

A  
Mini Project Report  
on

## **SOCIAL MEDIA WEBSITE FOR ARTISANS**

Submitted for partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF ENGINEERING**

in

**COMPUTER SCIENCE AND ENGINEERING**

By

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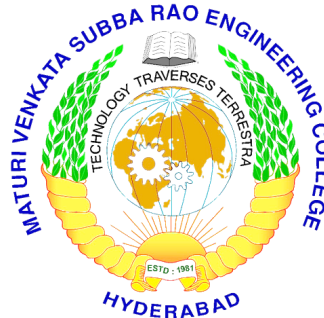


**MATURI VENKATA SUBBA RAO (MVSR) ENGINEERING COLLEGE**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
(Affiliated to Osmania University & Recognized by AICTE)  
Nadergul(V), Balapur(M), Ranga Reddy(D), Hyderabad – 501 510, Telangana, INDIA

( Academic Year: 2020 - 2021 )

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## **CERTIFICATE**

*This is to certify that the mini project work entitled “**SOCIAL MEDIA WEBSITE FOR ARTISANS**” is a bonafide work carried out by **Ashwath Thadishetty (2451-18-733-010)**, **Akula Rithika (2451-18-733-025)**, **Santhosh Kumar Repala (2451-18-733-039)** in partial fulfillment of the requirements for the award of degree of Bachelor of Engineering in Computer Science and Engineering from Maturi Venkata Subba Rao (MVSR) Engineering College, affiliated to OSMANIA UNIVERSITY, Hyderabad during the Academic Year 2020-21 under our guidance and supervision.*

*The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.*

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## **DECLARATION**

This is to certify that the work reported in the present project entitled “**Social Media Website for Artisans**” is a record of bonafide work done by us / me in the Department of Computer Science and Engineering, Maturi Venkata Subba Rao (MVSR) Engineering College, Osmania University. The reports are based on the project work done entirely by us and not copied from any other source.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree or diploma to the best of our / my knowledge and belief.

Signature of Student  
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## **ACKNOWLEDGEMENT**

We would like to express my sincere gratitude and indebtedness to my project coordinator / guide T.Sujanavan sir for his/her valuable suggestions and interest throughout the course of this project.

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We convey our heartfelt thanks to the lab staff for allowing us/me to use the required equipment whenever needed.

Finally, We would like to take this opportunity to thank my family for their support through the work. We sincerely acknowledge and thank all those who directly or indirectly supported us in completion of this work.

Ashwath Thadishetty (2451-18-733-010)  
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Santhosh Kumar Repala (2451-18-733-039)

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### VISION

- To impart technical education of the highest standards, producing competent and confident engineers with an ability to use computer science knowledge to solve societal problems.

### MISSION

- To make the learning process exciting, stimulating and interesting.
- To impart adequate fundamental knowledge and soft skills to students.
- To expose students to advanced computer technologies in order to excel in engineering practices by bringing out the creativity in students.
- To develop economically feasible and socially acceptable software.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The Program Educational Objectives of the undergraduate program in Computer Science & Engineering are to prepare graduates who will:

1. Apply fundamentals obtained during the programme to successfully execute industry related software projects as a team member, leader or entrepreneur to meet customer business objectives.
2. Engage into life-long learning by pursuing professional certifications, higher education or research in the emerging areas of information processing and intelligent systems.
3. Understand the impact of computing on society, environment and make technical contributions through ethical practices.

## (A) PROGRAM OUTCOMES(POs)

At the end of the program the students (Engineering Graduates) will be able to:

1. **Engineering knowledge:** Apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## **(B) PROGRAM SPECIFIC OUTCOMES (PSOs)**

13. **(PSO-1)** Demonstrate competence to build effective solutions for computational real-world problems using software and hardware across multi-disciplinary domains.
  14. **(PSO-2)** Adapt to current computing trends for meeting the industrial and societal needs through a holistic professional development leading to pioneering careers or entrepreneurship
- 

## **COURSE OBJECTIVES AND OUTCOMES**

### **Course Objectives**

- To enhance practical and professional skills.
- To familiarize tools and techniques of systematic literature survey and documentation
- To expose the students to industry practices and team work.
- To encourage students to work with innovative and entrepreneurial ideas

### **Course Outcomes**

Student will be able to:-

1. Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to the real-world problems.
2. Evaluate different solutions based on economic and technical feasibility.
3. Effectively plan a project and confidently perform all aspects of project management.
4. Demonstrate effective written and oral communication skills.
5. Demonstrate skills necessary for working in a team.

## **ABSTRACT**

Artisans are the backbone of the 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 marketplaces, the number of Indian artisans has been rapidly decreasing. *“India’s handicrafts exports nosedive 40%; artisans turn daily wagers to make ends meet.”* quoted a stades article dated October 26, 2020. This dip calls for re-investment in artisans to safeguard history, culture, and an essential income resource. With prominent global firms like Amazon looking to collaborate with regional artisans, and startups like Meesho aiding small businesses to build their brands, a social website to share and promote their work is the need of the hour.

CollabArt is a Social Media Platform built using the Django framework. Its target audience are the artisans with inadequate or limited resources. The ability to showcase their commodities to the world is a dream every artist aspires to achieve. CollabArt turns this aspiration into actuality, with its content being open to all. The home page has a blog-style layout with posts ordered from the most recent to the least. Anybody with the website URL, a web browser, and Internet connectivity can access it. A registered user can create/update/delete their posts, and like, and comment on other's posts. The capability to post would enable these users to utilize the website as a marketplace. A user can register to the site, create their profile, and begin posting right away. Supporting these artisans has been made easier through the Buy or Donate page. This option would let the general audience submit a request and connect to the site's administrator who would establish communication between the buyer/donor and the artist. Currently, the website has a small database, but CollabArt intends to cater to the needs of a larger audience and add features like messaging and payments soon.



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**LIST OF SYMBOLS, ABBREVIATIONS AND ACRONYMS**

<b>API</b>	<b>Application programming interface</b>
<b>AWS</b>	<b>Amazon Web Services</b>
<b>CSS</b>	<b>Cascading Style Sheets</b>
<b>DDL</b>	<b>Data Definition Language</b>
<b>DML</b>	<b>Data Manipulation Language</b>
<b>GUI</b>	<b>Graphic User Interface</b>
<b>HTML5</b>	<b>Hypertext Markup Language 5</b>
<b>IAM</b>	<b>Identity and Access Management</b>
<b>PaaS</b>	<b>Platform as a Service</b>
<b>PC</b>	<b>Personal Computer</b>
<b>OS</b>	<b>Operating System</b>
<b>S3</b>	<b>Simple Storage Service</b>
<b>SDK</b>	<b>Software Development Kit</b>
<b>SQL</b>	<b>Structured Query Language</b>
<b>UML</b>	<b>Unified Modelling Language</b>
<b>URL</b>	<b>Uniform Resource Locator</b>
<b>repo</b>	<b>repository</b>

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## **1. INTRODUCTION**

### **1.1 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 states 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.

### **1.2 Objectives**

The website, named CollabArt, intends to achieve the following objectives:

- Free and open to use for all, i.e., no registration should be required for a general user to view the website's content.
- Allow interested users to register to the site 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.

### **1.3 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 features as deliverables to its users:

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

#### **1.3.1 Features**

- General user features:
  - View all posts by all users or one particular user at a time
  - Send a Buy or Donate request
  - Register to site using the ‘Sign Up’ page
- Registered user features:
  - Log in/Logout
  - create/update/delete posts
  - like/comment
  - Edit personal details
  - Reset password through email verification

#### **1.3.2 Out of Scope**

Features that are beyond the scope of the project are:

- Send/Accept/Decline friend requests
- Chat interface
- Payment gateway for sales or donations
- Large-scale implementation

## **2. TECHNOLOGY REVIEW**

The website is built using Django, a Python-based free and open-source web framework that follows the model-template-views architectural pattern.

### **2.1 Frontend**

#### **2.1.1 HTML5, CSS**

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. CSS is a style sheet language used for describing the presentation of a document that is written in a markup language.

#### **2.1.2 Bootstrap**

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components. Some custom CSS styling is defined explicitly for the website.

#### **2.1.3 Canva**

The website's logo was created using Canva, a graphic design platform used to create social media graphics, presentations, posters, documents, and other visual content.

### **2.2 Backend**

#### **2.2.1 Django**

"Django admin" is an auto-generated backend interface that allows website management for several simple use cases efficiently.

Django has high security, preventing threats like SQL injection, cross-site scripting, cross-site request forgery, and clickjacking. Its user authentication system provides a secure way to manage user accounts and passwords.

#### **2.2.2 SQLite**

Database creation, updation, deletion are integrated into Python through an SQLite database.

## 2.3 Python packages

Package name	Version
asgiref	3.3.1
boto3	1.17.22
botocore	1.20.22
dj-database-url	0.5.0
Django	3.1.7
django-crispy-forms	1.11.1
django-heroku	0.3.1
django-storages	1.11.1
gunicorn	20.0.4
jmespath	0.10.0
Pillow	8.1.2
psycopg2	2.8.6
python-dateutil	2.8.1
pytz	2021.1
s3transfer	0.3.4
six	1.15.0
sqlparse	0.4.1
urllib3	1.26.3
whitenoise	5.2.0

Table 2.3.1: Python packages and versions



## **2.4 Storage**

### **2.4.1 AWS S3**

Amazon S3 is a service offered by Amazon Web Services that provides object storage through a web service interface. It replicates data across servers and data centers within a selected region to achieve high availability. An AWS account and a bucket containing all user posts and profile images were created with the capability to add, update and delete them by an authorized user.

### **2.4.2 AWS IAM**

AWS Identity and Access Management (IAM) enables us to manage access to AWS services and resources securely. Using IAM, AWS users and groups can be created and managed and also use permissions to allow and deny their access to AWS resources.

### **2.4.3 S3Boto3Storage**

The supported backend for interacting with Amazon's S3, through Django is S3Boto3Storage, based on the boto3 library. It creates, configures, and manages the AWS S3 services. The SDK provides an object-oriented API and also low-level access to AWS services.

## **2.5 Deployment**

### **2.5.1 Heroku**

Heroku is a PaaS based on a managed container system, with integrated data services and a robust ecosystem, for deploying and running modern apps.

Website URL: <https://collabartsite.herokuapp.com>

### **2.5.2 PostgreSQL**

PostgreSQL is a free and open-source relational database management system emphasizing extensibility and SQL compliance. The site's database was moved to PostgreSQL for better compatibility with Heroku.

## **2.6 Version Control**

### **Git**

Git is a software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during development.

### **3. SYSTEM REQUIREMENTS**

<b>Device</b>	Desktop, PC, Mobile Phone		
<b>Memory</b>	2 GB minimum		
<b>Screen resolution</b>	1280x1024 or larger (desktop/PC), 360x640 or larger (mobile)		
<b>Internet connection</b>	Required		
<b>URL</b>	<a href="https://collabartsite.herokuapp.com">https://collabartsite.herokuapp.com</a>		
<b>Other</b>	Browser supports JavaScript and style sheets		
	<b>Windows Requirements</b>	<b>Mac Requirements</b>	<b>Linux Requirements</b>
<b>Operating system</b>	Windows 8 or later	macOS Sierra 10.12 or later	64-bit Ubuntu 14.04+, Debian 8+, openSUSE 13.3+, or Fedora Linux 24+
<b>Processor</b>	Intel Pentium 4 or later	Intel	Intel Pentium 4 or later
<b>Web Browser</b>	Google Chrome(latest), Microsoft Edge(latest), Firefox(latest), Internet Explorer 9 or higher	Safari(latest), iPhone Safari	Google Chrome(latest), Microsoft Edge(latest), Firefox(latest), Internet Explorer 9 or higher

Table 3.1: System Requirements

Any user with a device that meets the above recommended requirements and the valid URL to the website can access the site. These users automatically become ‘General users’ or ‘visitors’ or ‘general public’ of the website, and shall be referred to by these names in this document.

## 4. SYSTEM DESIGN

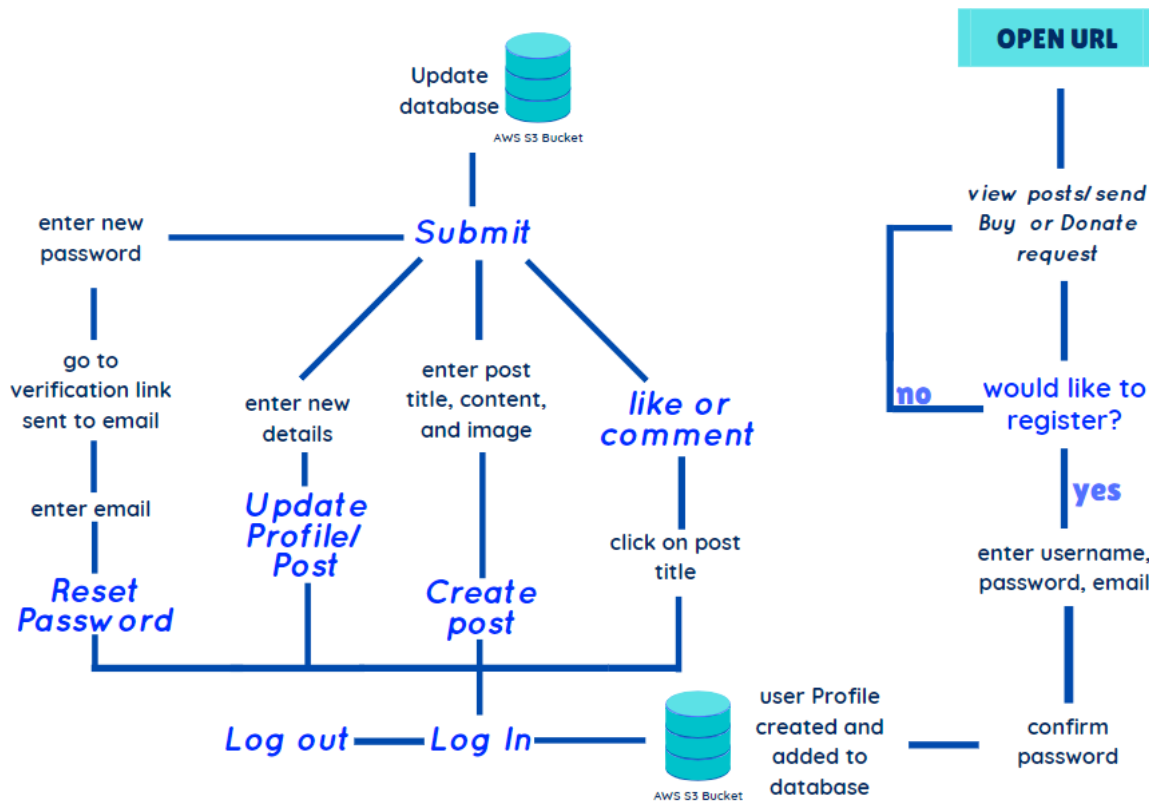


Figure 4: Basic System Design

The System Design can be understood through the UML diagrams drawn. All functionalities, classes, methods and sequences are depicted in different forms through these diagrams. Software used to draw diagrams: Umbrello.

## 4.1 Use Case Diagram



Figure 4.1: Use case diagram

## 4.2 Class Diagram

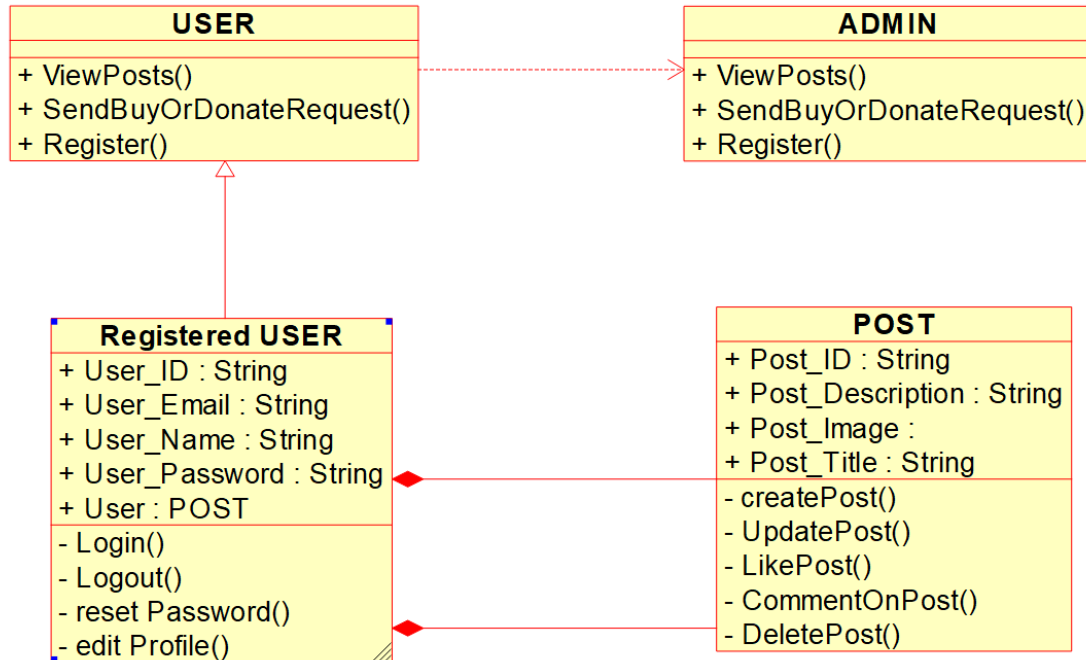


Figure 4.2: Class diagram

## 4.3 Activity Diagrams

### 4.3.1 For Login Page

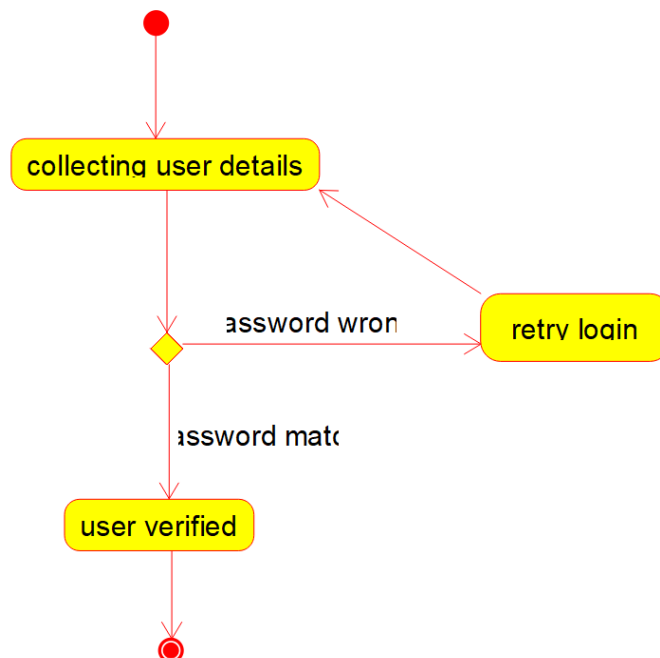


Figure 4.3.1: Activity Diagram For Login Page

### 4.3.2 For Register Page

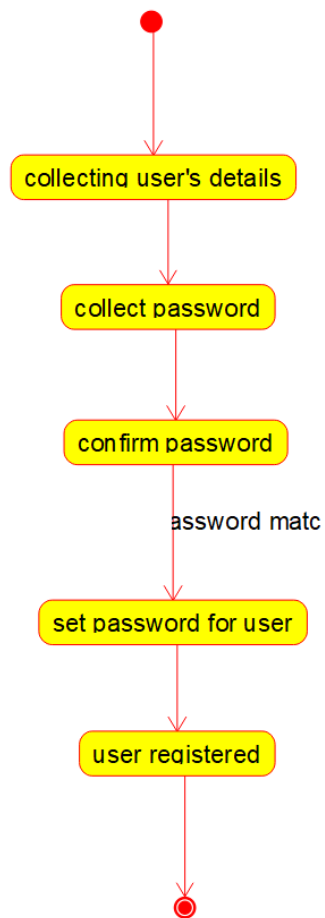


Figure 4.3.2: Activity Diagram For Register Page

### 4.4 Sequence Diagram for Admin user

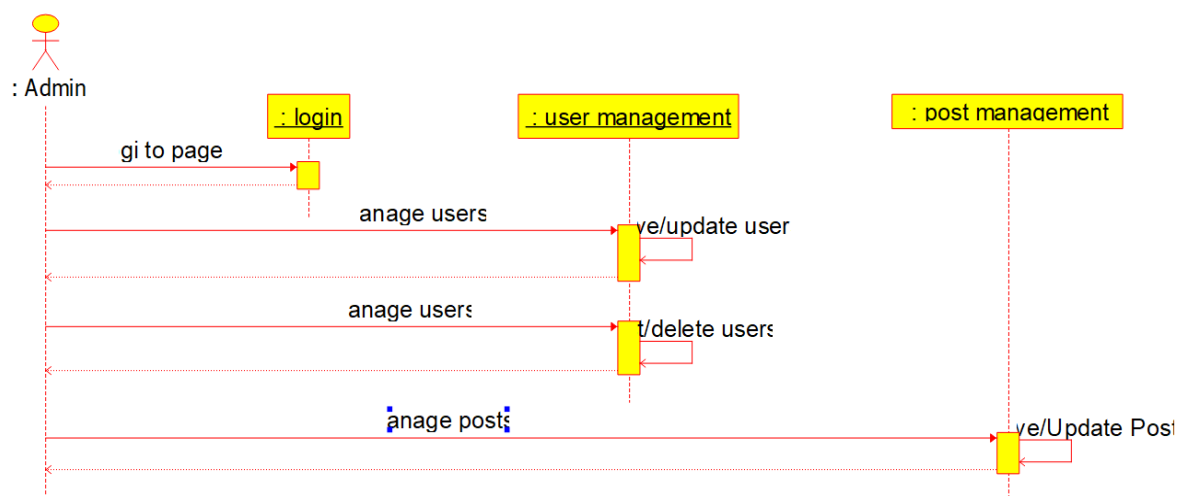


Figure 4.4: Sequence Diagram for Admin user

## 4.5 State Diagrams

### 4.5.1 For Post Class

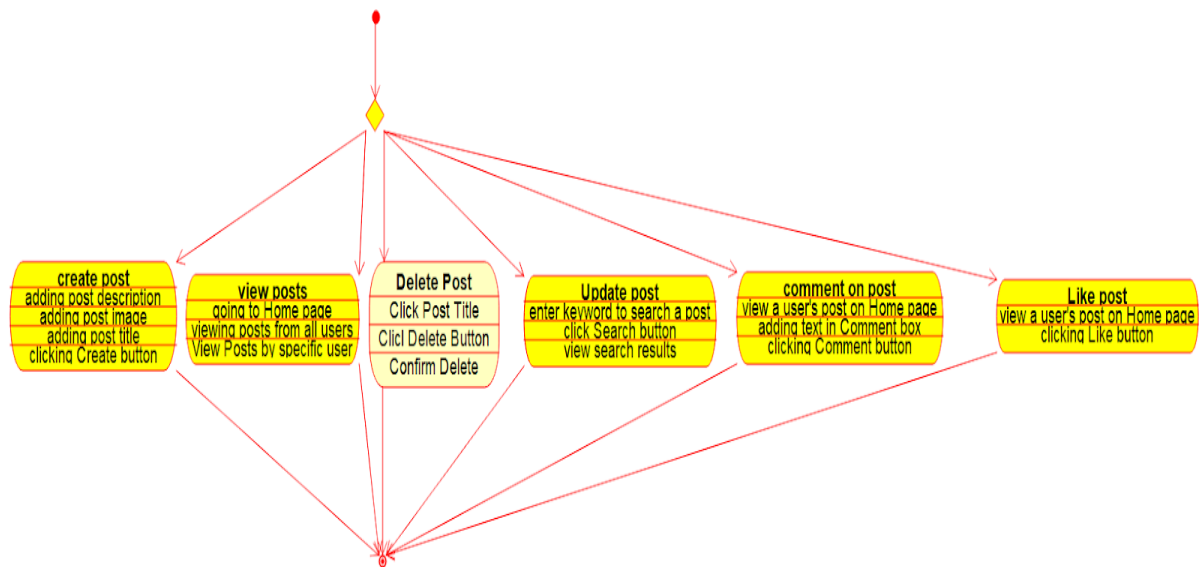


Figure 4.5.1: State diagram for Post class

### 4.5.2 For User Class

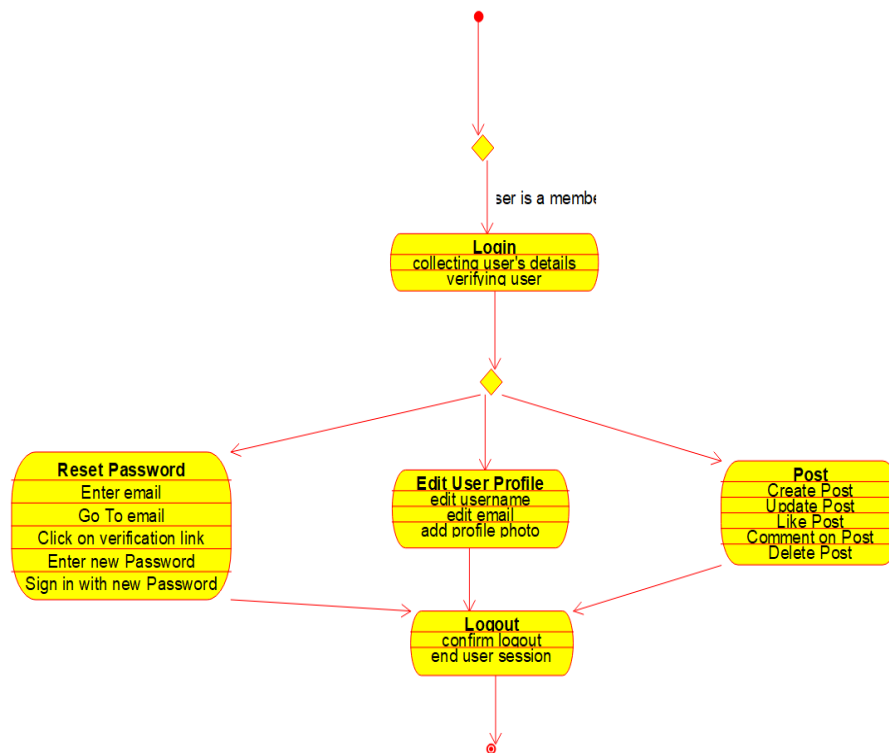


Figure 4.5.2: State diagram for User class

### 4.5.3 For Admin Class

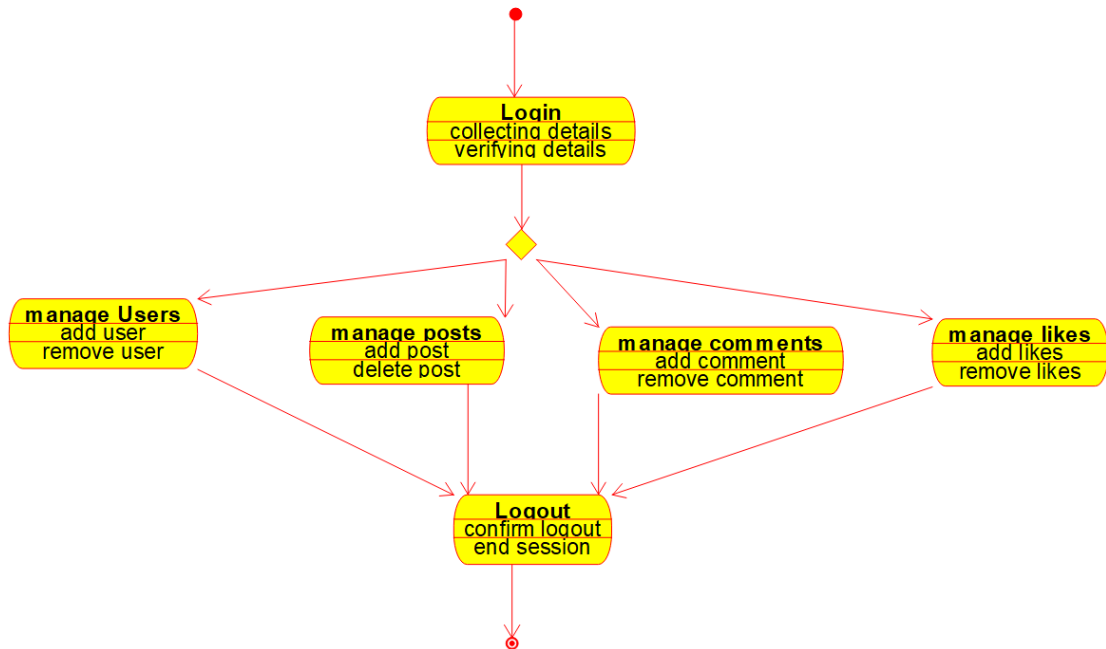


Figure 4.5.3: State Diagram For Admin Class

### 4.6 Component Diagram

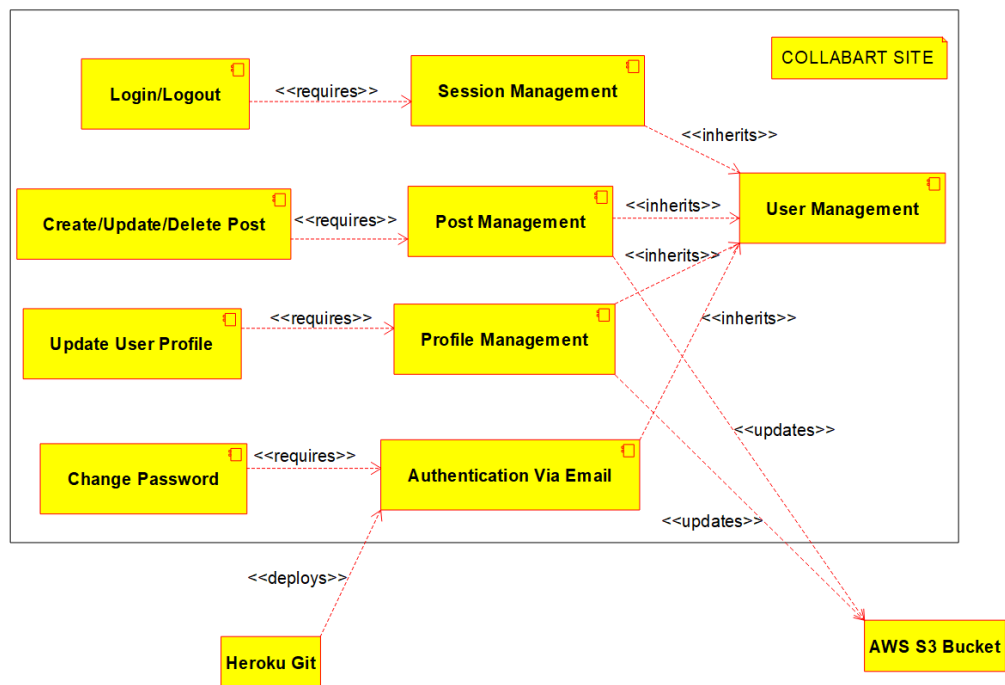


Figure 4.6: Component Diagram



## 4.7 Deployment Diagram

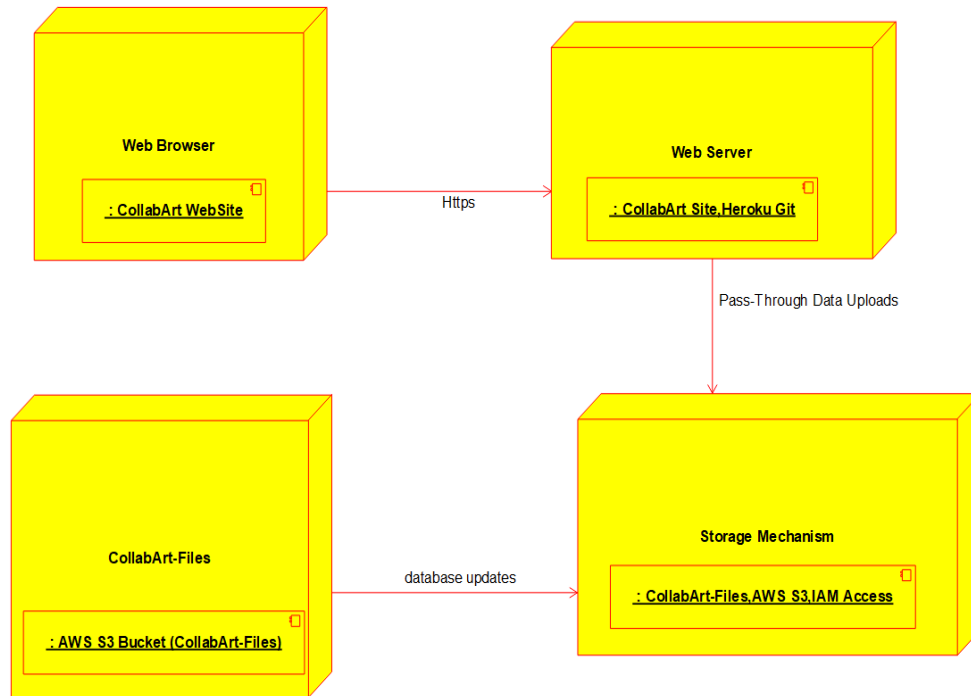


Figure 4.7: Deployment Diagram

## 5. IMPLEMENTATION

### 5.1 Django Framework

There are many Web Development tools and technologies available, and of them, Django was chosen for the implementation of this website. The following features are exclusive to Django and aid in simpler and faster web development:

- URL routing
- Free API
- Easy Database Migrations
- New capabilities can be plugged-in using applications
- Default Admin section
- Easy-to-understand Documentation and Tutorials
- Scalable
- High Security

### 5.2 Planning

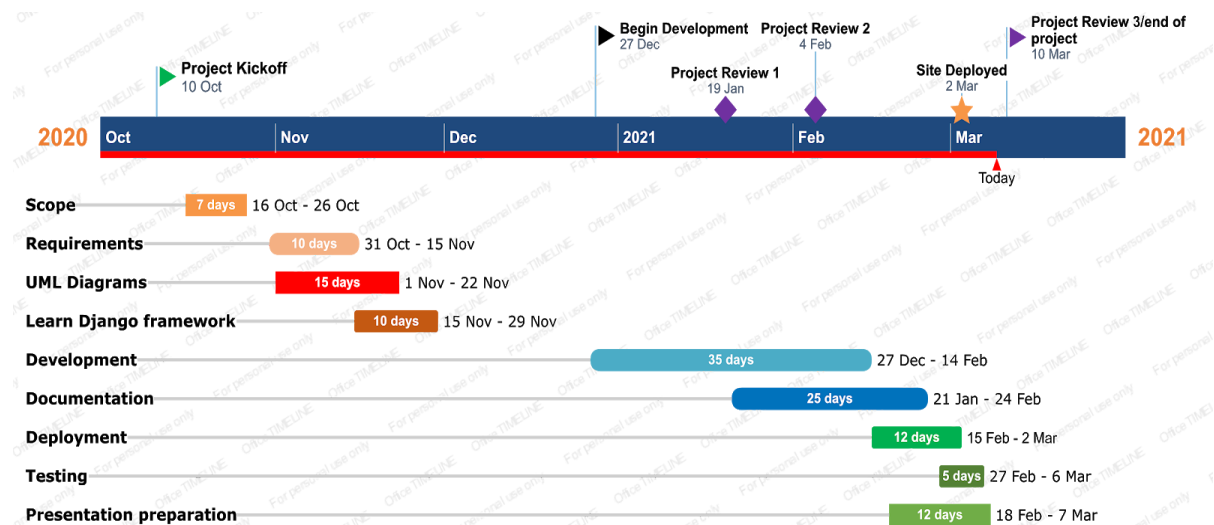


Fig. 5.2 Development Timeline

### 5.3 Collaboration

GitHub is used as a collaboration and version control tool in this project. The teammates were added as collaborators to the public GitHub repository. The repo was branched every time a new feature was added by a teammate, pull requests were made, and upon approval from all, were merged with the main branch.

Github public repository URL: <https://github.com/RithikaAkula/collabart>

The top screenshot displays the GitHub repository page for 'RithikaAkula / collabart'. It shows the repository name, a search bar, and navigation links like 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The repository has 1 branch and 0 tags. A table lists the initial commit files: .vscode, blog, collabart, users, .gitignore, Profile, README.md, manage.py, and requirements.txt, all committed 9 days ago. The README preview shows the title 'CollabArt'.

The bottom screenshot shows the full content of the README.md file. It includes the title 'CollabArt', a description 'A social media website for Artisans to promote their work and support them.', and details about the Django framework and Heroku deployment. It also lists general and registered user features.

**CollabArt**

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

CollabArt is built using the **Django framework** and deployed using **Heroku**.

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. Creating a social platform for artisans where they can share their art and can connect to the general public through it is the need of the hour.

**General user features:**

- View all posts by all users or one particular user at a time
- Send a Buy or Donate request
- Register to site using the 'Sign Up' page

**Registered user features:**

- Log in/Logout
- create/update/delete posts
- like/comment
- Edit personal details
- Reset password through email verification

**URL:** <https://collabartsite.herokuapp.com>

## 5.4 Python packages and database connectivity

The below graph has been plotted using graphviz.

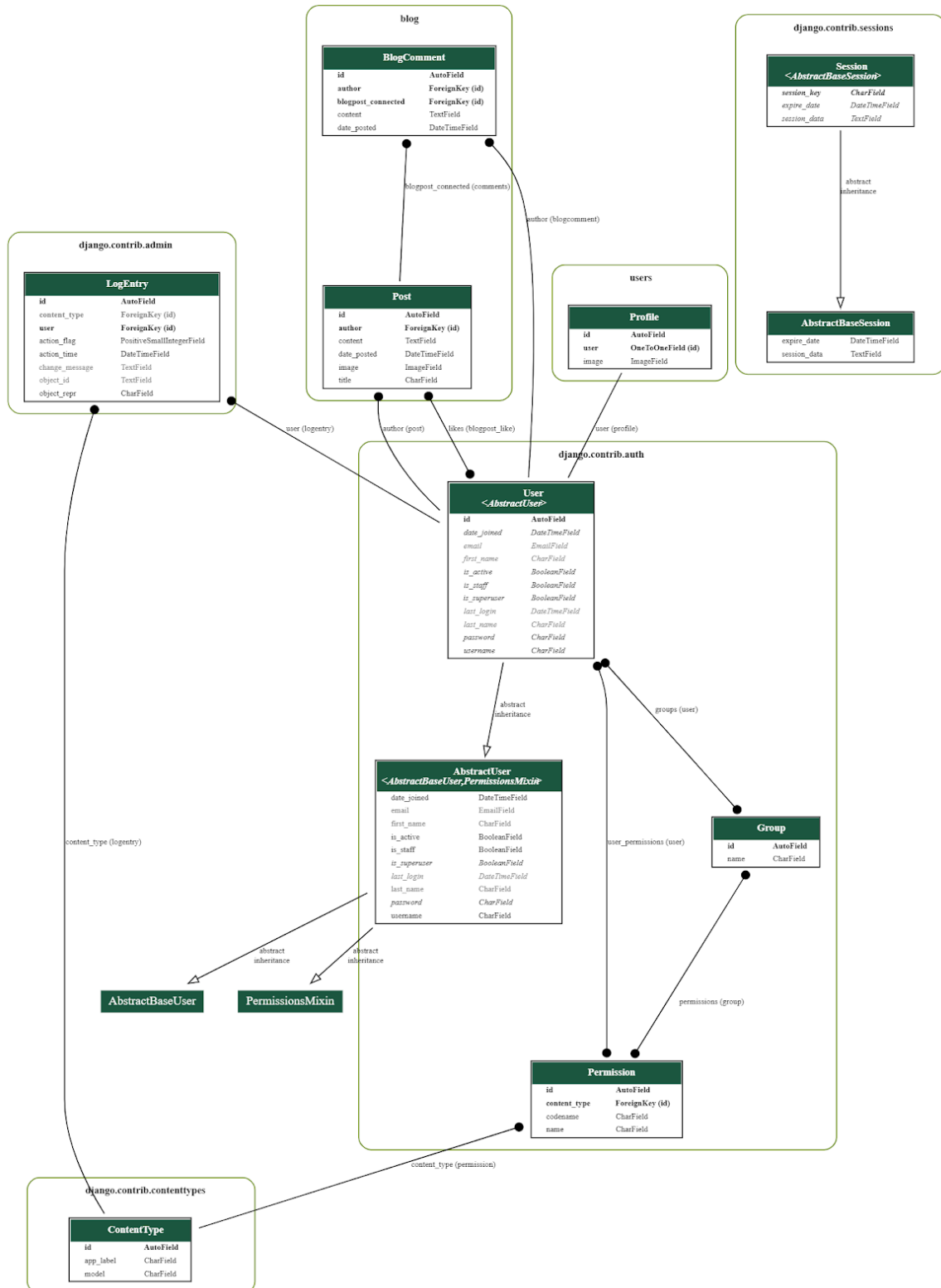
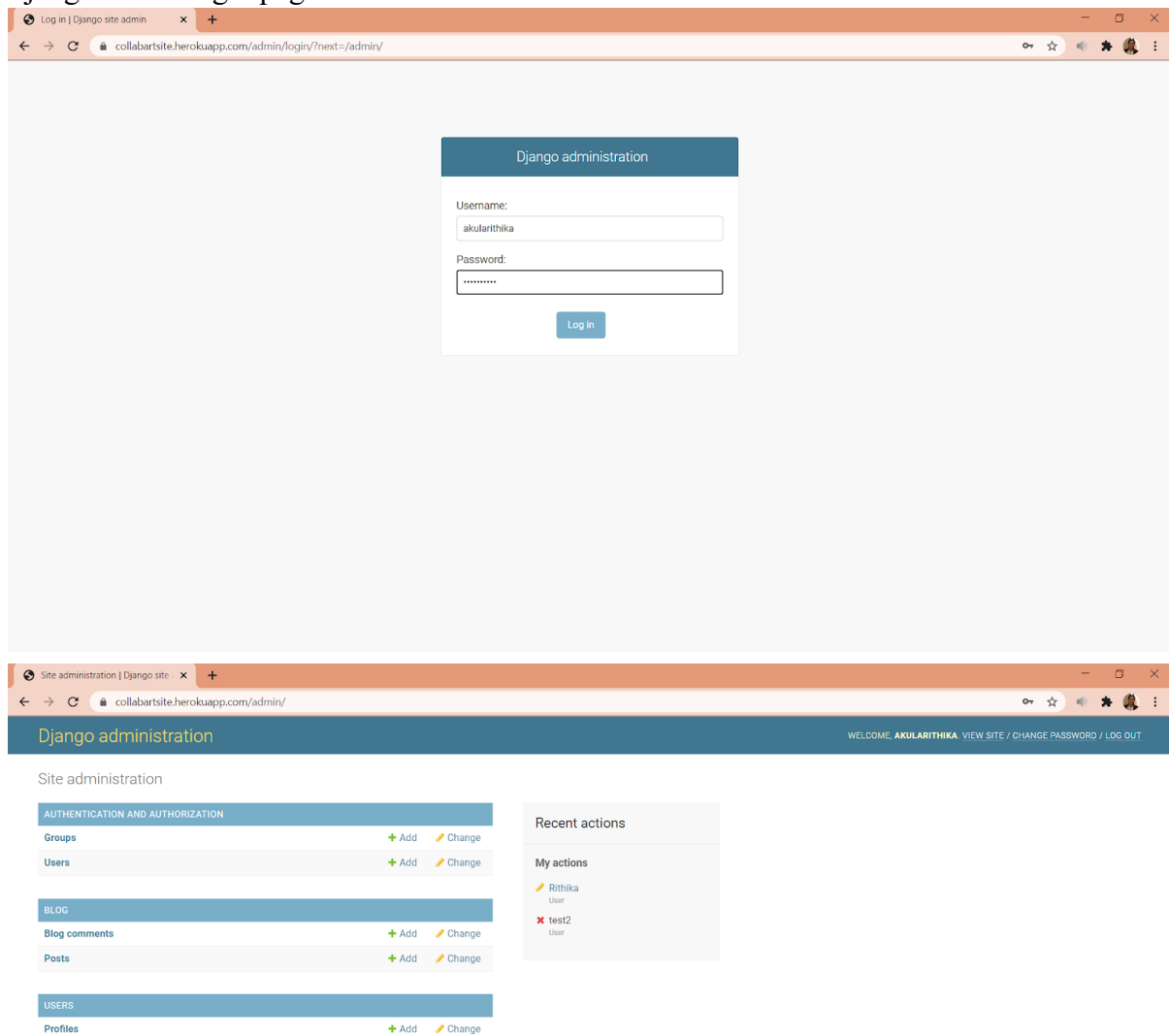


Figure 5.4: packages and database connectivity

All Django websites come with an in-built admin interface and a GUI to update the database in a simple manner without having to type the DML or DDL commands.

Django admin login page:

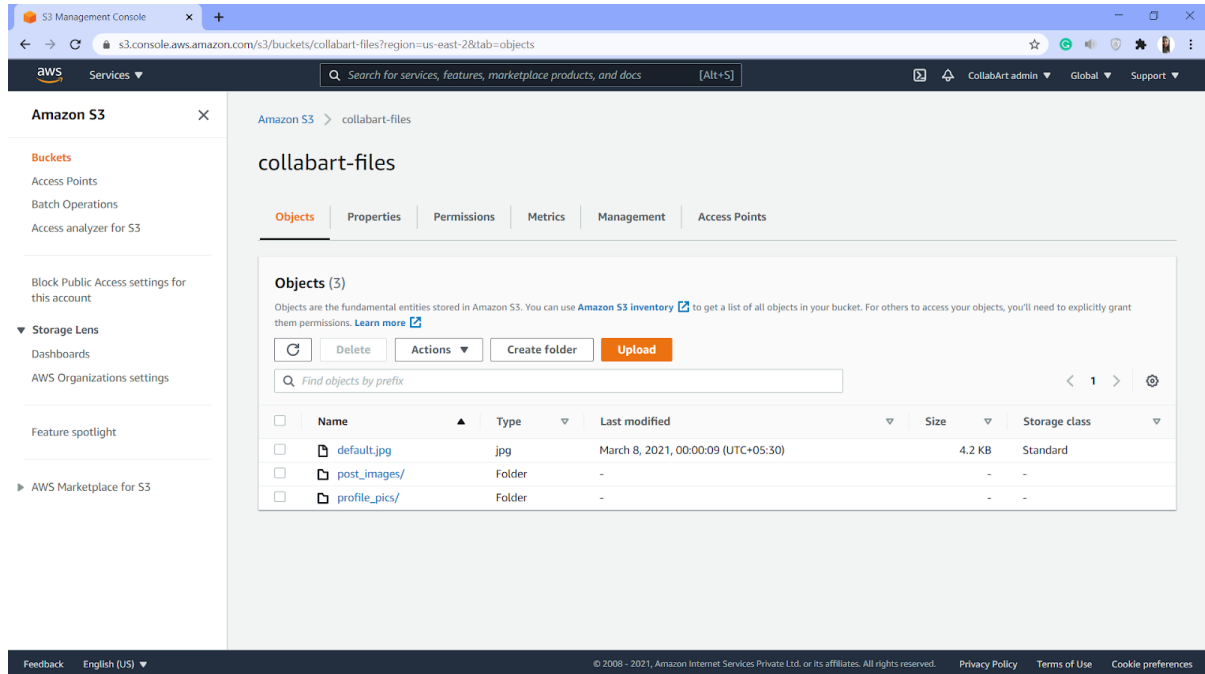


As seen above, the Django admin can access all views and models created in the website. The Authentication and Authorization models are in built in every Django application

## 5.5 Cloud storage

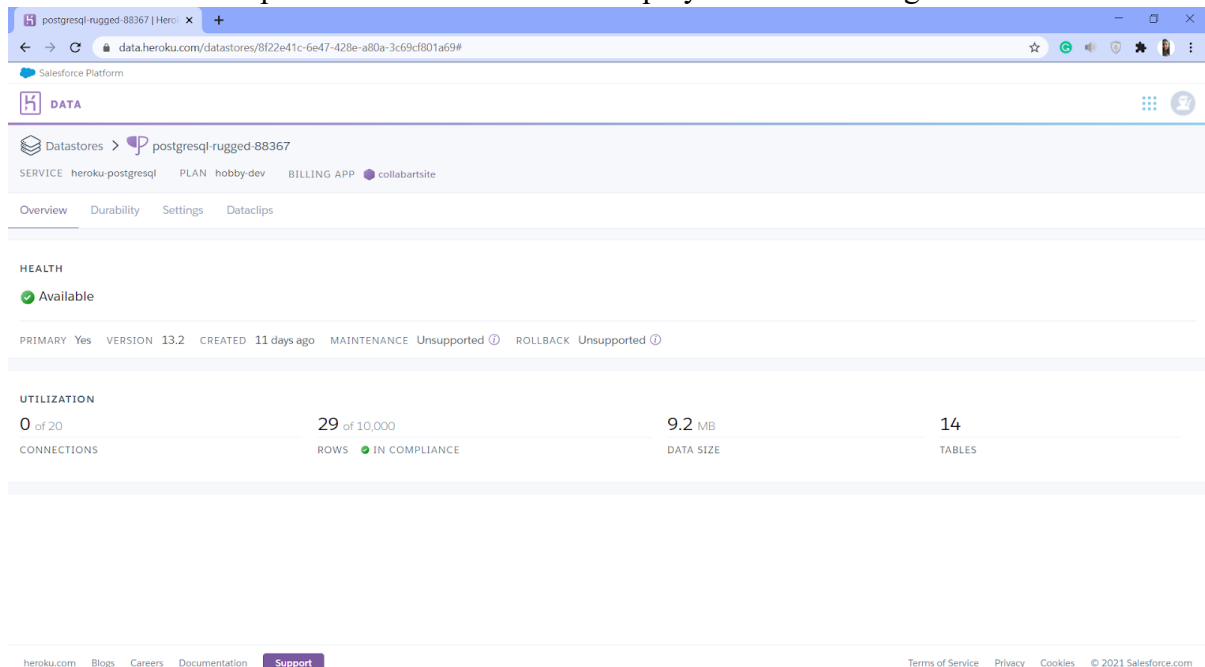
### 5.5.1 AWS S3 bucket

An AWS free-tier account was created. The S3 Storage feature available was set up and along with integration with IAM, we could use the S3 service for cloud storage of all files created, updated or deleted at the CollabArt site.



### 5.5.2 Heroku

The free tier subscription to Heroku is used for deployment and hosting.



Heroku has the PostgreSQL add-on to support Data storage and access. The admin of the app can access the database from the command prompt opened in the local repo of the site.

The list of tables are:

```
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)

The database can be accessed using basic DDL and DML commands.

```
collabartsite::DATABASE=> select * from blog_post;
```

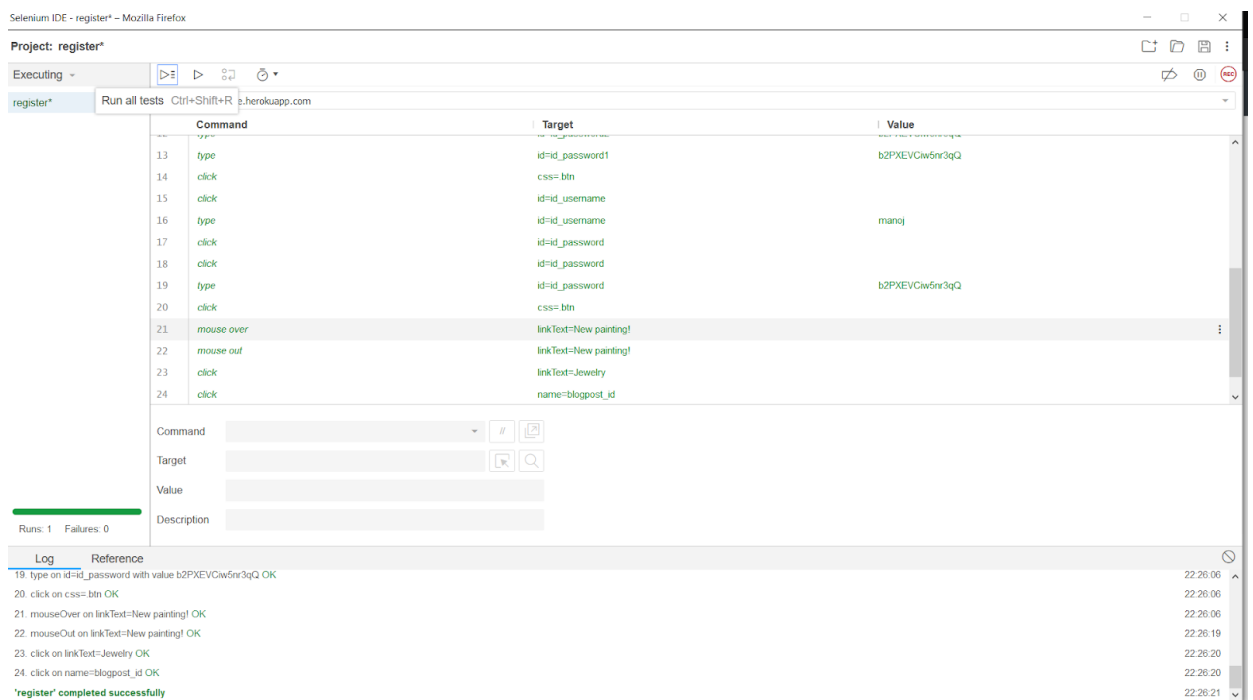
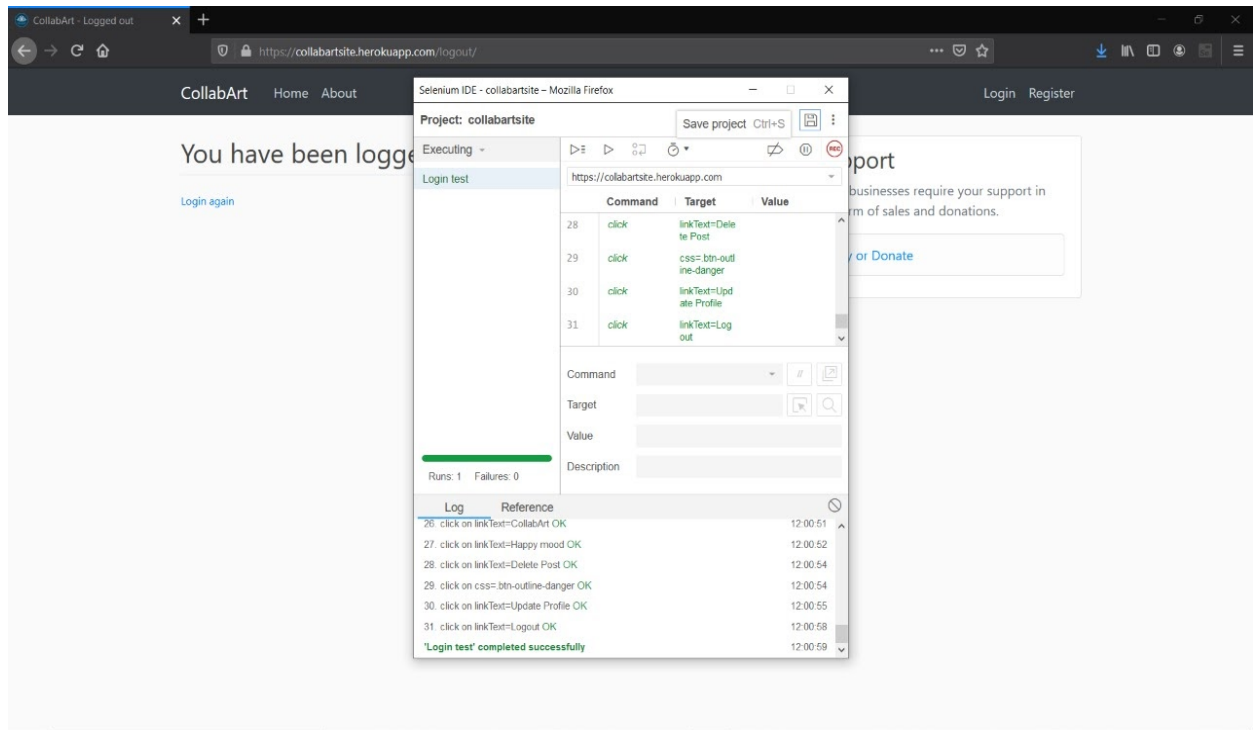
id	title	image	content	date_posted	author_id
1	Handloom	post_images/threads_Brdn6Gg.jpg	Handloom Cloth making\r	2021-03-08 02:27:33.951959+00	2
2	Tribal Jewelry	post_images/jewellery_UCoFb25.jpg	Made using traditional techniques and hand-dyed thread traditional tribal jewelry made with locally-sourced beads, stones, and crystals	2021-03-08 02:29:44.73576+00	2
3	Pot Painting	post_images/pot_U8l0aT0.jpg	Pots sculpted and painted using organic colors\r	2021-03-08 02:57:20.547242+00	1
4	Tribal Art Warli	post_images/Tribal-Folk-Art-Warli.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	2021-03-08 03:49:29.252477+00	3
5	Newly made dolls	post_images/doll_PelkuC8.jpg	The themes chosen are from the nature.Harvesting is one of the major theme.Paintings are mainly created on mud walls of tribal houses.	2021-03-08 03:43:59+00	4
6	dolls	post_images/dolls.jpg	traditional dolls made of wood for sale	2021-03-08 15:25:32.801914+00	1
7	COLOURFUL	post_images/painting2.jpg	Traditional painting done by using organic paints on canvas \r	2021-03-08 15:00:13.687868+00	5
8	Traditional Handloom	post_images/handloom.jpg	Enjoyed a lot \r Rs. 150 Blue fabric hand-loomed for use in bedsheets, cushion covers, etc.\r	2021-03-10 04:34:25.979535+00	9
9	Cloth painting	post_images/images.jpg	Submit a request to the right to customize your order. the cloth is hand-painted	2021-03-12 18:56:47.208871+00	14
10	Jewelry	post_images/jewelry.jpg	Necklace up for sale\r	2021-03-12 19:41:44.089542+00	12
11	New painting!	post_images/paint.jpg	Send a Buy or Donate request from the link on the right to personalize and buy it. Made on hand-made paper\r	2021-03-12 19:44:53.509763+00	5
12			Depicts a tribal scene		

(11 rows)

## 6. TESTING

The site has been tested using the Selenium software.

A few test cases are shown below:





## **7. CONCLUSION**

The website currently has the following restrictions:

- Limited data storage  
Limited number of users with less access time
- No advertising of the website itself

As the website is not scaled for commercial use, it has not yet reached its actual end-users, the artisans.

We would also like to implement the following features

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

With the website being commercially deployed and with the above proposed features, 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.

## **8. REFERENCES**

The following websites were referred to in the course of learning of the technologies, development and deployment of the project:

- <https://docs.djangoproject.com/en/3.1/>
- <https://www.youtube.com/watch?v=UmljXZlYpDc&list=PL-osiE80TeTtoQCKZ03TU5fNfx2UY6U4p>
- <https://django-storages.readthedocs.io/en/latest/backends/amazon-S3.html>
- <https://devcenter.heroku.com/articles/deploying-python>

The stades article referred to in the Abstract:

- <https://30stades.com/2020/10/26/covid-19-indias-handicrafts-exports-nosedive-40-percent-artisans-turn-daily-wagers-to-make-ends-meet/>

## **9. APPENDIX**

**Complete Source Code available at the GitHub repository:**

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