

Payment Gateway Integration for Animal NGO

PROJECT SYNOPSIS
OF MINOR PROJECT

BACHELOR OF TECHNOLOGY
COMPUTER SCIENCE & ENGINEERING

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INTRODUCTION

The main objective of this document is to illustrate the requirements of the project “Payment Gateway Integration for Animal NGO” is a web application which provides a platform to people for donating money. It provides services to user to donate directly to NGO. Payment Gateway Integration for Animal NGO is founded by visionaries who felt the need to build a free of cost medical facility for the stray animals where the best, most advanced, ethical and highly skilled medical care is readily available. Main mission is to connect and empower animal protectors to achieve animal rights by advocacy, networking and capacity building to create a high-impact which will continually address ongoing animal issues.

This project is specially designed for the use of students:

- People can donate money, and categorise them.
- People can initiate their payment through any mode like UPI – googlepay, paytm, netbanking, card payments and scanning QR code.
- Students can interact or contact with many NGO's for donating.

TECHNOLOGY USED:

Programming languages:

- Frontend: HTML, CSS, Bootstrap, React Js
- Backend: Razorpay Api
- Client-side validation: JavaScript

RATIONALE

The fancy jackets that you wear are not worth the life of those innocent animals. Quit buying fur and leather, but a ban to it. The world is their home as well, save the unsafe. Live and the animals live by putting a stop to animal abuse. Love those innocent creatures; don't kill them to wear them. Wear fake fur and leather for the sake of the animals. Your fashion is not worth a life. When you are looking for a pet, why not adopt an animal that is waiting in a shelter for a home rather than purchasing them.

Scientists have found evidence – through indirect ways as it is not possible to observe another creature directly – in favour that mammals and birds do dream when they are sleeping.

Wildlife is the greatest gift that Mother Nature has given us. It is our responsibility to take respect and protect what we have been gifted. May species, one Earth, one opportunity, one future.

By caging the innocent, you are cruel. Start caging the cruelty, not the animals. Treat the speechless with kindness.

OBJECTIVES

1. To provide easy platform to donate directly to NGO.
2. To reduce the problems of payment by providing them features of payment gateway.

LITERATURE REVIEW

KARMA FOUNDATION is our main source of inspiration in this context. KARMA FOUNDATION is a web application build a free of cost medical facility for the stray animals where the best, most advanced, ethical and highly skilled medical care is readily available. Karma Foundation works towards helping such animals either in our OPD or by admitting them into our facility.

Karma foundation truly believes that the best way to reduce human- animal conflict & animal – animal conflict is birth control. We conduct ABC surgeries each day at our facility & keep the animal for Post Operative care until they are fit to be released back where they were picked up from.

Our OPD clinic is a fully functional facility which is equipped to handle critical emergencies. We offer free treatment for stray animals at our OPD clinic. Each day we attend to number of patients who are victims of cruelty, road accidents and who suffer from various illnesses. Our partner, Animal Care Clinic has been generous by extending their support towards our cause.

FEASIBILITY STUDY

A feasibility study is an analysis of how successfully a project can be completed, accounting for factors that affect it such as economic, technological and operational. Project managers use feasibility studies to determine potential positive and negative outcomes of a project before investing a considerable amount of time and money into it.

During the stage of our feasibility study, we had to undergo the following steps as described under:

- Identify the origin of data at different levels of the system.
- Identify the expectation of end user from the finished product/system.
- Analyse the drawback(s) of the existing system.

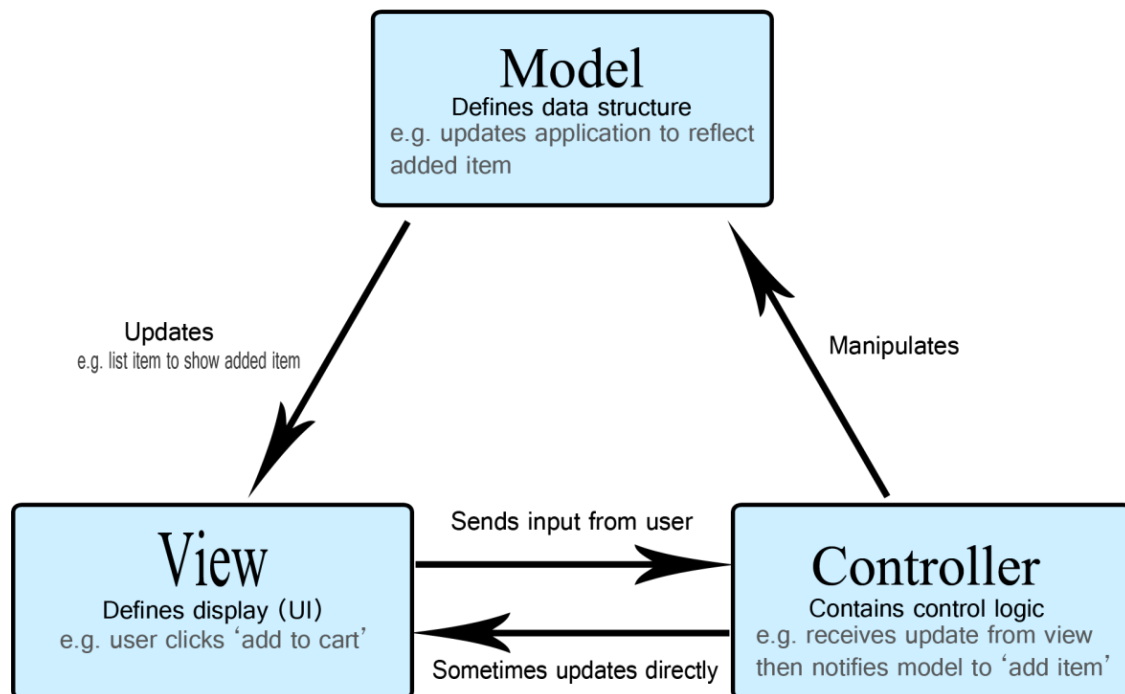
METHODOLOGY/PLANNING OF WORK

MVC (Model-View-Controller) is a pattern in software design commonly used to implement user interfaces, data, and controlling logic. It emphasizes a separation between the software's business logic and display. This "separation of concerns" provides for a better division of labor and improved maintenance. Some other design patterns are based on MVC, such as MVVM

(Model-View-Viewmodel), MVP (Model-View-Presenter), and MVW (Model-View-Whatever).

The three parts of the MVC software-design pattern can be described as follows:

- Model: Manages data and business logic.
- View: Handles layout and display.
- Controller: Routes commands to the model and view parts.



Front-end:

Front-end for this project is designed with HTML, CSS, Bootstrap, and React Js

Backend:

Backend is designed using Protected Routes, API request validation.

JavaScript is used for Client-side validation.

FACILITIES REQUIRED FOR PURPOSED WORK

- Performance of the system
- System to use secured database.

- System or cloud should be able to handle large amount of data
- There should be a database backup in case of any failure
- Proper user authentication required
- It should be easily accessible by users from anywhere at any time.
- Admin and user must remember login credentials, and should have a device with internet connection.

EXPECTED OUTCOMES

We expect our project to provide an easy platform to donate directly to NGO. Donors can donate easily using Google-Pay, PayTM, Credit Cards, Debit Cards, UPI, and Netbanking. We also expect to provide an easy and efficient environment for their smooth donation process.

REFERENCES

- <https://ieeexplore.ieee.org/document/8901656>
- <https://ieeexplore.ieee.org/document/9196382>
- <https://ieeexplore.ieee.org/document/6516321>
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