



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



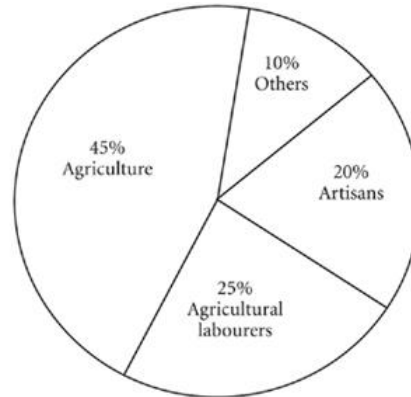
(Academic Year: 2020 - 2021)

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

Thadisetty Ashwath (2451-18-733-010)
Akula Rithika (2451-18-733-025)
Repala Santhosh Kumar (2451-18-733-039)

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.



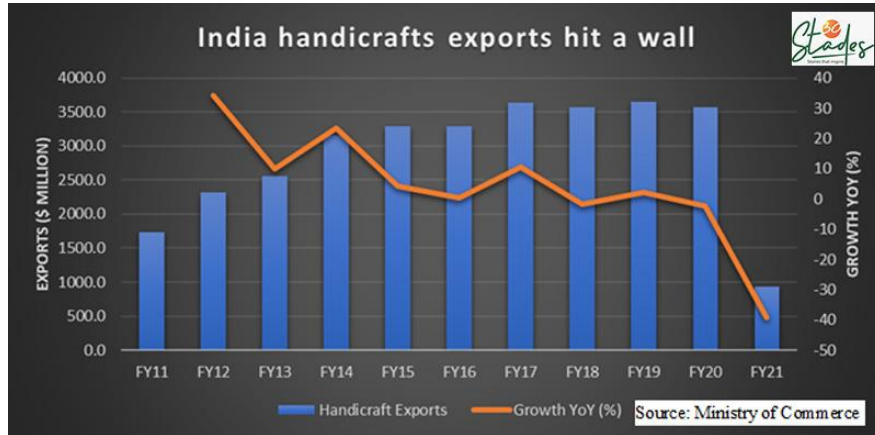
Labourers' sectors in India



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

 SMART INDIA HACKATHON 2020	PROBLEM STATEMENT DETAILS	
Description	A social platform for artisans whereby they can share their profile and skill set and can connect etc.	
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.



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

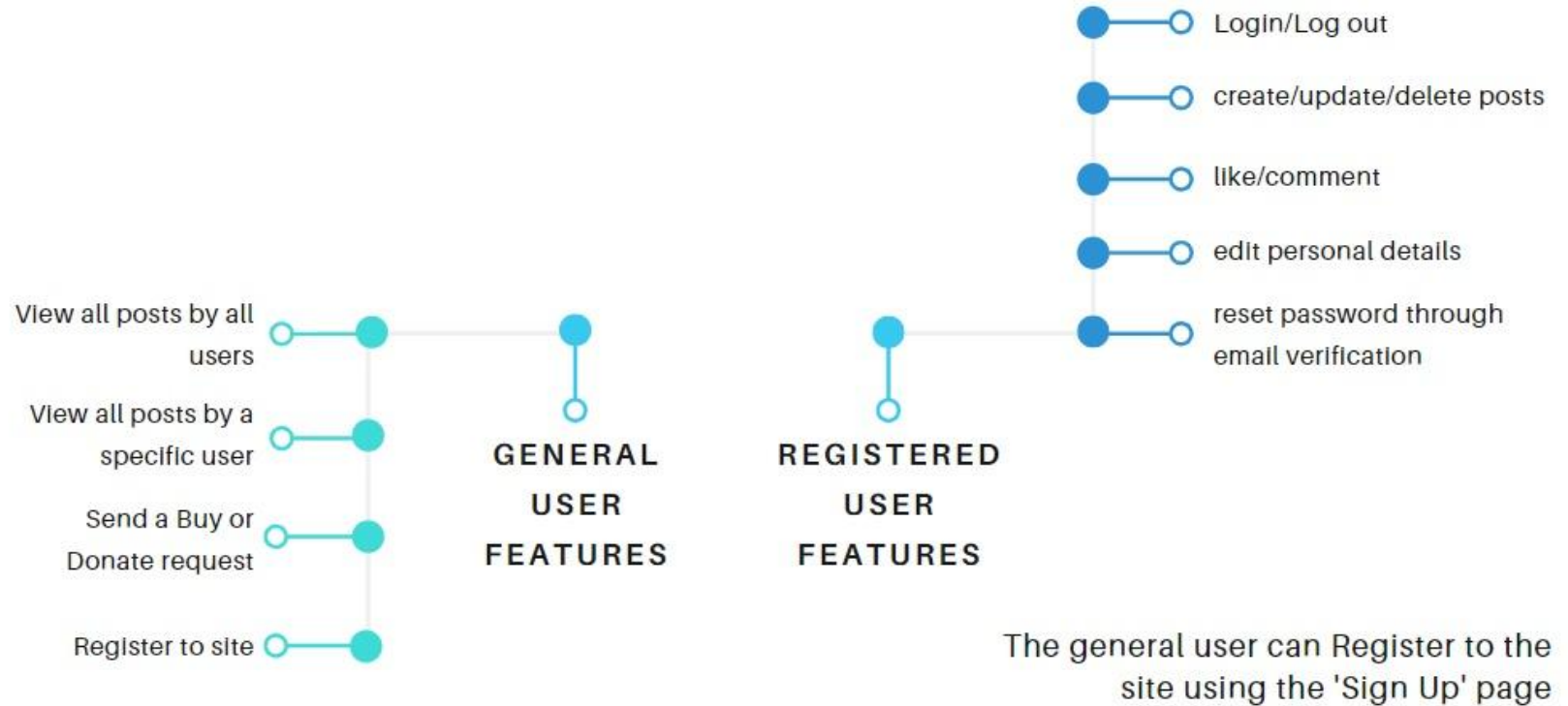
Scope

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.

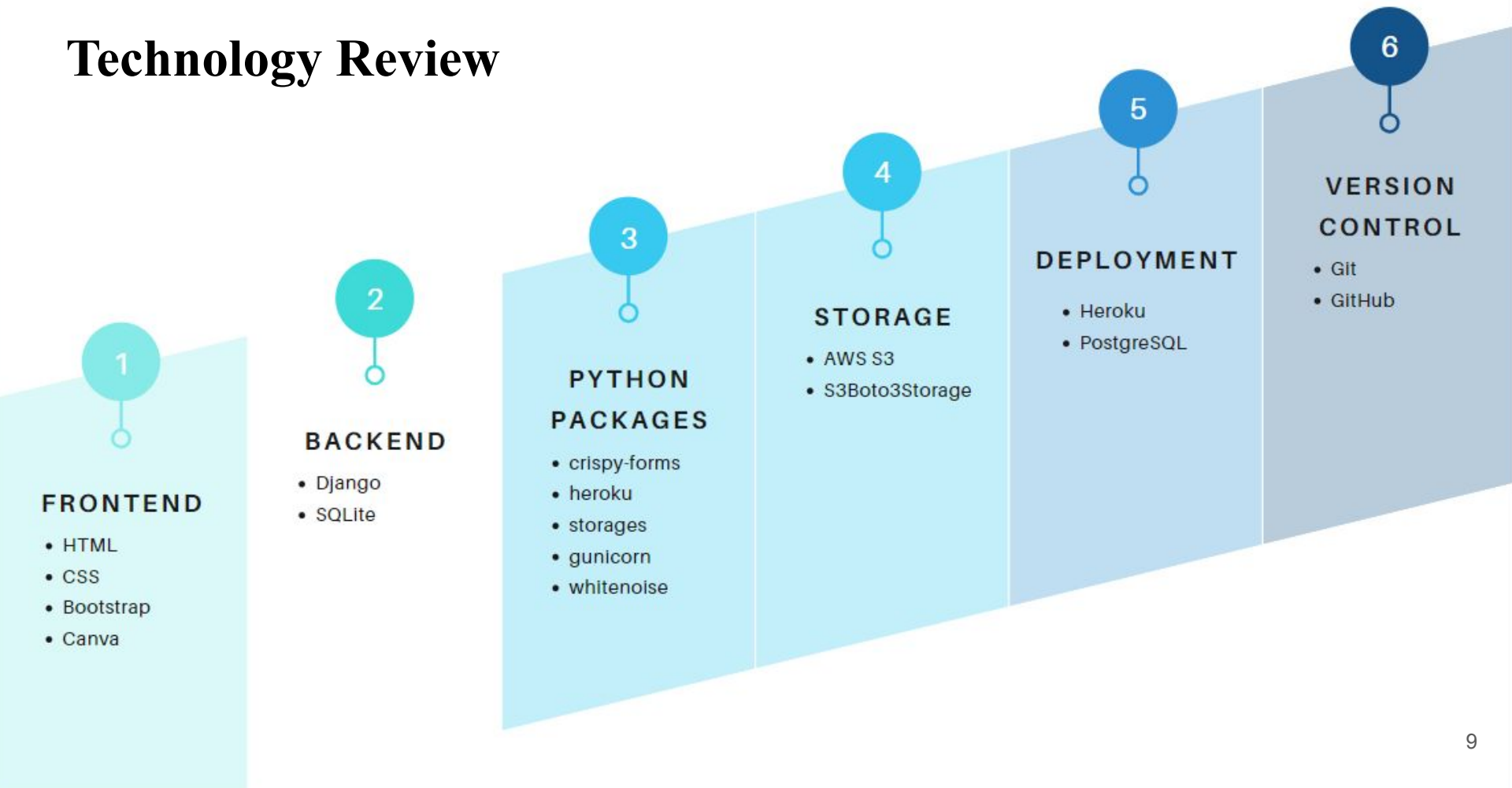
The website intends to produce the following deliverables:

- A platform-independent website available at the URL - <https://collabartsite.herokuapp.com>
- Website should have the following features

Features



Technology Review



System Requirements

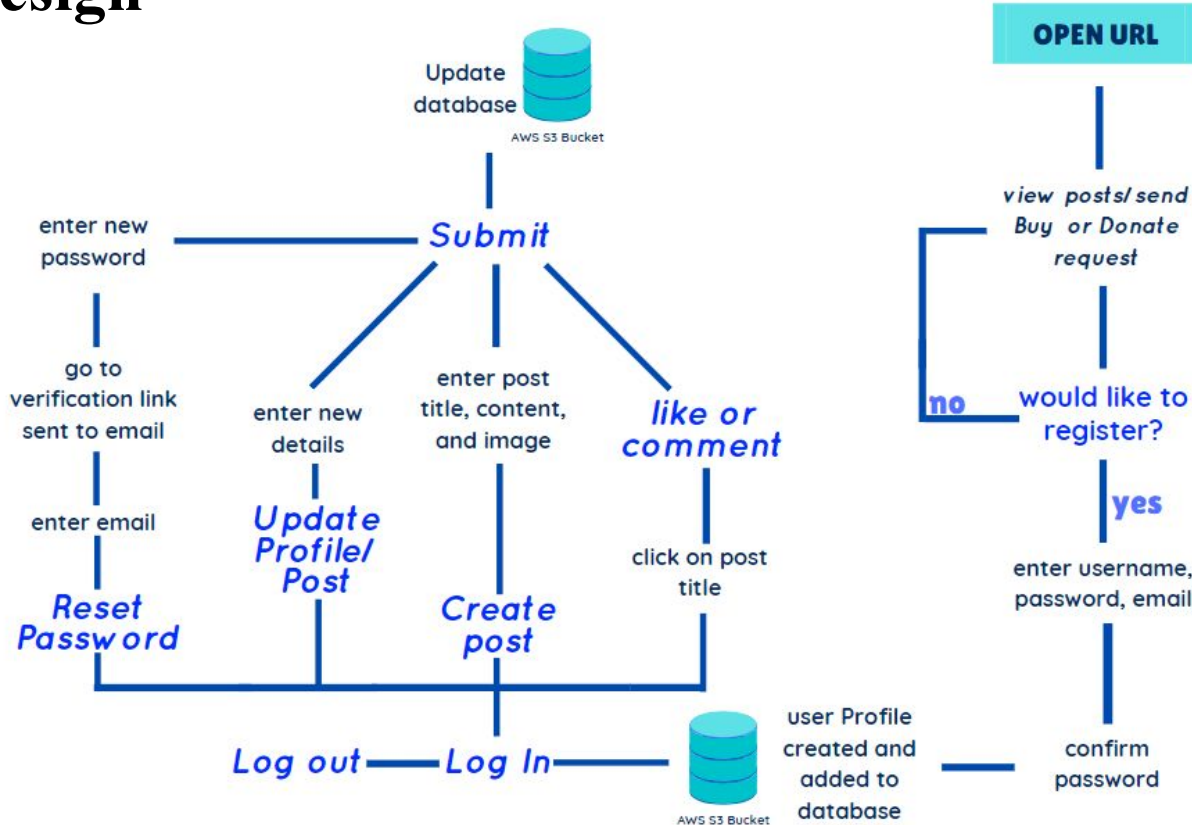
FOR DEVELOPMENT

- 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

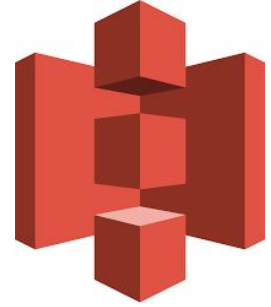
- Device: PC, laptop or Smartphone
- Web browser
- Internet connection
- OS:
 - Windows 8 or later
 - macOS Sierra 10.12 or later
 - 64-bit Ubuntu 14.04+, Debian 8+
- Processor: Intel Pentium 4 or later

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

The screenshot shows the GitHub interface for the repository 'RithikaAkula/collabart'. The repository is in the 'main' branch and has 1 commit. The file list includes .vscode, blog, collabart, users, .gitignore, Profile, README.md, manage.py, and requirements.txt, all from the initial commit 9 days ago. The README.md content is 'CollabArt'. The right sidebar shows repository statistics: 1 Unwatch, 1 Unstar, and 0 Forks. The 'About' section describes it as a social media website for Artisans. The 'Releases' and 'Packages' sections show no published items. The 'Languages' section shows a bar chart with Python (55.3%), HTML (42.2%), and CSS (2.5%).

RithikaAkula/collabart

Search or jump to... Pull requests Issues Marketplace Explore

RithikaAkula / collabart

Unwatch 1 Unstar 1 Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

RithikaAkula Initial commit		03325b1 9 days ago 1 commit
folder	.vscode	Initial commit 9 days ago
folder	blog	Initial commit 9 days ago
folder	collabart	Initial commit 9 days ago
folder	users	Initial commit 9 days ago
file	.gitignore	Initial commit 9 days ago
file	Profile	Initial commit 9 days ago
file	README.md	Initial commit 9 days ago
file	manage.py	Initial commit 9 days ago
file	requirements.txt	Initial commit 9 days ago

README.md

CollabArt

About

A social media website for Artisans to promote their work and support them.

Readme

Releases

No releases published
[Create a new release](#)

Packages

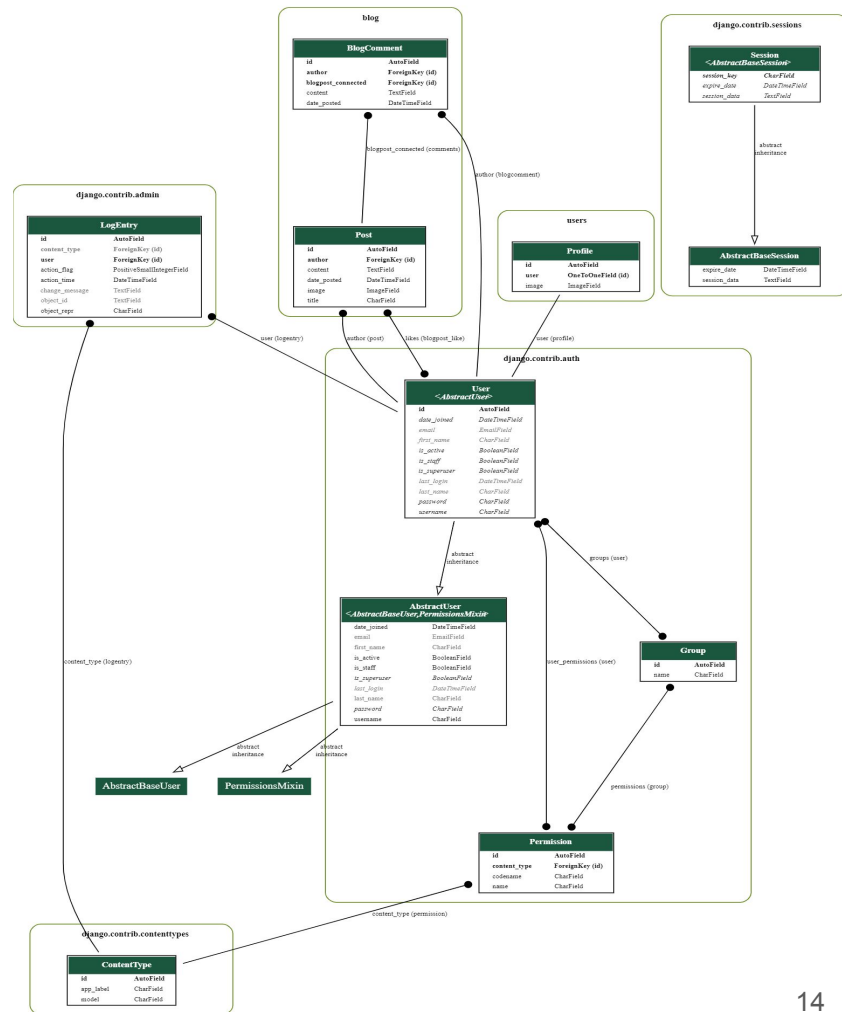
No packages published
[Publish your first package](#)

Languages

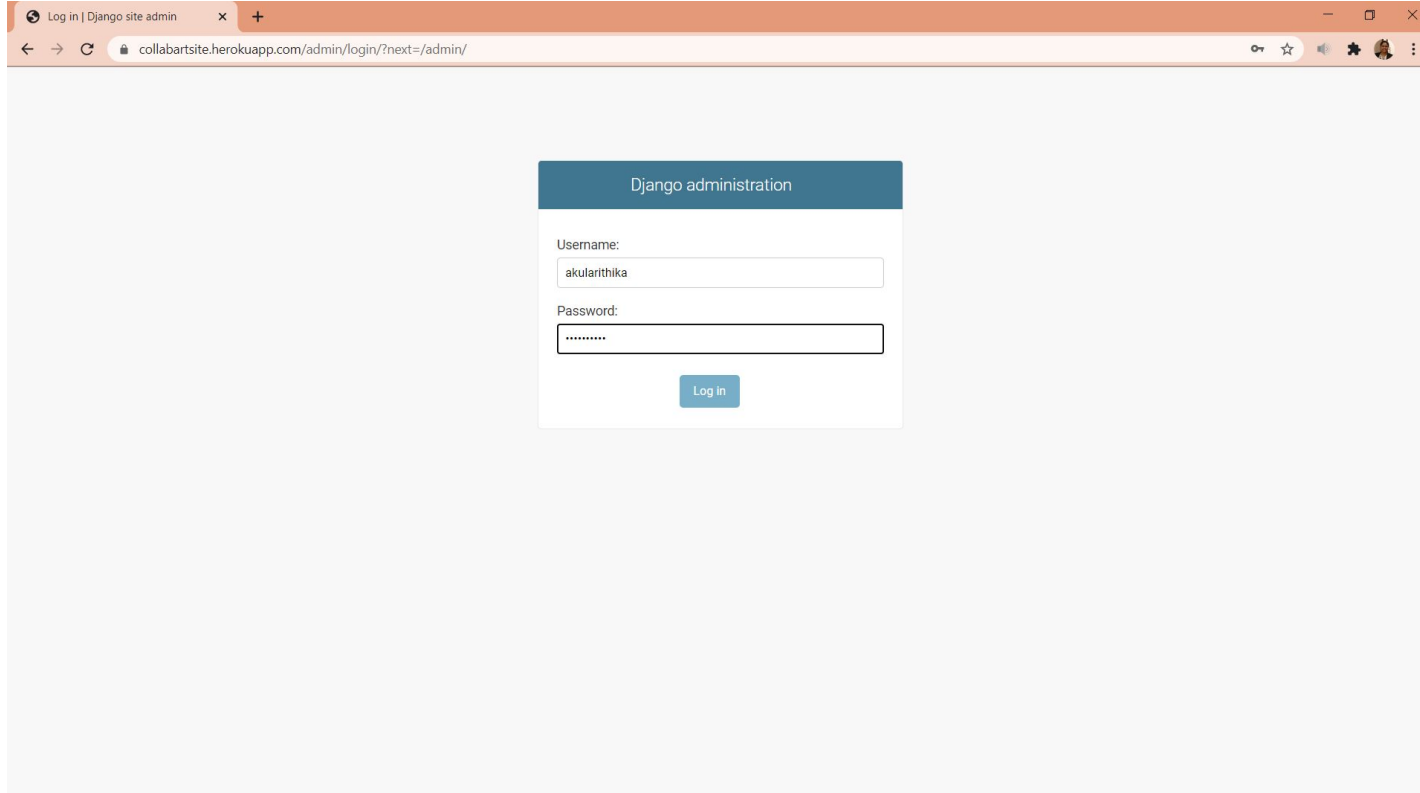
Python 55.3% HTML 42.2% CSS 2.5%

Implementation - Database

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



Database - The Django admin Interface



The image shows a web browser window with a single tab titled "Log in | Django site admin". The address bar displays the URL "collabartsite.herokuapp.com/admin/login/?next=/admin/". The main content area features a login form titled "Django administration". The form includes a "Username:" label, a text input field containing "akularithika", a "Password:" label, a password input field with masked characters "*****", and a blue "Log in" button.

Log in | Django site admin

collabartsite.herokuapp.com/admin/login/?next=/admin/

Django administration

Username:

akularithika

Password:

Log in

Database - The Django admin Interface

The screenshot displays the Django admin interface in a web browser. The browser's address bar shows the URL `collabartsite.herokuapp.com/admin/`. The page has a dark blue header with the text "Django administration" on the left and a welcome message "WELCOME, AKULARITHIKA. VIEW SITE / CHANGE PASSWORD / LOG OUT" on the right. Below the header, the main content area is titled "Site administration". It features three main sections: "AUTHENTICATION AND AUTHORIZATION", "BLOG", and "USERS". Each section contains a table with "Add" and "Change" links. The "Recent actions" sidebar on the right lists "My actions" for the current user, showing a successful action for "Rithika" and a failed action for "test2".

Site administration | Django site

collabartsite.herokuapp.com/admin/

Django administration

WELCOME, AKULARITHIKA. VIEW SITE / CHANGE PASSWORD / LOG OUT

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	+ Add	Change
Users	+ Add	Change

BLOG

Blog comments	+ Add	Change
Posts	+ Add	Change

USERS

Profiles	+ Add	Change
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Recent actions

My actions

- [Rithika](#)
User
- [test2](#)
User

Cloud Storage - AWS S3 Bucket

The screenshot displays the AWS S3 Management Console interface. The left sidebar shows the navigation menu with 'Amazon S3' selected. The main content area shows the 'collabart-files' bucket with the 'Objects' tab active. Below the tab, there are buttons for 'Refresh', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar is present with the text 'Find objects by prefix'. Below the search bar is a table listing the objects in the bucket.

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	default.jpg	jpg	March 8, 2021, 00:00:09 (UTC+05:30)	4.2 KB	Standard
<input type="checkbox"/>	post_images/	Folder	-	-	-
<input type="checkbox"/>	profile_pics/	Folder	-	-	-

Deployment - Heroku

The screenshot shows the Heroku Datastores management interface in a web browser. The browser's address bar displays the URL `data.heroku.com/datastores/8f22e41c-6e47-428e-a80a-3c69cf801a69#`. The page header includes the Salesforce Platform logo and a 'DATA' section header. The main content area is titled 'Datastores > postgresql-rugged-88367'. Below this, there is a breadcrumb trail: 'SERVICE heroku-postgresql > PLAN hobby-dev > BILLING APP collabartsite'. A navigation bar contains links for 'Overview', 'Durability', 'Settings', and 'Dataclips'. The 'HEALTH' section shows a green checkmark and the status 'Available'. Below this, a row of metadata includes 'PRIMARY Yes', 'VERSION 13.2', 'CREATED 11 days ago', 'MAINTENANCE Unsupported ⓘ', and 'ROLLBACK Unsupported ⓘ'. The 'UTILIZATION' section is divided into four columns: 'CONNECTIONS' (0 of 20), 'ROWS' (29 of 10,000, with a green checkmark and 'IN COMPLIANCE'), 'DATA SIZE' (9.2 MB), and 'TABLES' (14). The footer contains links for 'heroku.com', 'Blogs', 'Careers', 'Documentation', and a 'Support' button, followed by 'Terms of Service', 'Privacy', 'Cookies', and '© 2021 Salesforce.com'.

postgresql-rugged-88367 | Heroku x +

data.heroku.com/datastores/8f22e41c-6e47-428e-a80a-3c69cf801a69#

Salesforce Platform

DATA

Datastores > postgresql-rugged-88367

SERVICE heroku-postgresql PLAN hobby-dev BILLING APP collabartsite

Overview Durability Settings Dataclips

HEALTH

Available

PRIMARY Yes VERSION 13.2 CREATED 11 days ago MAINTENANCE Unsupported ⓘ ROLLBACK Unsupported ⓘ

UTILIZATION

0 of 20	29 of 10,000	9.2 MB	14
CONNECTIONS	ROWS IN COMPLIANCE	DATA SIZE	TABLES

heroku.com Blogs Careers Documentation Support

Terms of Service Privacy Cookies © 2021 Salesforce.com

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				
2	Tribal Jewelry	Made using traditional techniques and hand-dyed thread\r	2021-03-08 02:29:44.73576+00	2
post_images/jewellery_UCoFb2S.jpg		traditional tribal jewelry made with locally-sourced beads, stones, and crystals		
3	Pot Painting	Pots sculpted and painted using organic colors.\r	2021-03-08 02:57:20.547242+00	1
post_images/pot_UB10aT0.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

CollabArt

Home About


Login Register




TEST1 March 10, 2021

Traditional Handloom

Blue fabric hand-loomed for use in bedsheets, cushion covers, etc.
Submit a request to the right to customize your order.






Rithika March 08, 2021

dolls

for sale



Support

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

Buy or Donate

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](#)

Sign Up

Username*

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

Email*

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.

Already have an account? [Login](#)

Support

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

[Buy or Donate](#)

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

The screenshot displays the Selenium IDE interface within a Mozilla Firefox browser window. The browser shows the URL `https://collabartsite.herokuapp.com/logout/` and the page content includes "CollabArt", "Home", "About", "You have been logged out", "Login again", "Login", and "Register".

The Selenium IDE window, titled "Selenium IDE - collabartsite - Mozilla Firefox", shows the "Project: collabartsite" and "Executing" status. The "Login test" is selected, and the URL is `https://collabartsite.herokuapp.com`. The test steps are as follows:

	Command	Target	Value
28	click	linkText=Delete Post	
29	click	css=btn-outline-danger	
30	click	linkText=Update Profile	
31	click	linkText=Logout	

Below the test steps, the "Runs: 1 Failures: 0" status is shown. The "Log" tab displays the execution results:

Log	Reference
28: click on linkText=CollabArt OK	12:00:51
27: click on linkText=Happy mood OK	12:00:52
28: click on linkText=Delete Post OK	12:00:54
29: click on css=btn-outline-danger OK	12:00:54
30: click on linkText=Update Profile OK	12:00:55
31: click on linkText=Logout OK	12:00:58
"Login test" completed successfully	12:00:59

Testing - Selenium

Selenium IDE - register* - Mozilla Firefox

Project: register*

Executing ▾

Run all tests Ctrl+Shift+R e.herokuapp.com

	Command	Target	Value
13	type	id=id_password1	b2PXEVciw5nr3qQ
14	click	css= btn	
15	click	id=id_username	
16	type	id=id_username	manoj
17	click	id=id_password	
18	click	id=id_password	
19	type	id=id_password	b2PXEVciw5nr3qQ
20	click	css= btn	
21	mouse over	linkText=New painting!	
22	mouse out	linkText=New painting!	
23	click	linkText=Jewelry	
24	click	name=blogpost_id	

Command ▾ // [2]

Target [🔍]

Value

Description

Runs: 1 Failures: 0

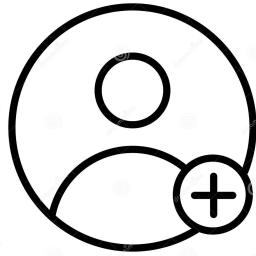
Log	Reference
19. type on id=id_password with value b2PXEVciw5nr3qQ OK	22:26:06
20. click on css= btn OK	22:26:06
21. mouseOver on linkText=New painting! OK	22:26:06
22. mouseOut on linkText=New painting! OK	22:26:19
23. click on linkText=Jewelry OK	22:26:20
24. click on name=blogpost_id OK	22:26:20
register completed successfully	

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

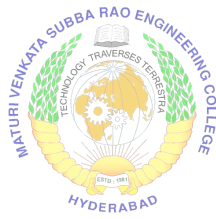


References(Major)

1. <https://docs.djangoproject.com/en/3.1/>
2. <https://www.youtube.com/watch?v=UmljXZIypDc&list=PL-osIE80TeTtoQCKZ03TU5fNfx2UY6U4p>
3. <https://30stades.com/2020/10/26/covid-19-indias-handicrafts-exports-nosedive-40-percent-artisans-turn-daily-wagers-to-make-ends-meet/>

Complete code available at:

<https://github.com/RithikaAkula/collabart>



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Thank You

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