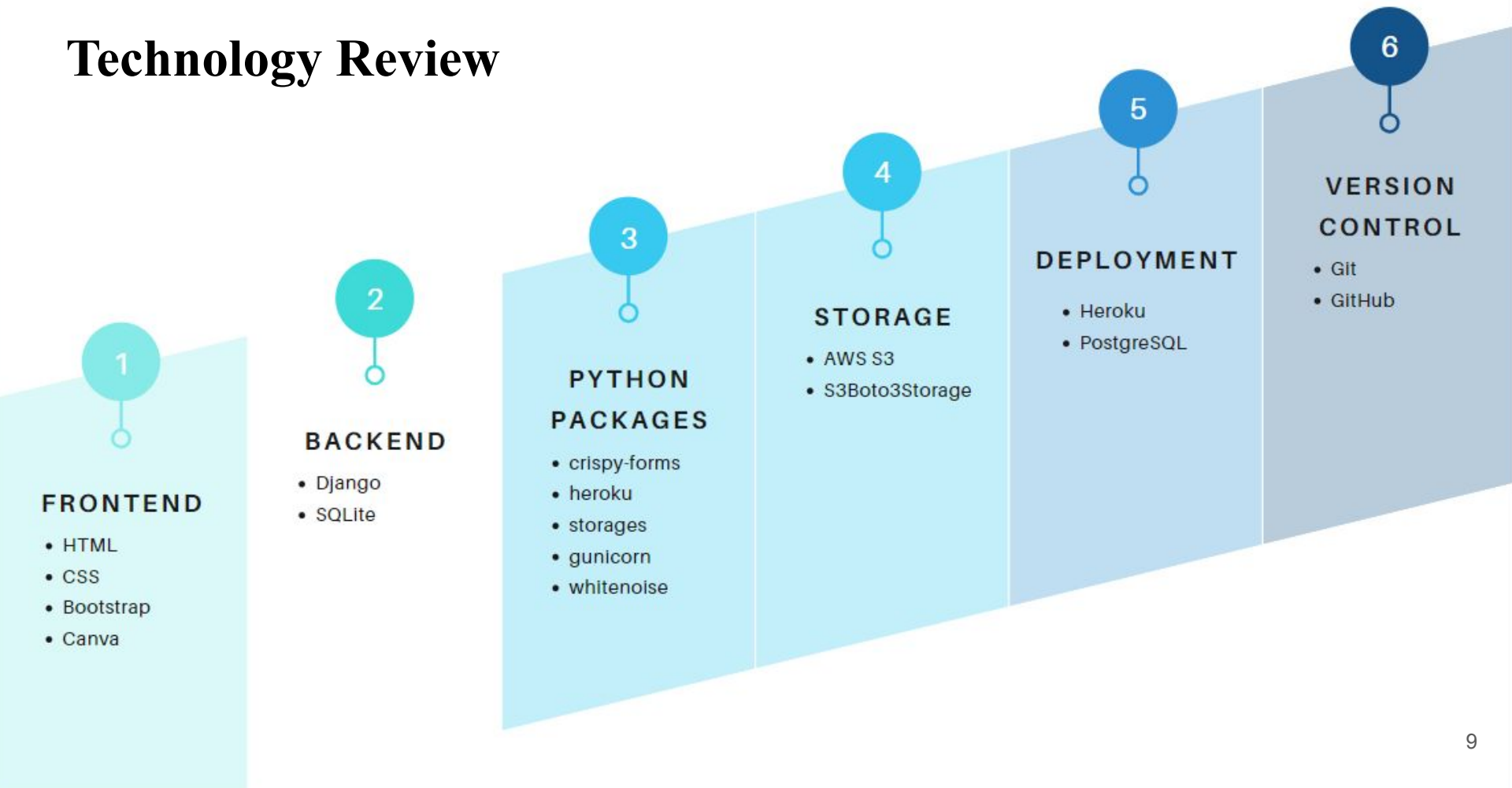The website intends to produce the following deliverables:

➢ A platform-independent website available at the URL -
https://collabartsite.herokuapp.com

➢ Website should have the following features

Features

View all posts by all users

View all posts by a specific user

Send a Buy or Donate request

Register to site

GENERAL USER FEATURES

REGISTERED USER FEATURES

Login/Log out

create/update/delete posts

like/comment

edit personal details

reset password through email verification

The general user can Register to the site using the 'Sign Up' page

Technology Review

1

FRONTEND

- HTML
- CSS
- Bootstrap
- Canva

2

BACKEND

- Django
- SQLite

3

PYTHON PACKAGES

- crispy-forms
- heroku
- storages
- gunicorn
- whitenoise

4

STORAGE

- AWS S3
- S3Boto3Storage

5

DEPLOYMENT

- Heroku
- PostgreSQL

6

VERSION CONTROL

- Git
- GitHub

9

System Requirements

FOR DEVELOPMENT

- Python, pip
- Django-3.1.7
- Git
- Heroku
- Python packages
- Code Editor
- 8 GB RAM
- Internet connection
- Web browser
- Min. 10 GB free memory space

FOR DEPLOYMENT

- Device: PC, laptop or Smartphone
- Web browser
- Internet connection
- OS:
  - Windows 8 or later
  - macOS Sierra 10.12 or later
  - 64-bit Ubuntu 14.04+, Debian 8+
- Processor: Intel Pentium 4 or later

System Design
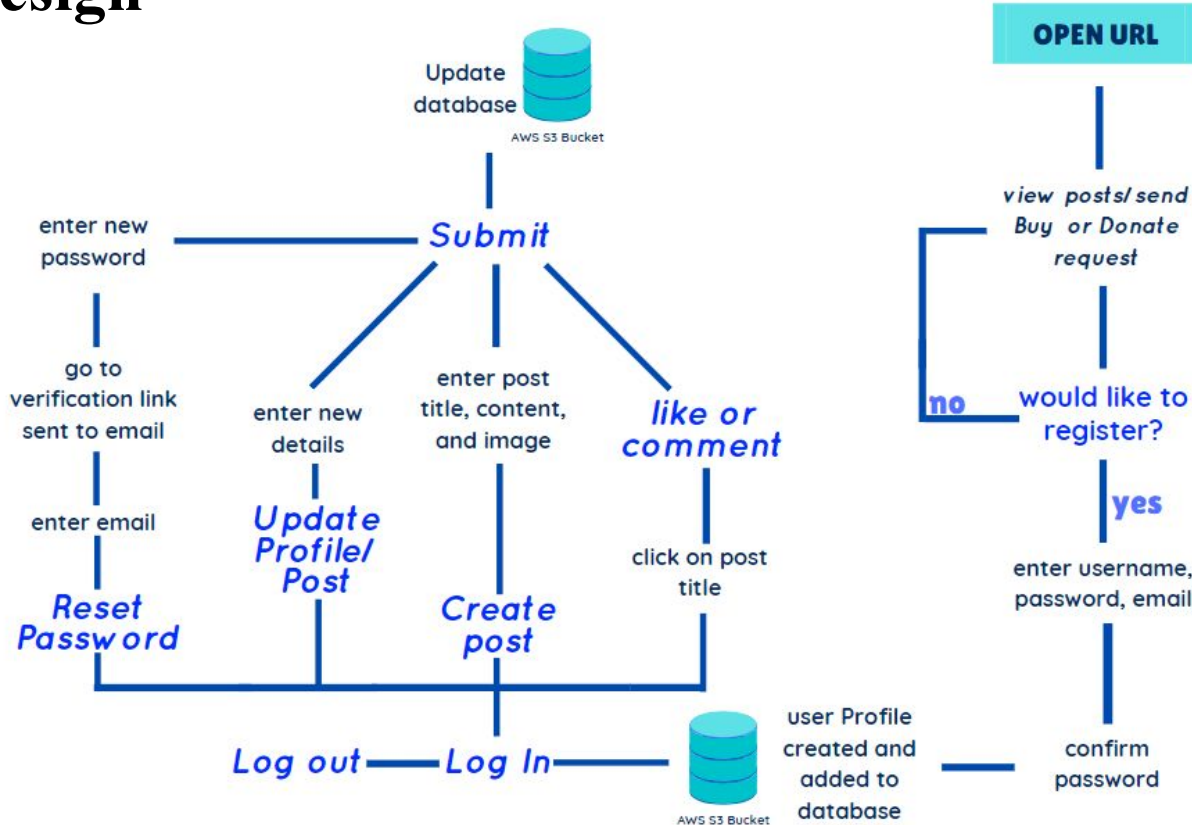
Implementation - Technologies

➢ Django framework - 3.1.7
➢ AWS S3 for storage
➢ Deployment using Heroku
➢ Git for version control
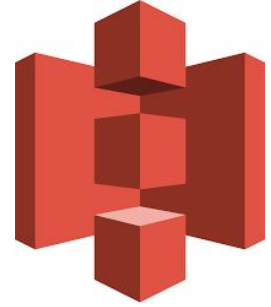
Implementation – Git for Version Control
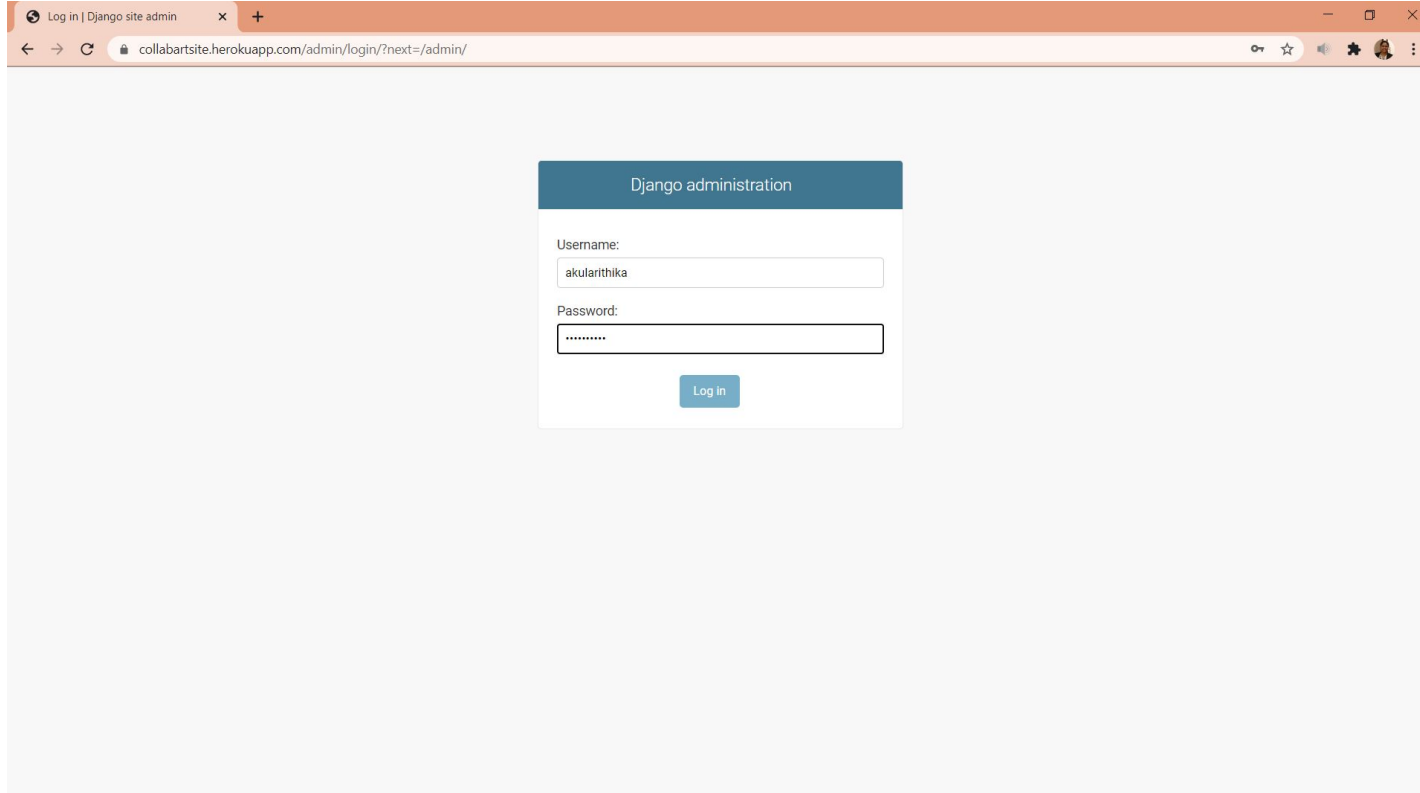
Implementation - Database

➢ Database and Python packages connectivity graph
➢ Plotted using graphviz software

Database - The Django admin Interface

Database - The Django admin Interface

Cloud Storage - AWS S3 Bucket

Deployment – Heroku

Data

```
collabartsite::DATABASE=> # \dt
                    List of relations
 Schema |            Name             | Type  |     Owner
--------+----------------------------+-------+----------------
 public | auth_group                 | table | kmqocijhhgsoyk
 public | auth_group_permissions     | table | kmqocijhhgsoyk
 public | auth_permission            | table | kmqocijhhgsoyk
 public | auth_user                  | table | kmqocijhhgsoyk
 public | auth_user_groups           | table | kmqocijhhgsoyk
 public | auth_user_user_permissions | table | kmqocijhhgsoyk
 public | blog_blogcomment           | table | kmqocijhhgsoyk
 public | blog_post                  | table | kmqocijhhgsoyk
 public | blog_post_likes            | table | kmqocijhhgsoyk
 public | django_admin_log           | table | kmqocijhhgsoyk
 public | django_content_type        | table | kmqocijhhgsoyk
 public | django_migrations          | table | kmqocijhhgsoyk
 public | django_session             | table | kmqocijhhgsoyk
 public | users_profile              | table | kmqocijhhgsoyk
(14 rows)
```

Data

```
collabartsite::DATABASE=> select * from blog_post;
 id |       title       |                                                         content                                                          |          date_posted          | author_id |
                image
----+-------------------+--------------------------------------------------------------------------------------------------------------------------+-------------------------------+-----------+
----------------------------------
  1 | Handloom          | Handloom Cloth making\r                                                                                                  +| 2021-03-08 02:27:33.951959+00 |         2 |
post_images/threads_Br4n6Gq.jpg
    |                   | Made using traditional techniques and hand-dyed thread                                                                   |                               |           |
  2 | Tribal Jewelry    | traditional tribal jewelry made with locally-sourced beads, stones, and crystals                                         | 2021-03-08 02:29:44.73576+00  |         2 |
post_images/jewellery_UCoFb2S.jpg
  3 | Pot Painting      | Pots sculpted and painted using organic colors.\r                                                                       +| 2021-03-08 02:57:20.547242+00 |         1 |
post_images/pot_UBl0aTO.jpg
    |                   | Ready for sale.\r                                                                                                       +|                               |           |
    |                   | 50 Rs./piece\r                                                                                                          +|                               |           |
    |                   | Submit a Buy or Donate request and put post_title in the message to buy this product                                     |                               |           |
  5 | Tribal Art Warli  | The themes choosen are from the nature.Harvesting is one of the major theme.Paintings are mainly created on mud walls of tribal houses. | 2021-03-08 03:49:29.252477+00 |         3 |
post_images/Tribal-Folk-Art-Warli.jpg
  4 | Newly made dolls  | traditional dolls made of wood                                                                                           | 2021-03-08 03:43:59+00        |         4 |
post_images/doll_PelkuC8.jpg
  7 | dolls             | for sale                                                                                                                 | 2021-03-08 15:25:32.801914+00 |         1 |
post_images/dolls.jpg
  6 | COLOURFUL         | Traditional painting done by using organic paints on canvas \r                                                          +| 2021-03-08 15:00:13.687868+00 |         5 |
post_images/painting2.jpg
    |                   | Enjoyed a lot \r                                                                                                        +|                               |           |
    |                   | Rs. 150                                                                                                                  |                               |           |
 10 | Traditional Handloom | Blue fabric hand-loomed for use in bedsheets, cushion covers, etc.\r                                                  +| 2021-03-10 04:34:25.979535+00 |         9 |
post_images/handloom.jpg
    |                   | Submit a request to the right to customize your order.                                                                   |                               |           |
 11 | Cloth painting    | the cloth is hand-painted                                                                                                | 2021-03-12 18:56:47.208871+00 |        14 |
post_images/images.jpg
 12 | Jewelry           | Necklace up for sale!\r                                                                                                 +| 2021-03-12 19:41:44.080542+00 |        12 |
post_images/jewelry.jpg
    |                   | Send a Buy or Donate request from the link on the right to personalize and buy it.                                       |                               |           |
 13 | New painting!     | Made on hand-made paper\r                                                                                               +| 2021-03-12 19:44:53.509763+00 |         5 |
post_images/paint.jpg
    |                   | Depicts a tribal scene                                                                                                   |                               |           |
(11 rows)
```

Implementation

About

Artisans are the backbone of India's non-farm rural economy, engaged in craft production to earn a livelihood. However, propelled by loss of markets, declining skills and difficulty catering to new markets, the number of Indian artisans has been rapidly decreasing. Crafting a Livelihood calls for re-investment in India's artisans to safeguard history, culture and an important source of livelihood.

With big international platforms like Amazon and Facebook looking to invest in small businesses and support local artisans, a social website to share and support them is the need of the hour. Artisans can register to the site, create a user profile, post their artwork and other users can Like and Comment on posts by clicking on the post title and entering the post details page. Supporting these artisans has been made easier through the website with the Buy or Donate option.

Support

Small businesses require your support in the form of sales and donations.

Buy or Donate

22

Home About

Sign Up

Username*

laxminarasimharepala

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email*

repalasanthoshkumar@gmail.com

Password*

••••••••••••••

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation*

••••••••••••••

Enter the same password as before, for verification.

Sign Up

Already have an account? Login

Support

Small businesses require your support in the form of sales and donations.

Buy or Donate

23

CollabArt   Home   About   Login   Register

Log In

Username*

Santhosh

Password*

••••••••••••

Login   Forgot Password?

Need an account?   Sign Up now

Support

Small businesses require your support in
the form of sales and donations.

Buy or Donate

Testing - Selenium

Testing - Selenium

Conclusion

We hope that our website aids in growth of the country's artisans and promotes this major and diverse sector's work across the limitations of physical borders through the Internet.

Scope of improvement:

➢ Send/Accept/Decline friend requests
➢ Chat interface
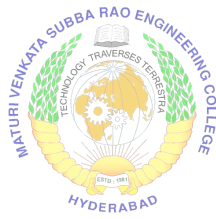➢ Payment gateway for sales or donations

References(Major)

1. https://docs.djangoproject.com/en/3.1/
2. https://www.youtube.com/watch?v=UmljXZIypDc&list=PL-osiE80TeTtoQCKZ03T
   U5fNfx2UY6U4p
3. https://30stades.com/2020/10/26/covid-19-indias-handicrafts-exports-nosedive-40-per
   cent-artisans-turn-daily-wagers-to-make-ends-meet/
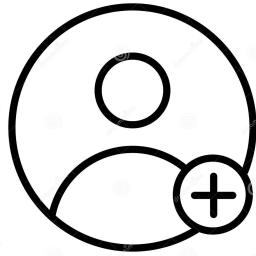
Complete code available at:

https://github.com/RithikaAkula/collabart

MATURI VENKATA SUBBA RAO (MVSR) ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(Sponsored by Matrusri Education Society, Estd. 1980)
Affiliated to Osmania University & Recognized by AICTE
Nadergul(V), Balapur(M), Ranga Reddy(D), Hyderabad – 501 510, Telangana, INDIA

(Academic Year: 2020 - 2021)

A mini-project presentation on
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Thank You

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