Crowdfunder

Crowdfunding Portal

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT OF REQUIREMENT FOR THE AWARD OF THE DEGREE

MASTER OF COMPUTER APPLICATIONS (MCA)

OF

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

BY

Savia Varghese
Reg No: 22PMC149

Marian College Kuttikanam (Autonomous)

Peermade, Kerala – 685 531

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22PMC149

Under the guidance of
Sr. Italia Joseph Maria
Assistant Professor
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous

MARIAN COLLEGE
KUTTIKKANAM
(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikanam (Autonomous)

Peermade, Kerala – 685 531

2023

PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam(Autonomous)

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

Crowdfunder

is a bonafide record of work done by

Savia Varghese

Reg.No: 22PMC149

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

Sr. Italia Joseph Maria
Assistant Professor
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous

Mr Win Mathew John
Head of the Department
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous

Examiner

Examiner

ACKNOWLEDGEMENT

First of all, I thank the "God Almighty" for his immense grace and blessings in my life and at each stage of my project work. I would like to extend my sincere thanks to all who have guided and supported me all along.

I express my sincere gratitude to Prof Dr. Ajimon George, Principal, Marian College Kuttikkanam (Autonomous), Dr. Mendus Jacob, Director, PG Department of Computer Applications for the support given throughout the project work.

I extend my gratitude to Mr. Win Mathew John, HoD, PG Department of Computer Applications, who is a constant source of inspiration and whose advice helped me to complete this project work successfully.I express my deep sense of gratitude to my project guide, Sr. Italia Joseph Maria, Assistant Professor, PG Department of Computer Applications, for her profound guidance in the successful completion of this project work.

With great enthusiasm, I express my gratitude to all the faculty members of the PG Department of Computer Applications for their timely help and support.

Finally, I express my deep appreciation to all my friends and family members for the moral support and encouragement they have given to complete this project work successfully.

SAVIA VARGHESE

ABSTRACT

The Crowdfunding Portal is a web-based application that aims to foster a community-driven approach to funding projects across diverse categories. *Crowdfunder* is developed as a donation-based crowdfunding portal by providing a user-friendly platform for individuals and organizations to seek financial support. It is administered by an administrator who adds projects, categories, and corresponding donation amounts. The projects can be searched by the user and fall under different categories. Registered users can access the portal and make donations through secure payments thus encouraging social sharing and engagement. Users who make donations will help raise awareness and potentially attract more donors. Hence, the crowdfunding platform aims to provide financial assistance for uploaded projects with prospective donors who are interested in contributing to specific causes.

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1. INTRODUCTION

1.1 PROBLEM STATEMENT

The current problem addressed is the lack of accessible and efficient platforms for individuals and organizations to raise funds for their projects, causes, and initiatives. Traditional fundraising methods often come with significant barriers such as limited reach because localized fundraising efforts often fail to attract attention and financial contributions from individuals and organizations, public concerns about the transparency and legitimacy of fundraising initiatives due to the lack of a trusted platform or centralized system making it difficult for individuals to confidently contribute to projects, hindering potential beneficiaries from obtaining the necessary financial support.

1.2 PROPOSED SYSTEM

- The Django project for a crowdfunding portal is developed with the objective to effectively and efficiently raise funds for projects from the public who likes to donate for the wellness of the needy.
- Develop a very simplified and user-friendly web application for seeking financial assistance.
- The project details and target amount will be added by the admin category-wise.
- The projects uploaded will be of social relevance and categorized specifically so that users can donate to projects aligned with their interests and values.
- Registered users can donate an amount as their contribution to reach the target amount of the project and can view it in the contributions log.

1.3 FEATURES OF THE PROPOSED SYSTEM

The features of this website are:

- Responsive website design.
- The system avoids redundancy through the use of several types of validation.
- User-Friendly navigation.
- Facility for the user to view the contributions made by them.
- The user can select the projects they would like to donate.

2. FUNCTIONAL REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

The functional requirements for this website include:

- ***Login and Signup***: The user should be able to register themselves to use the application. The details provided at the login time will be used for donation purposes.
- ***Project listing***: The user should be able to view all the projects, descriptions, and target amounts that are uploaded by the admin on the application.
- ***Category***: The admin should be able to categorize projects based on their nature or purpose into different categories, allowing users to explore and filter projects based on their interests.
- ***Search for projects***: The user will be able to search for the projects using keywords and the results will be given as the most approximate to the user's search.
- ***Projects viewed by category***: By choosing a category, the user will be able to view the projects that fall under that category.
- ***Donation***: Registered users will be able to browse through the available projects and select the one they wish to donate.
- ***Payment:*** The payment portal provides a secure payment gateway that facilitates users to donate their desired amount to the chosen project.
- ***Contribution logs:*** After a donation is made, the log will show the project title, contributor name, the amount contributed, target amount, and timestamp of the contribution.

3. NON-FUNCTIONAL REQUIREMENTS

3.1 NON-FUNCTIONAL REQUIREMENTS

The non-functional requirements for this website are:

- ***Usability***: The proposed website is simple, and provides easy navigation to various functionalities.
- ***Maintainability***: The mean time to restore the system following a system failure must not be greater than 10 minutes.
- ***Availability***: Describes how likely the system is accessible to a user at a given point in time. Additionally, a database backup should be kept in case of hardware failure or database corruption.
- ***Security***: The database should be backed up every hour. Under failure, the system should be able to come back to normal operation in under an hour. All data must be stored, protected, or protectively marked.

4. FEATURES AND HIGHLIGHTS

4.1 FEATURES AND HIGHLIGHTS

The features and highlights of this project are:

- ***Login and Registration:*** Individuals interested in donating to the projects can register themselves in order to access the portal and later use the credentials to log in. Then the user will be redirected to the page where projects are listed.
- ***Add Projects***: The admin adds projects to the portal along with relevant details such as project title, description, images, and target donation amounts.
- ***Add Category:*** The admin adds categories so that projects can be categorized under them, allowing users to explore and filter projects based on their interests.
- ***Project listing:*** The user can view all the projects uploaded in the website along with relevant details such as project title, description, images, and target donation amounts.
- ***Projects viewed by category:*** By choosing a category, the user can view the projects that fall under that category.
- ***Search for projects:*** The user can search for projects in the portal using keywords and the results given will be the most accurate project related to the user's search**.**
- ***Donation:*** Registered users can browse through the available projects and select the one they wish to donate which redirects to a donation page with the project name, target amount, user details and the user can enter an amount to donate.
- ***Contribution logs:*** After a donation is made, the log will show the project title, contributor name, the amount contributed, target amount, and timestamp of the contribution made.
- ***Payment***: The portal provides a secure payment gateway that allows users to donate their desired amount to the chosen project.

5. THIRD-PARTY LIBRARIES

5.1 THIRD-PARTY LIBRARIES

Third-party applications and libraries in Django are pre-built components or packages developed by the community or other companies that you can use to extend the functionality of your Django projects.
It can be installed using package managers like pip, and they usually come with their own documentation and examples to guide developers in their usage. These libraries can cover a wide range of functionalities. The third-party libraries used in my project are:

The third-party libraries used in this project are:

- ***Django pillow:*** The Python Imaging Library adds image processing capabilities to your Python interpreter. This library provides extensive file format support, an efficient internal representation, and fairly powerful image processing capabilities. The core image library is designed for fast access to data stored in a few basic pixel formats. It should provide a solid foundation for a general image processing tool.

- ***Django jazzmin:*** Django jazzmin is a third-party library for Django that provides an improved admin interface. It is a modern, responsive, and customizable replacement for Django's default admin interface, a drop-in app to jazz up your Django admin site, with plenty of things you can easily customize, including a built-in UI customizer.

- ***Bootstrap:*** Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.

6. DATABASE DESIGN

6.1 DATABASE DESIGN

The main objectives behind database designing are to produce physical and logical design models of the proposed database system. Data management involves creating, modifying, deleting and adding data in files and using this data to generate reports. A well-designed database is essential to guarantee information consistency, eliminate redundant data, efficiently execute queries, and improve the database's performance. The reliability of data depends on the table structure, whereas creating primary and unique keys guarantees uniformity in the stored information.

The tables used in my project are:

CATEGORY TABLE

```
class Category(models.Model):
    name = models.CharField(max_length=50)
    description = models.TextField()
    image=models.ImageField(null=True)
```

PROJECT TABLE

```
class Project(models.Model):
    title = models.CharField(max_length=255,null=True)
    description = models.TextField(max_length=255,null=True)
    created_at = models.DateTimeField(auto_now_add=True,null=True)
    amount = models.DecimalField(max_digits=10,    decimal_places=2,default=True,
    null=True)
    image = models.ImageField(upload_to="images", height_field=None,default=True,
     null=True)
    category = models.ForeignKey(Category, on_delete=models.CASCADE)
```

CONTRIBUTION TABLE

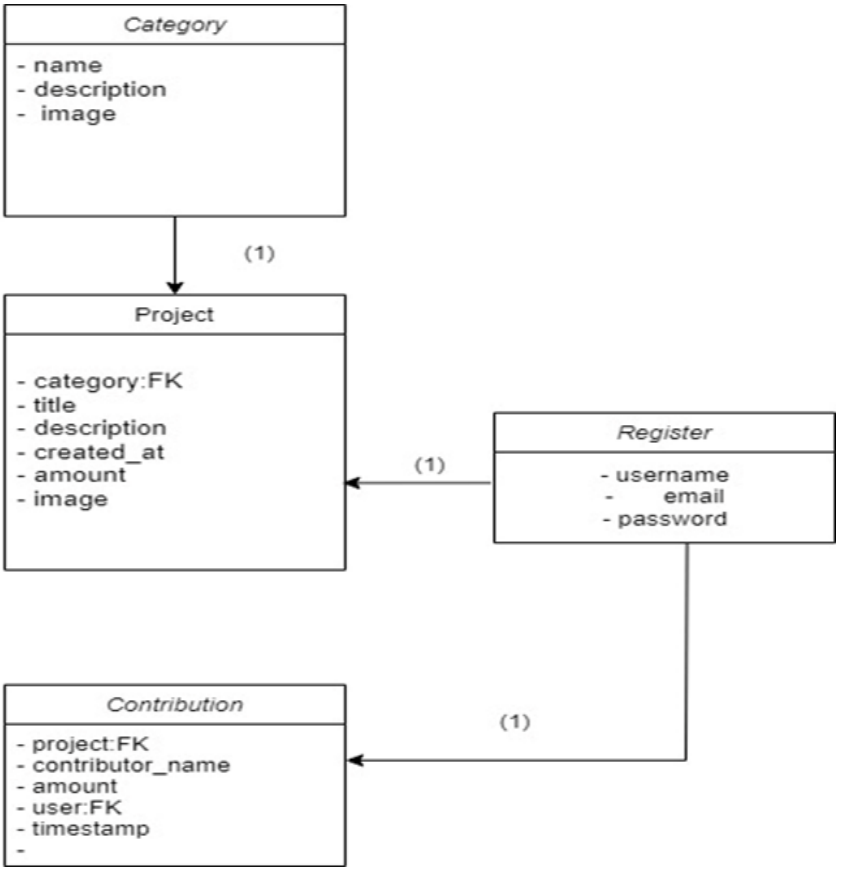
```
class Contribution(models.Model):
    project = models.ForeignKey(Project, on_delete=models.CASCADE)
    contributor_name = models.CharField(max_length=255)
    amount = models.DecimalField(max_digits=10, decimal_places=2)
    user=models.ForeignKey(register,on_delete=models.CASCADE,null=True)
    timestamp = models.DateTimeField(auto_now_add=True)
```

REGISTER TABLE

```
class register(models.Model):
    username=models.CharField(max_length=255)
    email=models.EmailField(max_length=255)
    password=models.CharField(max_length=255)
```

7. CLASS DIAGRAM

7.1.CLASS DIAGRAM



8. CHALLENGES

8.1 CHALLENGES FACED

I was confused about integrating my concept into Django and the process flow of the project. Efforts were taken to refer to a lot of crowdfunding websites to conceptualize the topic. I had to spend a lot of time learning about pushing the data from the Django admin because it was new to me. I had problems with the virtual environment residing in my project lead to dysfunctionality and resulted in unexpected errors. My project had to be restarted at that moment. While implementing the bootstrap templates in Django using CSS and JS files, they appeared to be quite difficult and generated errors.

9. FUTURE ENHANCEMENTS

9.1 FUTURE ENHANCEMENTS

1. Social Integration: Integrate social media platforms to enable users to share their supported projects and attract more donors.
2. Project Updates: Providing more detailed updates to donors about the progress and milestones of the projects they have supported. Include visual representations, such as graphs or charts, to showcase the impact of donations & foster transparency..
3. Campaigns: To conduct campaigns encompassing strategic efforts to promote and raise funds for the projects and the campaign's duration can vary based on the project's needs.

10. CONCLUSION

10.1 CONCLUSION

To conclude, Crowdfunding Portal serves as a powerful platform for connecting individuals and organizations seeking financial support with potential donors who are interested in contributing to specific projects. The portal facilitates the donation payment process and displays contribution logs. With project listings and categorized projects, the crowdfunding portal offers an intuitive interface for users to explore, select, and donate to projects aligned with their interests and values. The admin can add projects that are of relevant causes that need funding. This web application can provide a dynamic and empowering environment for individuals to donate to projects, receive financial support, and make a meaningful impact in their respective fields.

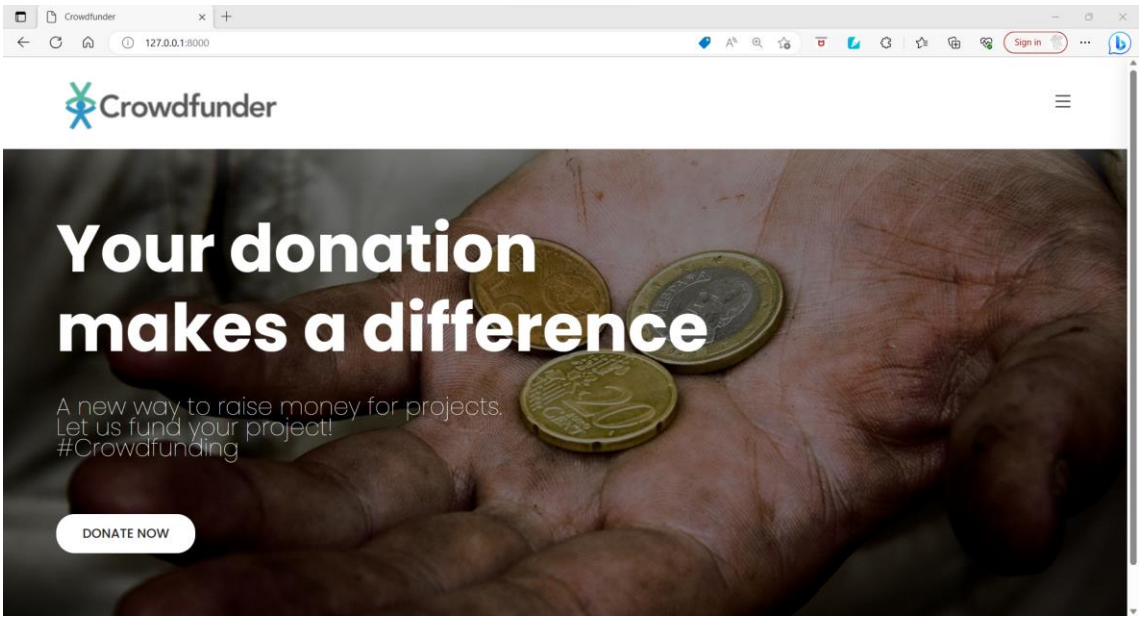
The link to my GitHub repository:
https://github.com/SaviaVarghese/Crowd-Funding-Portal.git

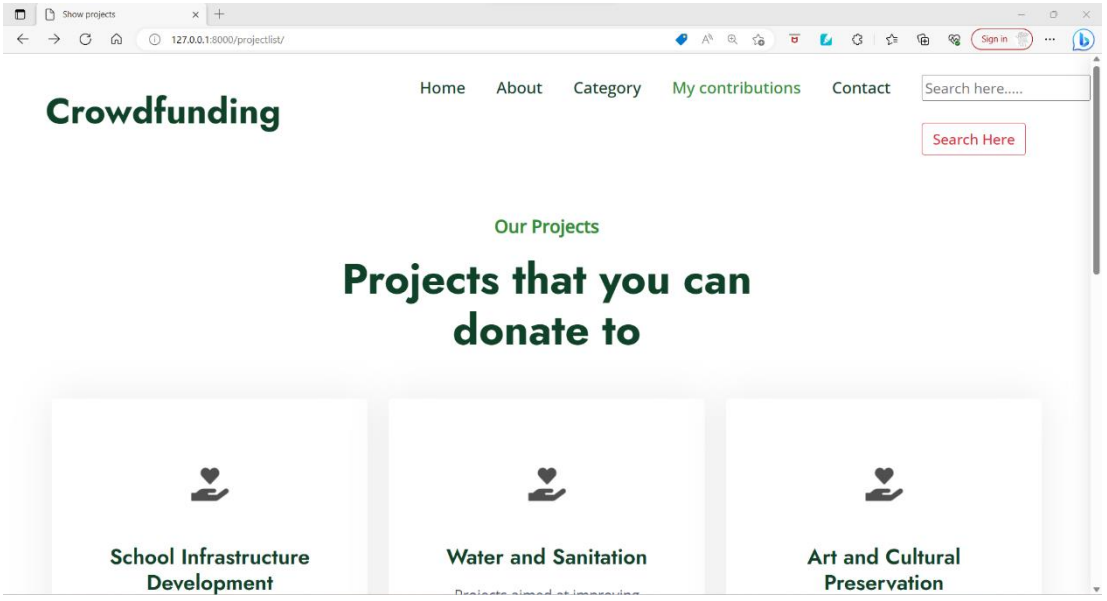
11.REFERENCES

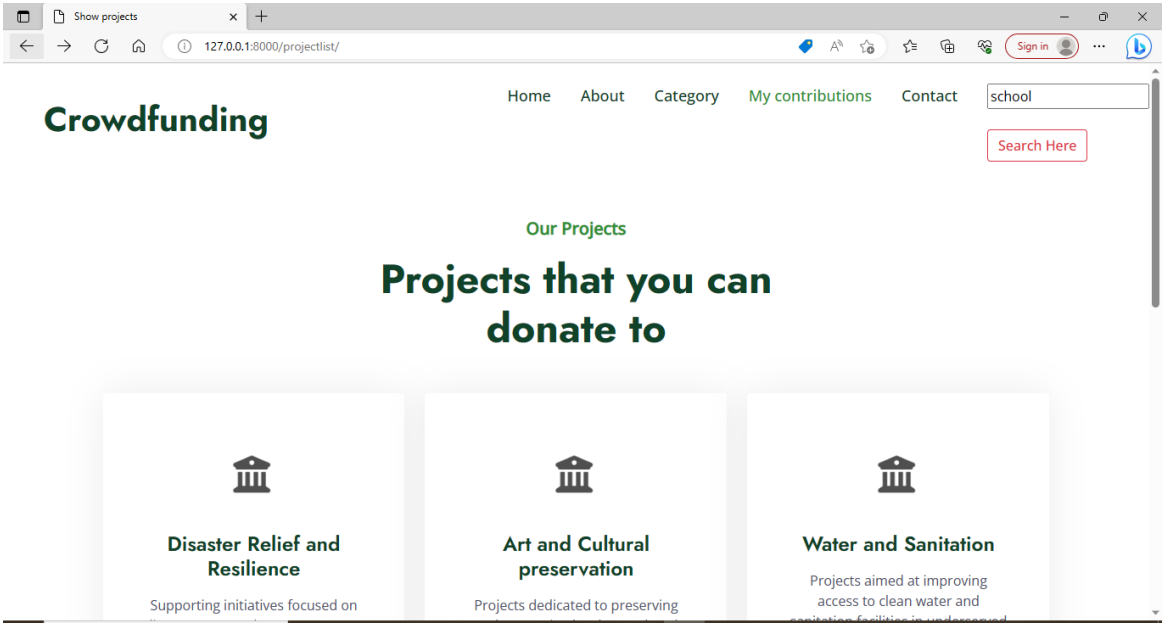
11.1 REFERENCES

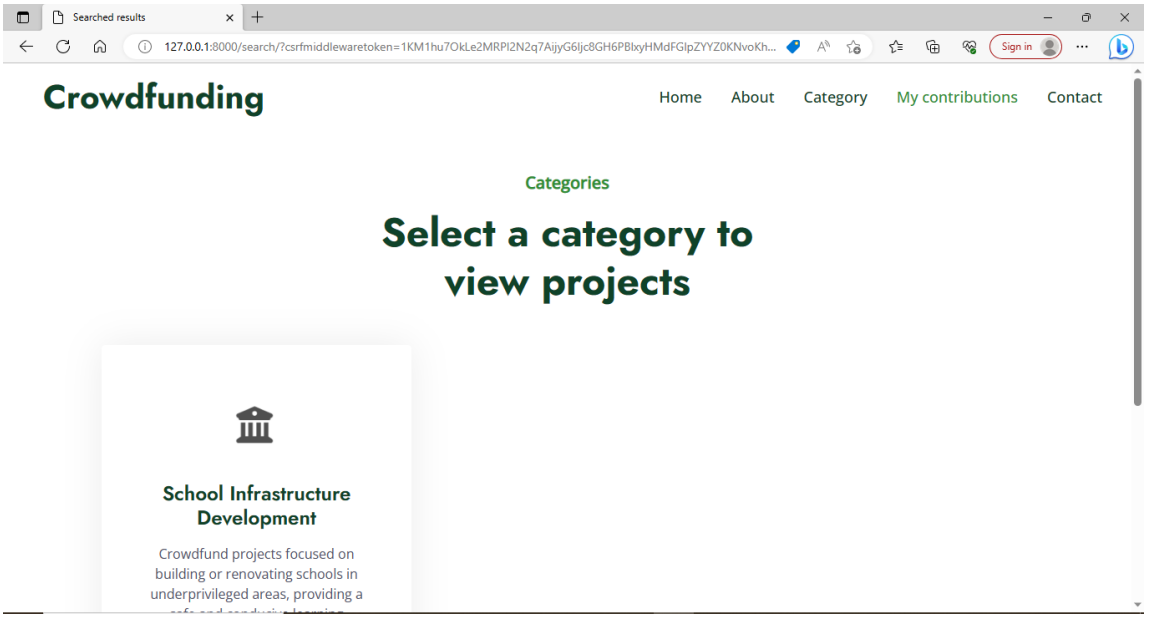
- https://xgenious.com/our-products/fundorex-crowdfunding-platform/
- https://bootstrapmade.com/
- https://themewagon.com/
- https://docs.djangoproject.com/en/4.2/
- https://www.w3schools.com/Css/css3_images.asp

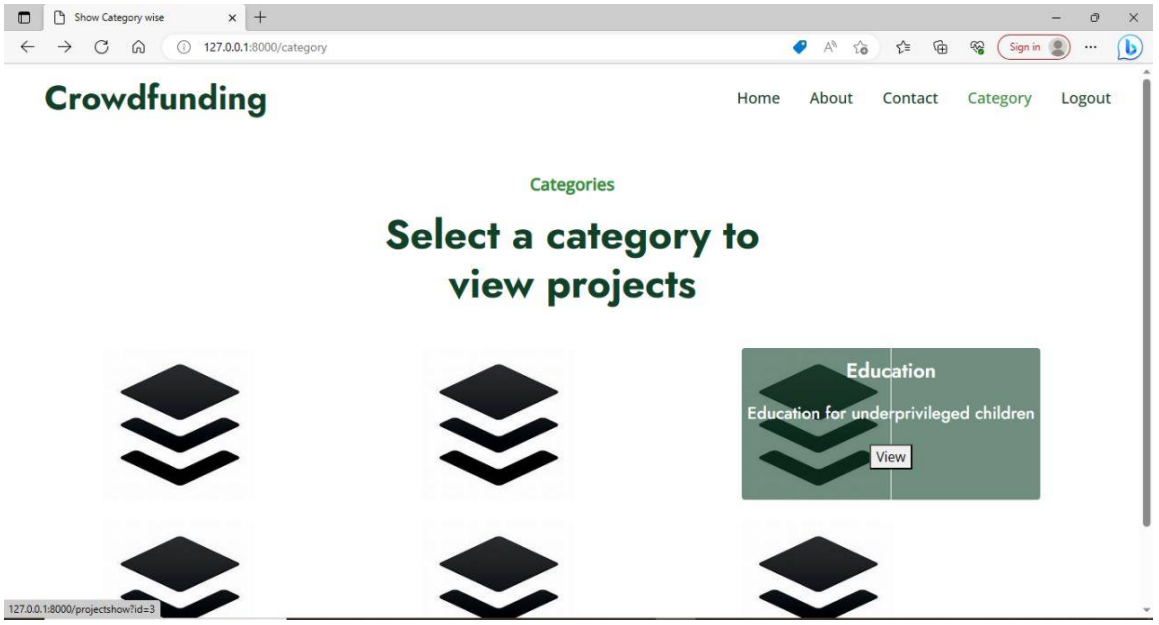
12.ANNEXURE

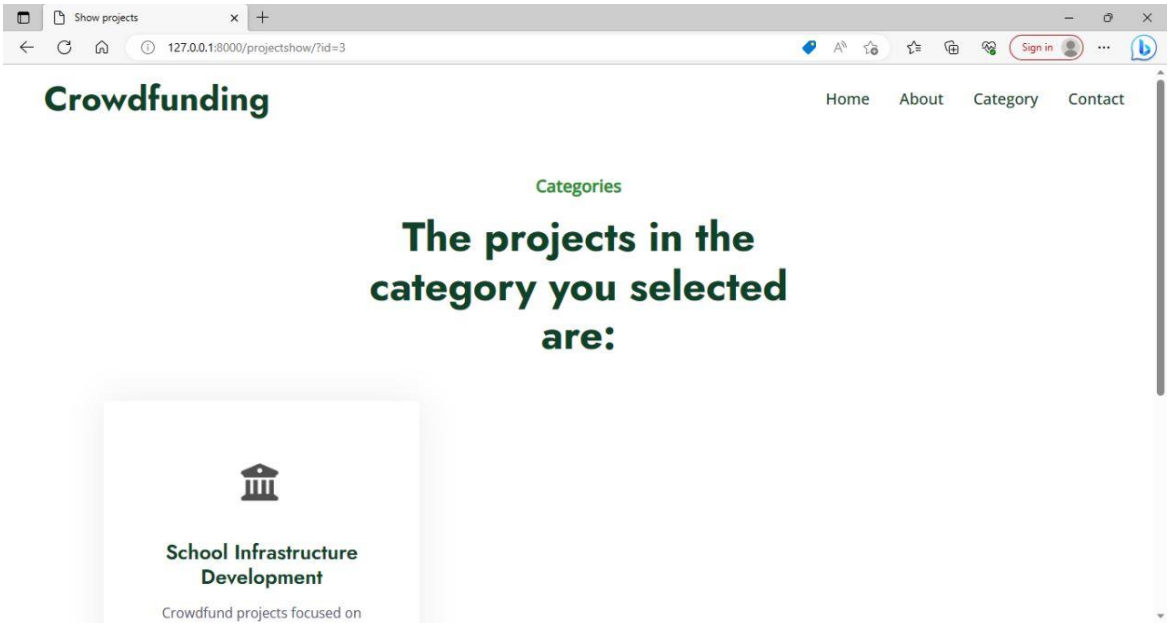

Crowdfunder
127.0.0.1:8000
Sign in
Crowdfunder
Your donation makes a difference
A new way to raise money for projects.
Let us fund your project!
#Crowdfunding
DONATE NOW

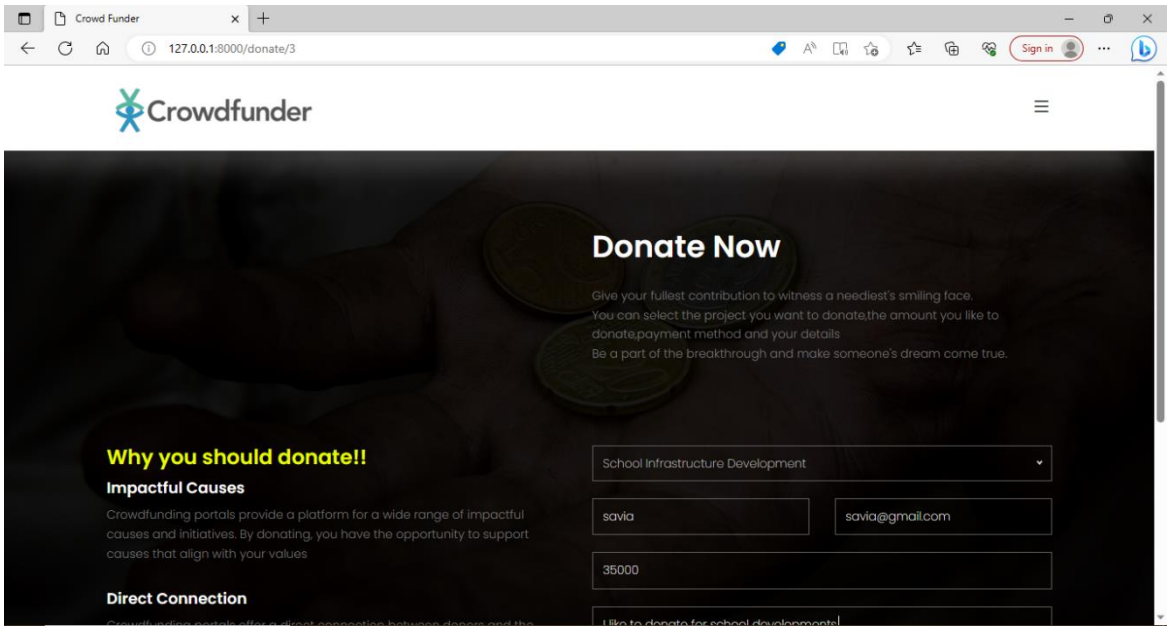

Show projects
127.0.0.1:8000/projectlist/
Sign in
Crowdfunding
Home
About
Category
My contributions
Contact
Search here.....
Search Here
Our Projects
Projects that you can donate to
School Infrastructure Development
Water and Sanitation
Art and Cultural Preservation

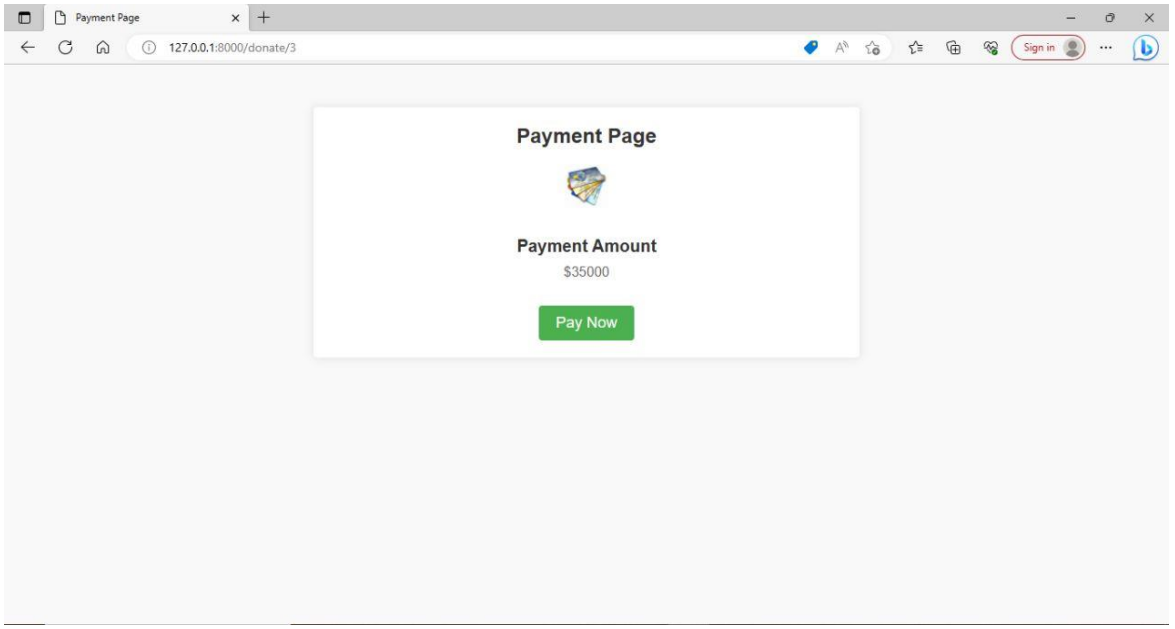

Show projects
127.0.0.1:8000/projectlist/
Sign in
Crowdfunding
Home
About
Category
My contributions
Contact
school
Search Here
Our Projects
Projects that you can donate to
Disaster Relief and Resilience
Supporting initiatives focused on
Art and Cultural preservation
Projects dedicated to preserving
Water and Sanitation
Projects aimed at improving access to clean water and

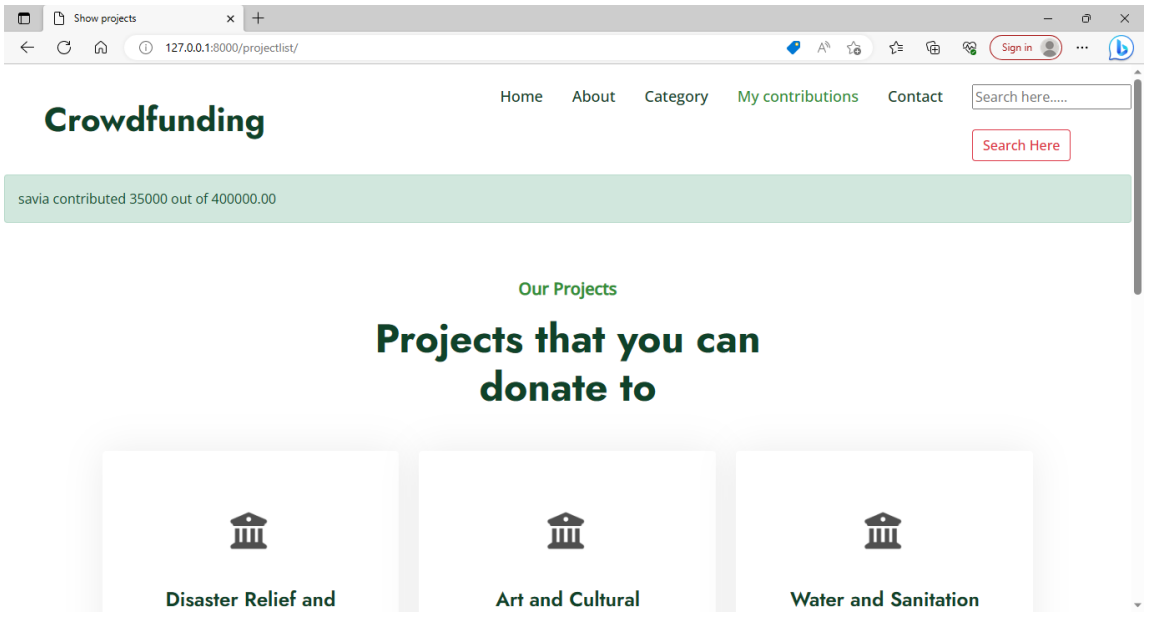

Searched results
127.0.0.1:8000/search/?csrfmiddlewaretoken=1KM1hu7OkLe2MRPI2N2q7AijyG6ljc8GH6PBlxyHMdFGlpZYYZ0KNvoKh...
Sign in
Crowdfunding
Home
About
Category
My contributions
Contact
Categories
Select a category to view projects
School Infrastructure Development
Crowdfund projects focused on building or renovating schools in underprivileged areas, providing a

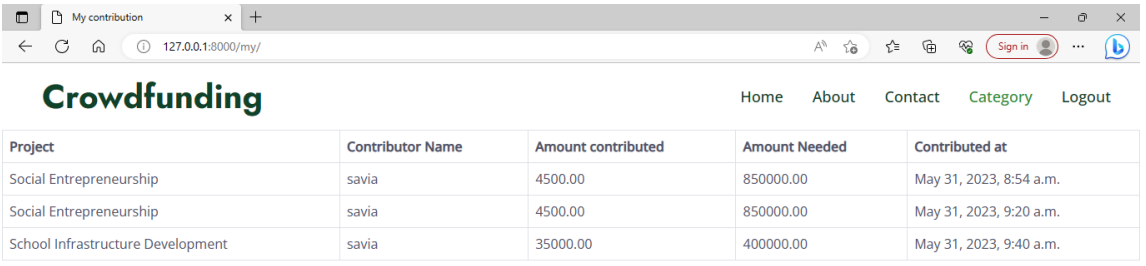

Show Category wise
127.0.0.1:8000/category
Sign in
Crowdfunding
Home
About
Contact
Category
Logout
Categories
Select a category to view projects
Education
Education for underprivileged children
View
127.0.0.1:8000/projectshow?id=3


Show projects
127.0.0.1:8000/projectshow/?id=3
Sign in
Crowdfunding
Home
About
Category
Contact
Categories
The projects in the category you selected are:
School Infrastructure Development
Crowdfund projects focused on


Crowd Funder
127.0.0.1:8000/donate/3
Sign in
Crowdfunder
Donate Now
Give your fullest contribution to witness a neediest's smiling face.
You can select the project you want to donate,the amount you like to donate,payment method and your details
Be a part of the breakthrough and make someone's dream come true.
Why you should donate!!
Impactful Causes
Crowdfunding portals provide a platform for a wide range of impactful causes and initiatives. By donating, you have the opportunity to support causes that align with your values
Direct Connection
School Infrastructure Development
savia
savia@gmail.com
35000


Payment Page
127.0.0.1:8000/donate/3
Sign in
Payment Page
Payment Amount
$35000
Pay Now





Project	Contributor Name	Amount contributed	Amount Needed	Contributed at
Social Entrepreneurship	savia	4500.00	850000.00	May 31, 2023, 8:54 a.m.
Social Entrepreneurship	savia	4500.00	850000.00	May 31, 2023, 9:20 a.m.
School Infrastructure Development	savia	35000.00	400000.00	May 31, 2023, 9:40 a.m.