Report of Internship at Sansrujan Information Technology

An Internship Report for

CSA-652 - Industry Internship / Software Project Development

Credits: 16

Submitted in partial fulfilment of MCA Degree

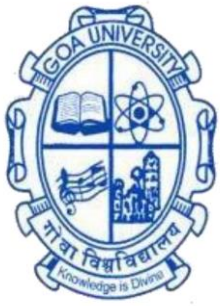
for Semester IV.

By

SHRIJAY NARAHARI GAONS
Seat Number: 2248
PRN: 201903501
ABC ID: 475567767821

Under the Mentorship of
Mr. Shounak Deshpande

The Discipline of Computer Science and Technology,
Goa Business School,
Goa University.



Goa University

Date: June 2024

Examined by: Seal of the School

DECLARATION BY STUDENT

I hereby declare that the data presented in this Internship report entitled, "Report of Internship at Sansrujan Information Technology" is based on the results of investigations carried out by me at Sansrujan Information Technology**,** under the mentorship of Mr. Shounak Deshpande and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities will not be responsible for the correctness of observations / experimental or other findings given the internship report/work. I hereby authorise the University authorities to upload this dissertation on the dissertation repository or anywhere else as the UGC regulations demand and make it available to any one as needed.

Signature and Name of Student

Seat no: 2248

Date:

Place: Goa University

COMPLETION CERTIFICATE

This is to certify that the Internship report is a bonafide work carried out by Shrijay Narahari Gaons under my mentorship in partial fulfilment of the requirements for the award of the degree of Master of Computer Application in the Discipline of Computer Science and Technology at the Goa Business School, Goa University.

Signature and Name of Mentor

Date:

Signature of Dean of School/HoD

School/Department Stamp

Date:

Place: Goa University

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OFFER LETTER

SANSRUJAN
UDYAM-GA-02-0002739

To,
Shrijay ~~Gauns~~, Gaons
Goa Business School
Goa University
Goa.

Date: 15-Jan-2024

Offer of Internship

Dear Shrijay, I hope this letter finds you well.
We take pleasure in inviting you to join the Sansrujan Information Technology as a intern at Hs. No 311/11(new) 677(old) Devlay Khandola Marcela Goa on following conditions:

1. **Designation & Location**
   Software developer at our office address mentioned above.
2. **Date of joining**:
   You are expected to join the office not later then 15th January 2024.
3. **Stipend**
   We do not have a policy to pay a stipend to intern as of now.
4. **Period**
   Your internship will be of six months starting from 15 Jan 2024 to 15 June 2024. ~~2.14~~
5. **Leaves**
   You are allowed to take 10 leaves in the given period which includes personal & sick leaves. Any leave required for the work at the education institution Eg. Viva, internship presentation may not be counted in the leaves. However, you are required to inform and take permission before taking a leave.
6. **Work Time & Ethics**
   - You will be governed by the timings and the hours of work applicable to the company wherein you are posted and you may be called upon work as required. Current work timings are 10:00 am to 06:00 PM from Monday to Friday.
   - If any time during your internship you are found guilty of misconduct or any willful breach or continuous negligence of terms of this appointment letter or rules or misconduct of duties and ethics then you will given notice and may end up in termination of your internship with this company.

We once again welcome you at Sansrujan Information Technology and look forward for your contribution in growing business and your industrial skills.

I have read and understood the offer letter and happy to join and be a part of the Sansrujan Information Technology .

Best wishes,

Sign of intern: _____

SANSRUJAN INFORMATION TECHNOLOGY

Date: 15 - Jan - 2024

Place: Marcela Goa

Shounak S Deshpande
Founder
PROPRIETOR Sansrujan Information Technology

INTERNSHIP CERTIFICATE

SANSRUJAN

TO WHOMSOVER IT MAY CONCERN

This is to certify that Mr. Shrijay N. Gaons, student of Masters of Computer Applications (MCA) of Goa University, Goa is currently undergoing his final semester – Industry Internship (Semester IV) at our company, Sansrujan Information Technology from 15th January till 15th June 2024.

During his tenure he has met the expectations of his team lead and found to be regular and sincere.

This certificate has been issued on his request to be submitted with the Internship report at Goa University.

Yours Sincerely,

SANSRUJAN INFORMATION TECHNOLOGY

(Mr. Shounak Deshpande)

Founder PROPRIETOR

SANSRUJAN INFORMATION TECHNOLOGY

Registered Office:

Hs no. 677 Devlay, Khandola, Marcel – Goa

https://sansrujan.in/

ACKNOWLEDGEMENT

First and foremost, I am sincerely grateful to Sansrujan Information Technology for providing me with the opportunity to undertake this valuable internship. I extend my deepest gratitude to Mr. Shounak Deshpande for his exceptional leadership and unwavering support throughout the duration of my internship. Working under his mentorship has been an immensely enriching experience, offering me not only practical skills but also profound professional insights. His dedication to fostering a collaborative and innovative environment has greatly contributed to my professional growth, shaping my understanding of the industry and helping me gain confidence.

I would also like to acknowledge the support and collaboration of my peers at Sansrujan Information Technology, whose teamwork and cooperation made this internship both productive and enjoyable.

I am also profoundly thankful to Goa Business School, Goa University, for granting me the opportunity to gain practical industry experience.

Special thanks are due to Mrs. Jyoti Pawar (Dean), Mr. Ramrao Wagh (Program Director, MCA), Mr. Hanumant Redkar (Assistant Professor, MCA), and the entire MCA faculty for their continuous support and encouragement.

I would also like to express my heartfelt appreciation to my internship guide from the university, Mr. Ramdas Karmali (Professor, MCA), for his invaluable guidance and support throughout this journey.

Additionally, I am deeply grateful to my parents and friends for their constant encouragement and understanding. Their unwavering support has been a pillar of strength throughout my academic and professional journey.

Thank you all for your support and encouragement.

Executive summary

During my internship at Sansrujan Information Technology, I had the opportunity to immerse myself in various aspects of web and mobile application development, focusing primarily on PHP Laravel and React Native. The organization, renowned for its innovative approach and commitment to delivering high-quality software solutions, provided a nurturing environment where I could apply my skills and grow professionally.

Tasks Handled:
Throughout my internship, I engaged in a wide array of tasks that spanned both backend and frontend development. Initially, I set up the development environment using XAMPP and Laravel, installed necessary libraries, and familiarized myself with the project flow and architecture. I then proceeded to debug existing code, add new features, and enhance user experience by integrating components like WYSIWYG text editors and AJAX for dynamic content updates.

As the project progressed, I focused on creating modules, implementing report functionalities, and enhancing data display features using SQL and JavaScript. I also worked on user interface improvements, such as icon updates, CSS enhancements, and responsive design implementations. During the latter part of the internship, I transitioned to mobile development using React Native, where I developed several features, including login functionalities, profile pages, and real-time data fetching with Firebase and Axios. In addition to these technical tasks, I attended Software Requirement Specification (SRS) meetings, where we collaborated with clients to understand and document the project's functional and non-functional requirements.

Learning Outcomes:
This internship significantly broadened my technical and professional skill set. I gained deep insights into Laravel and React Native development, mastering SQL syntax, AJAX, jQuery, and various debugging techniques. My understanding of JavaScript, CSS, and front-end development was enhanced through practical application and constant iteration.

Moreover, I learned about the intricacies of real-time communication using web sockets, integrated third-party APIs, and implemented robust security practices in Laravel. My exposure to tools like FileZilla for web hosting and Postman for API testing also enriched my knowledge base.

Challenges Faced:

One of the major challenges I faced was related to Git commits and auto-merging conflicts. With multiple developers working simultaneously on different features, merging code changes often led to conflicts that required meticulous resolution. Understanding the root cause of these conflicts and ensuring that the integrated code functioned correctly without breaking existing features was a demanding task. Additionally, maintaining consistency and avoiding redundant commits while collaborating on shared repositories was another hurdle that required disciplined version control practices.

CHAPTER 1: - COMPANY OVERVIEW

Name of the Company: Sansrujan Information Technology

Address: Marcel, Goa

Phone Number: +91 8262948825

Email: contact@sansrujan.in

Website: https://sansrujan.in/

1.1 Birds-eye-view

Introduction: Sansrujan Information Technology was founded in 2019 by Shounak Deshpande. The company focuses on making technology accessible to everyone. Located in Marcel, Goa, Sansrujan Information Technology serves clients worldwide, turning innovative ideas into excellent digital solutions.

Mission and Vision: Sansrujan Information Technology aims to turn "Imagination Into Reality" by offering a variety of services and solutions tailored to meet the unique needs of its clients. The company is committed to delivering high-quality, innovative technology solutions and has become a trusted partner for businesses in various industries.

1.2 Products/Services

Sansrujan Information Technology offers a comprehensive range of services, including;

- **Android Mobile App Development:** Creating user-friendly mobile applications for Android devices.
- **Web Application Development:** Building dynamic web applications that improve user engagement and business efficiency.
- **Website Building:** Designing and developing attractive and functional websites.
- **Graphic and Product Design:** Creating stunning graphics and innovative product designs.

- **UI/UX Design:** Ensuring seamless and engaging user interactions through user experience and interface design.
- **IT Support and Consultancy:** Offering expert IT support and consultancy services to enhance business operations.
- **Marketing Products and Services:** Developing effective marketing strategies to promote products and services.
- **Building Brands on LinkedIn:** Increasing brand presence and visibility on LinkedIn through targeted strategies.

1.3 Sections within the Organization

Team and Expertise: The team at Sansrujan Information Technology is made up of professionals who excel in their fields. Their expertise includes mobile app development, website creation, graphic design, and IT consultancy, ensuring every project is handled with precision and creativity.

Notable Achievements:

- **Client Success:** The company has worked with over 50 clients from various sectors, including retailers and multinational corporations. They have successfully completed projects such as inventory management systems, e-commerce platforms, logistics systems, portfolio websites, and content management systems (CMS).
- **Industry Recognition:** Founder Shounak Deshpande was appointed as a visiting faculty for the year 2023-24, highlighting his significant contributions to technology and education.

Under Shounak Deshpande's leadership, Sansrujan Information Technology has quickly grown to become a leader in innovative technology solutions. By turning imaginative ideas into reality, the company continues to make advanced technology accessible and beneficial to businesses and individuals worldwide.

Contact Information: For more information about Sansrujan Information Technology and its services, visit the company website at https://sansrujan.in/.

CHAPTER 2: - TASK'S HANDLED

❖ **Data Display**

Design View for presenting retrieved information of Vendor's Related data in a structured manner

My Responsibilities:

- Fetch and display data using SQL functions
- Create new module with routes, modals, views, and controllers

Tools and technologies used:

- VS Code
- Laravel
- HTML, CSS
- MySQL

❖ **Admin Content Moderation Feature**

Implemented a feature enabling admins to hide or reveal specific review text containing foul language from being displayed to end users, enhancing the platform's user-friendliness and content moderation capabilities.

My Responsibilities:

- Developed and implemented backend Functionality and a button within the admin interface
- Enhancing the platform's user-friendliness and content moderation capabilities

Tools and technologies used:

- VS Code
- Laravel
- HTML, CSS
- MySQL

❖ **Integration of Text Editor**

Integrated a WYSIWYG text editor to enhance user experience and enable various features

My Responsibilities:

- Implemented functionality allowing users to input formatted text effortlessly, including features such as bold, italic, bullet points, etc.

Tools and technologies used:

- VS Code
- SummerNote WYSIWUG

❖ **Icon updates**

Updated icons throughout the interface to improve visual aesthetics and ensure consistency.

My Responsibilities:

- Sourced new icons compatible with existing technology.
- Identified areas requiring icon updates based on design guidelines

Tools and technologies used:

- VS Code
- Font Awesome

❖ Inputting and Retrieving Cashback Scheme Data

The task involved providing inputs to the system regarding cashbacks and implementing a search functionality to retrieve specific cashback data from the database.

My Responsibilities:

- Designed user interfaces for inputting cashback data, ensuring ease of use.
- Implemented backend functionality to process and store the data to database.
- Developed search functionality, allowing users to retrieve specific cashback scheme data based on criteria such as date.

Tools and technologies used:

- VS Code
- jQuery
- JavaScript

❖ Database Table and Column Addition

Added a new table and necessary columns to the database to support data requirements.

My Responsibilities:

- Designed and created a new database table.
- Added essential columns to the table for storing relevant data.

Tools and technologies used:

- VS Code
- Laravel
- MySQL

❖ Admin Dashboard Development

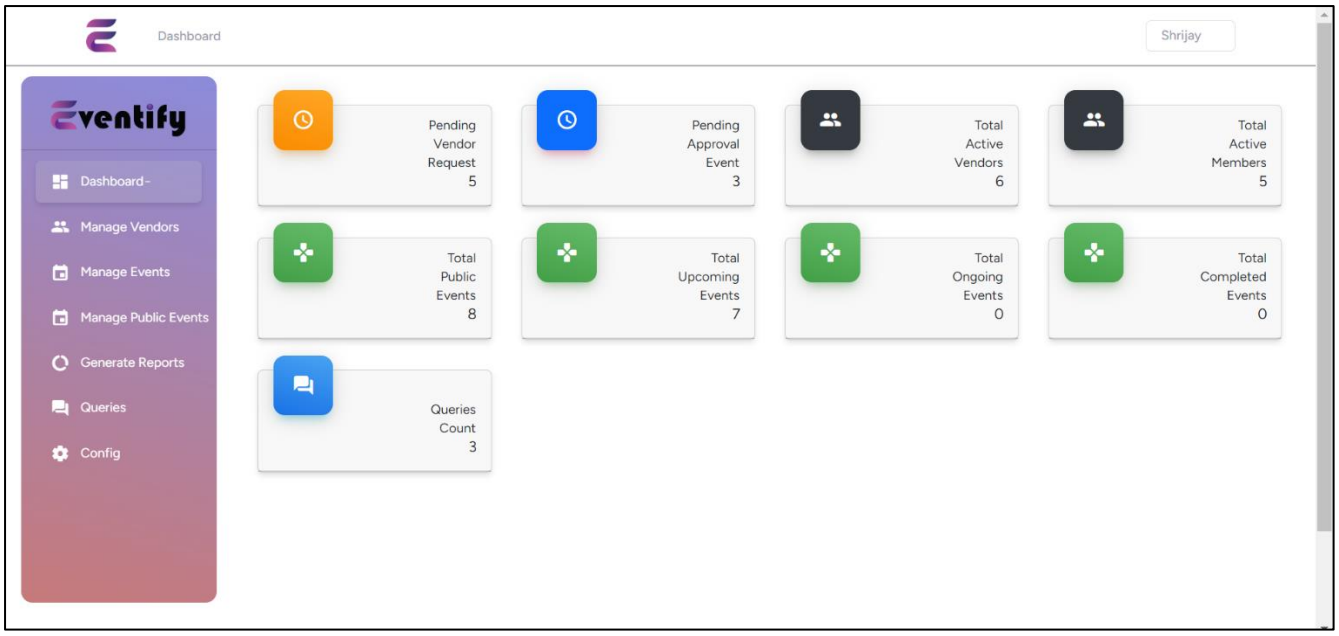
Developed a centralized interface for administrators to manage and monitor system activities efficiently.

My Responsibilities:

- Implemented the admin dashboard interface as designed by the UI designer.
- Integrated backend functionalities to fetch and display data.
- Made the dashboard responsive for optimal use on various devices.

Tools and technologies used:

- VS Code
- Html, CSS
- Laravel
- MySQL



❖ Admin Management Component

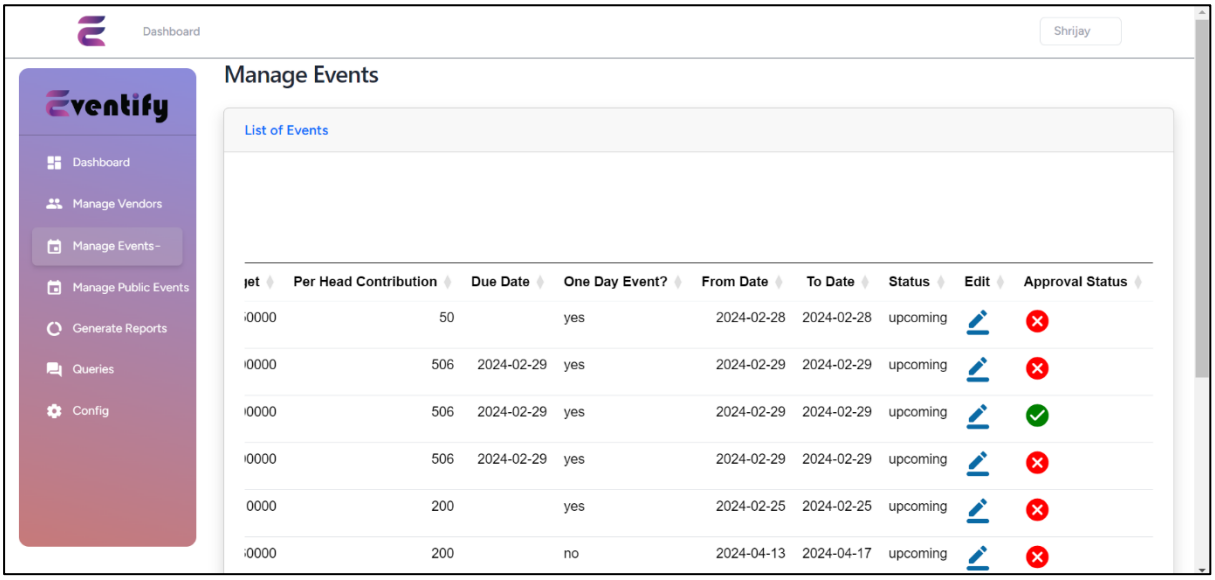
Developed a comprehensive component for managing entities, including displaying, editing details, and approving or disapproving those entities when needed.

My Responsibilities:

- Implemented validation checks and added features to edit, approve, and disapprove entities.
- Implemented logic for approving and disapproving entities
- Made the dashboard responsive for optimal use on various devices.

Tools and technologies used:

- VS Code
- Html, CSS
- Laravel
- MySQL



❖ **Toast notifications**

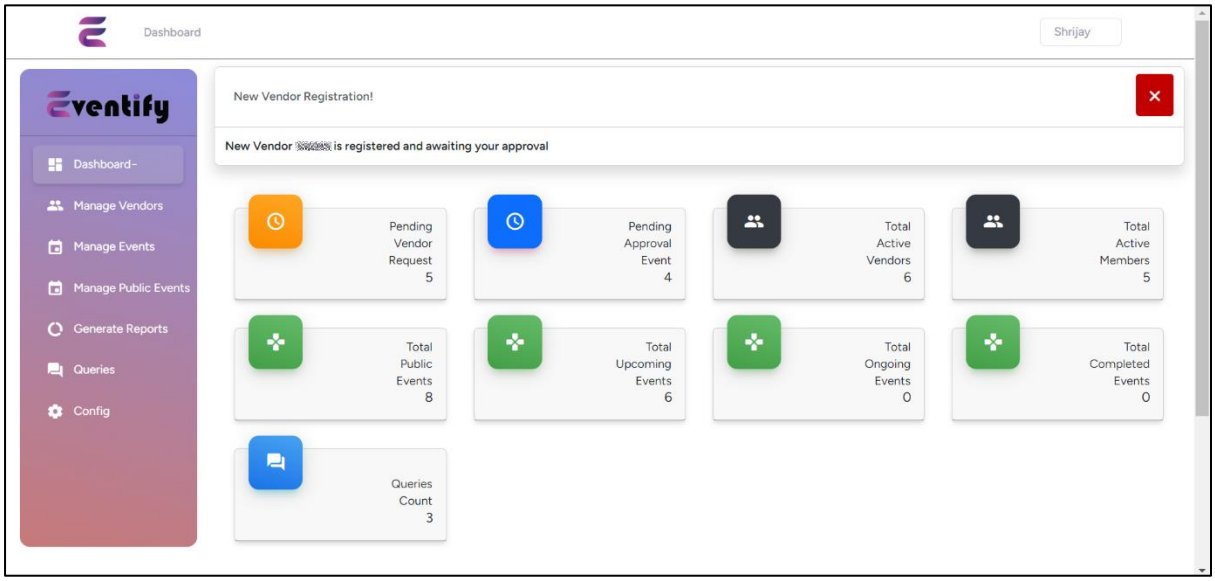
Implemented functionality to manage notifications and dismissal of notifications.

My Responsibilities:

- Styled toast notifications to align with the overall UI design.
- Developed backend functionality for dismissal of notifications and store the same in database.
- Conducted tests to verify functionality across different scenarios.

Tools and technologies used:

- VS Code
- Html, CSS
- JavaScript
- Laravel
- MySQL



❖ Modal Implementation

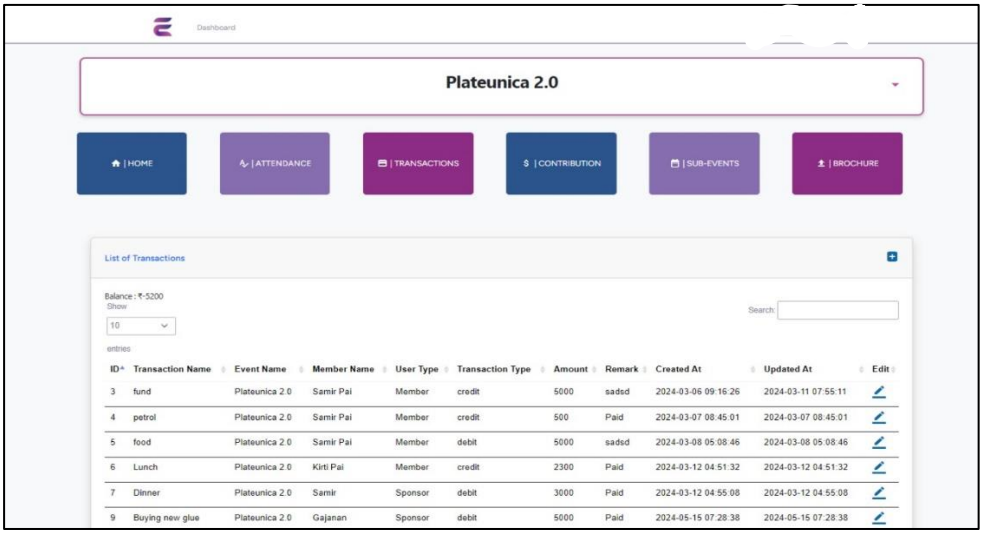
Implemented a modal to display data with a form to save data.

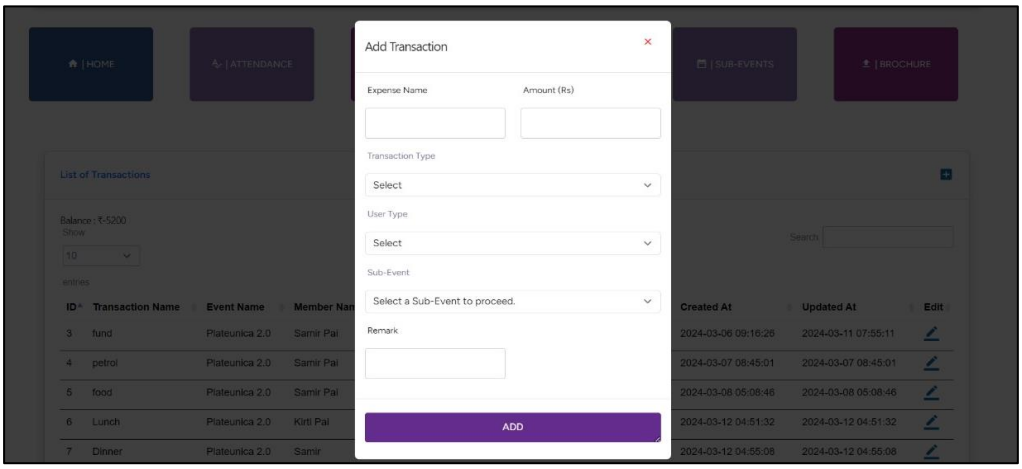
My Responsibilities:

- Added backend functionality to handle and save data from the modal.
- Ensured modals were responsive and aligned with the overall UI design.

Tools and technologies used:

- VS Code
- Html, CSS
- Laravel
- MySQL





❖ **Data Export**

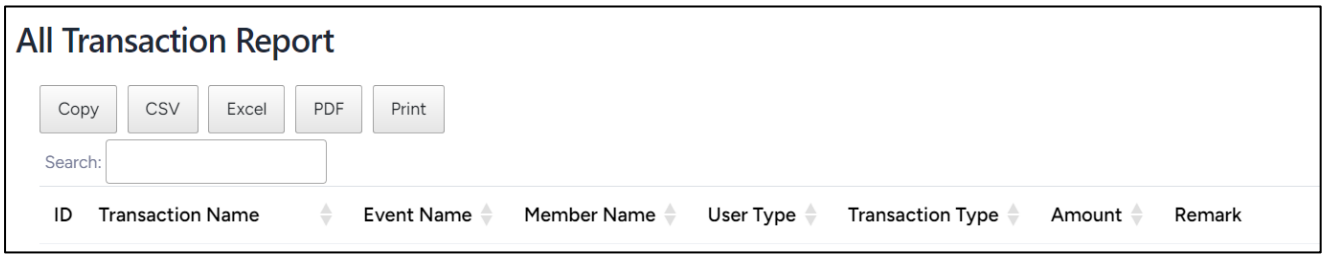
Implemented functionality to export data into Excel, CSV, and PDF formats, along with buttons to print and copy data

My Responsibilities:

- Implemented export functionality for data tables to Excel, CSV, and PDF formats.
- Added buttons to print and copy data directly from the tables.

Tools and technologies used:

- VS Code
- Datatables
- Html, CSS
- Laravel
- MySQL



❖ **Splash Screens**

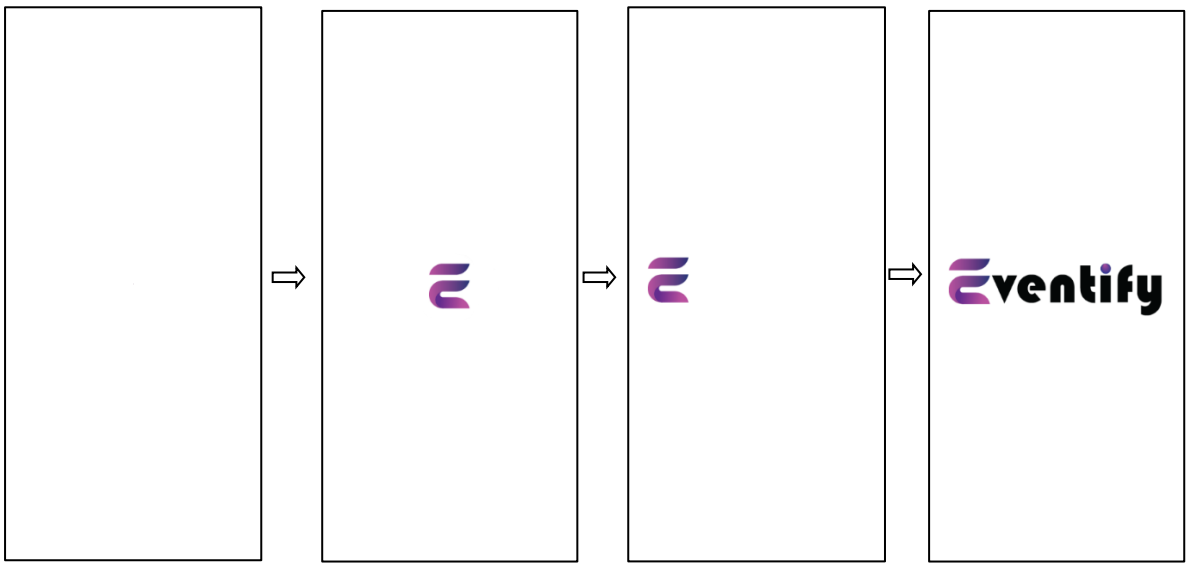
Implemented splash screens for the React Native application.

My Responsibilities:

- Implemented the splash screens as designed by the UI Designer.
- Ensured compatibility and responsiveness across different devices.

Tools and technologies used:

- VS Code
- React Native



❖ **Integration of Firebase Service for User Signup**

Integrated Firebase service to enable secure user signup process

My Responsibilities:

- Configured Firebase Authentication to manage user registration.
- Ensured secure handling and storage of user data within Firebase.
- Implemented form validation for the signup form.

Tools and technologies used:

- VS Code
- React Native
- Firebase

❖ **Integrating Loader and Async Storage for Login Functionality**

Integrated Loader and Async Storage for seamless user experience and data persistence.

My Responsibilities:

- Implemented a loader component to provide visual feedback during the login process
- Implemented Async Storage to securely store authentication details of user locally on the device for future sessions.

Tools and technologies used:

- VS Code
- Npm
- React Native

❖ Frontend UI Development for React Native Application

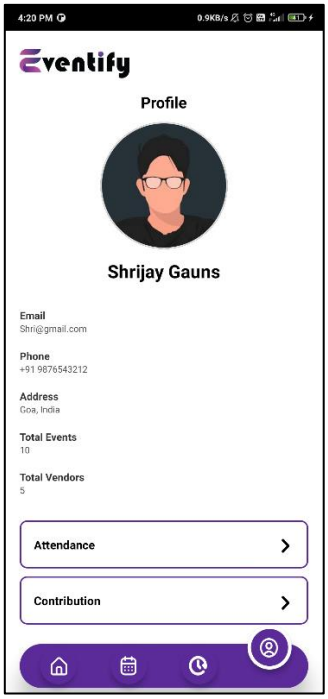
Developed the frontend UI for the React Native application based on the designs provided by the UI designer

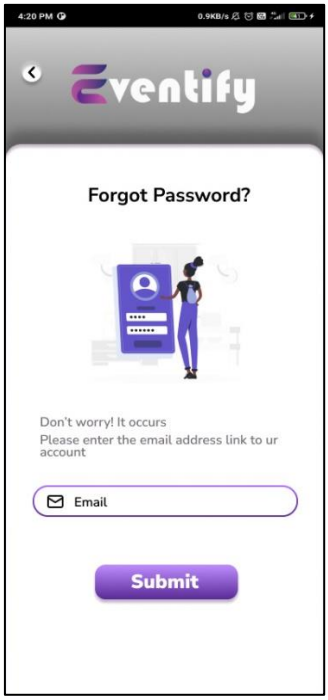
My Responsibilities:

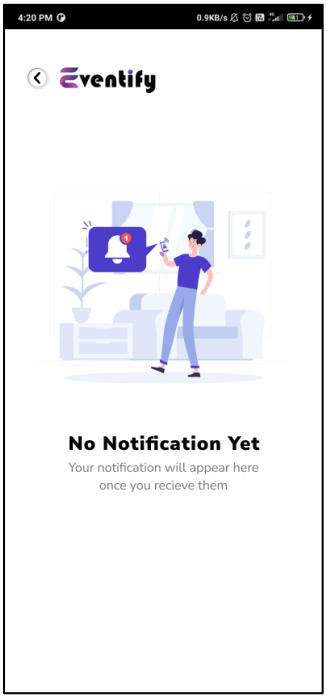
- Implemented responsive layouts and navigation flows as per design specifications
- Ensured consistency across all screens and components.
- Optimized UI performance for various device resolutions and screen sizes.

Tools and technologies used:

- VS Code
- Html, CSS
- Npm
- React Native







Knowledge Sharing and Integration

Learned and applied API testing using Postman and Cypress from a knowledge sharing session, as well as insights on hosting. I used this knowledge to develop and test new features, ensuring robust and reliable functionality in our application, and improved its deployment process. This hands-on experience helped enhance the quality and performance of the application. The tasks completed with this knowledge are as follows: -

- **Software Testing Using Cypress**

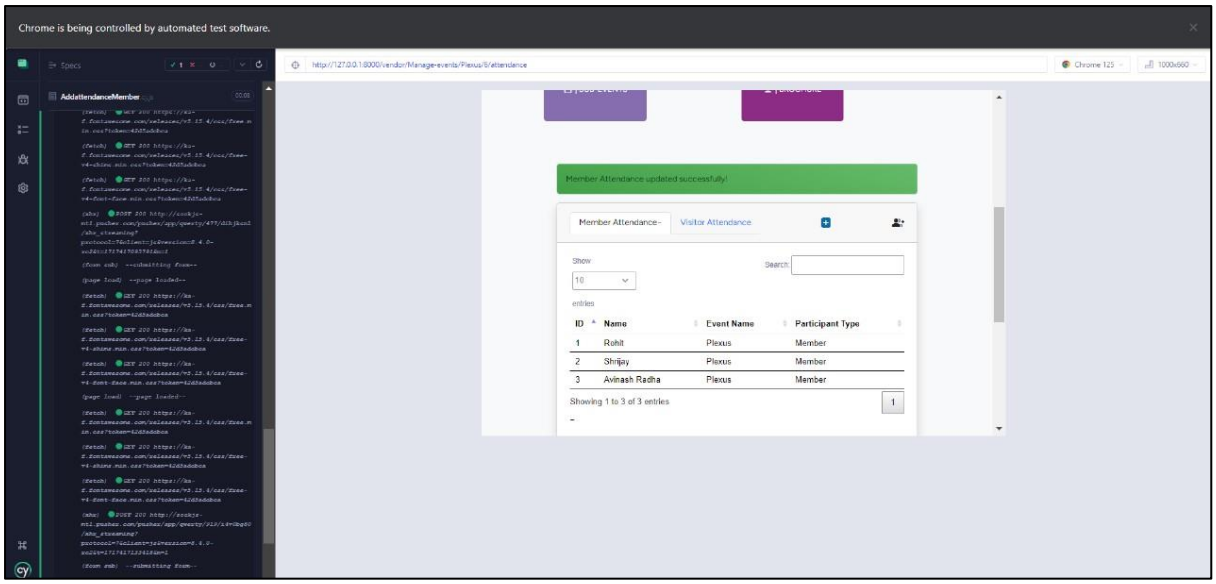
  Conducted smoke tests using Cypress.io to ensure the stability and functionality of critical paths.

  My Responsibilities:

  - Developed and smoke tests.
  - Validated critical user flows and functionalities and reported issues encountered during testing.

  Tools and technologies used:

  - VS Code
  - Cypress



❖ API Testing with Postman for Member Registration

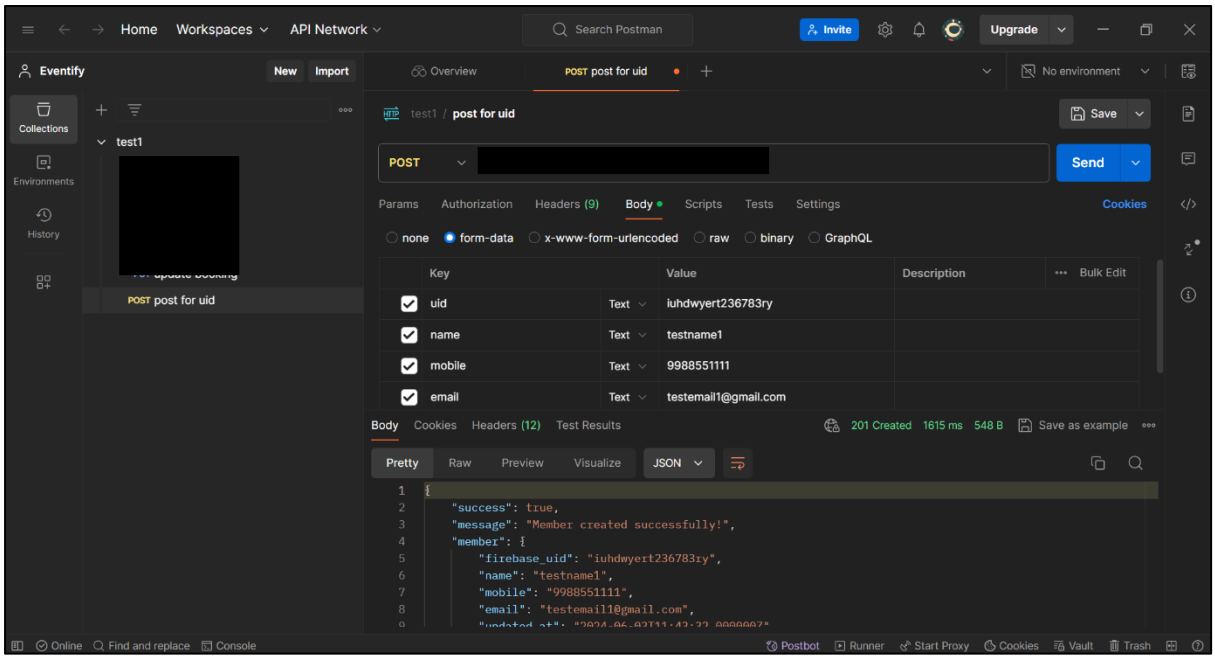
Tested API endpoints using Postman to ensure successful storage of newly registered members in the database.

My Responsibilities:

- Developed API endpoint to handle the storage of newly registered members in the database.
- Sending POST requests to the API endpoint responsible for member registration.

Tools and technologies used:

- VS Code
- Postman
- React Native



❖ Hosting and Deployment Using FileZilla and cPanel

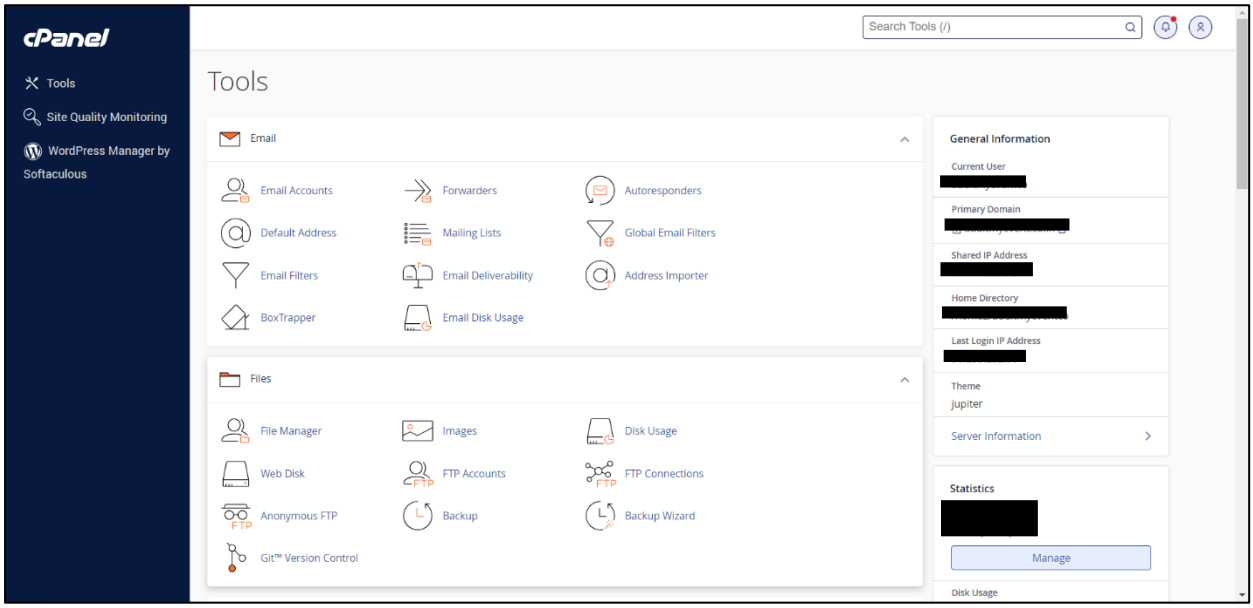
Learned and applied hosting and deployment techniques using FileZilla and cPanel to ensure the application is accessible and functional in a live environment.

My Responsibilities:

- Deployed the application using FileZilla for secure file transfers.
- Configured and managed the hosting environment using cPanel.

Tools and technologies used:

- VS Code
- FileZilla
- cPanel



Laravel Security Practices Implemented in the Project

❖ **Disabling debug messages in production**

When deploying an application to production, it's important to disable debug messages and enable production settings to ensure security, performance, and a smooth user experience. This is typically done by setting environment variables.

Example: -

APP_ENV=production
APP_DEBUG=false

Benefits:

- Security: Protects against exposing sensitive information.
- Performance: Reduces resource consumption by disabling debug features.
- User Experience: Shows user-friendly error pages instead of raw error details.

❖ **Protecting Forms from Cross-Site Request Forgery (CSRF)**

To protect our forms from CSRF attacks, we used the @csrf Blade directive in our Laravel application. This directive added a CSRF token to our forms, which Laravel validated with each request to ensure it originated from our application.

Example: -

```
<form method="POST" action="{{ route('register') }}">
   @csrf

   <p>
      <label for="name">First Name</label>
      <input type="text" id="name" name="name" value="{{ old('name') }}" required
/>
   </p>

   <!-- Add other form fields here -->

</form>
```

@csrf: This Blade directive inserted a hidden CSRF token field into our form. Laravel used this token to verify that the request came from our application and not from a malicious third party.

Benefits: -

- Security: Prevented attackers from making unauthorized requests on behalf of authenticated users.
- Ease of Use: Laravel automatically validated the CSRF token on form submissions.

❖ **Validating User Input**

Validation in Laravel was crucial to ensure our application's security and integrity. By validating user input, we sanitized the data users sent, which was essential since user input should never be trusted.

Example: -

```
use Illuminate\Support\Facades\Validator;

   public function store(Request $request)
   {
      $validated = $request->validate([
         'user_id' => 'required|exists:users,id',
         'title' => 'required|string|min:3|max:255',
         'content' => 'required|string|min:3',
         'published' => 'sometimes|boolean'
      ]);

if ($validator->fails()) {
return Redirect::back();
}
```

Benefits: -

- Security: Prevented malicious data from entering the system by validating inputs against specific rules.
- Data Integrity: Ensured that the data stored in the database met the required criteria, reducing the risk of errors and inconsistencies.
- By using Laravel's built-in validation rules, we efficiently and effectively validated user input, enhancing the overall security and reliability of our application.

❖ **Handling Uploaded Files**

As with any user input, files uploaded by users must never be trusted. Here are a few recommendations we followed to ensure secure handling of file uploads in our Laravel application

Example :-

```
$validated = $request->validate([ 'file' => 'required|mimes:gif,jpeg,png,webp', ]);
```

Benefits :-

- Security: Checked the MIME type to prevent users from uploading potentially harmful files.
- Data Integrity: Ensured that only files of the specified types were accepted, maintaining consistency and preventing errors

CHAPTER 3 : LEARNINGS

Visual Studio Code: A free, open-source code editor by Microsoft that supports many programming languages and features like debugging, syntax highlighting, and Git integration through extensions.

Android Studio: The official integrated development environment (IDE) for Android app development, providing tools for code editing, debugging, testing, and a rich set of emulators for different Android devices.

GitHub: A web-based platform for version control and collaborative software development using Git. It provides a repository hosting service, enabling developers to manage their code, track changes, and collaborate with others through features like pull requests, issues, and project boards

HTML: The standard markup language for creating web pages, using elements and tags to define the structure and content, such as headings, paragraphs, links, and images.

CSS: A stylesheet language used for describing the presentation of a document written in HTML or XML, enabling the design and layout of web pages with properties like colors, fonts, and spacing.

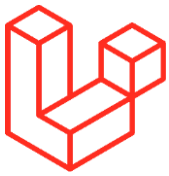
JavaScript: A high-level, dynamic programming language primarily used to create interactive effects within web browsers, powering web functionalities like form validation, animations, and event handling.

JQuery: A fast, small, and feature-rich JavaScript library that simplifies HTML document traversal and manipulation, event handling, and animation, providing an easy-to-use API compatible with multiple browsers.

XAMPP: A free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting of Apache HTTP Server, MySQL database, and interpreters for scripts written in PHP and Perl. It simplifies the setup of a local development environment.

phpMyAdmin: It provides a user-friendly web interface for managing MySQL databases, allowing for easy database administration tasks without needing SQL knowledge.

PHP: A server-side scripting language designed for web development but also used as a general-purpose programming language, embedded in HTML to create dynamic web page content and interact with databases.



Laravel: A PHP web application framework with an expressive, elegant syntax, providing a robust set of tools and resources for building modern web applications, including routing, authentication, and database management.

React Native: An open-source framework created by Facebook for bilding mobile applications using JavaScript and React. It allows developers to write native mobile apps for iOS and Android with a single codebase, sharing logic and components across platforms.

npm: The Node Package Manager, a package manager for JavaScript, included with Node.js. It allows developers to install, share, and manage dependencies and packages needed for JavaScript development, simplifying project setup and management.

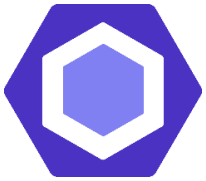
Node.js: An open-source, cross-platform JavaScript runtime environment that executes JavaScript code outside a web browser. It is used for building scalable network applications, offering event-driven, non-blocking I/O operations.

Microsoft Teams: A collaboration platform within Microsoft 365, providing workspace chat, video conferencing, file storage, and application integration, designed to facilitate teamwork and communication within organizations.

Firebase: A comprehensive platform developed by Google for creating mobile and web applications. It offers a suite of tools and services such as real-time databases, authentication, cloud storage, analytics, and hosting, enabling developers to build and scale apps quickly without managing the backend infrastructure.

Knowledge sharing session:

FileZilla: An open-source FTP client for file transfer between a local computer and a server on the Internet, supporting FTP, SFTP, and FTPS protocols with features like drag-and-drop, site manager, and file editing.



ESLint: ESLint is a powerful static code analysis tool primarily used with JavaScript (ECMAScript) codebases. It helps developers maintain code quality and enforce coding standards by identifying patterns and potential issues in the code.

Cypress: An end-to-end testing framework for web applications, designed to provide a fast, reliable, and easy-to-use tool for writing, running, and debugging tests, with features like automatic waiting and real-time reloads.

Postman: A collaborative API development tool that simplifies the process of developing, testing, and debugging RESTful APIs through an intuitive graphical interface, allowing users to make HTTP requests and view responses.

cPanel: It is a web-based control panel and makes it easy to manage server resources, set up domains, and handle website files and databases.

Redis: Redis is a fast, in-memory database used for caching, real-time data, and messaging. It speeds up data access and improves performance in applications.

Katalon: A versatile test automation tool that supports web, API, mobile, and desktop applications, offering an integrated environment for creating and executing automated tests with a user-friendly interface.

Figma: Figma is a cloud-based design tool for creating user interfaces and prototypes. It supports real-time collaboration, vector graphics, and integrates well with other tools, making it ideal for web and app design.

Kafka: Kafka is a distributed streaming platform used to build real-time data pipelines and applications. It handles large volumes of data, providing high throughput, fault tolerance, and scalability.

CHAPTER 4: CHALLENGES

4. 1 Git Commits and Auto-Merging Conflicts

During my internship, I faced several significant challenges that tested my technical skills and problem-solving abilities. These challenges, related to version control, understanding the Laravel framework, and managing time effectively, provided valuable learning experiences.

One major challenge was dealing with Git commits and auto-merging conflicts. Working in a team with multiple developers contributing to the same codebase often led to conflicts during the merge process. These conflicts typically arose when different developers made changes to the same file or lines of code. Resolving them required meticulous attention to detail to ensure the integrated code functioned correctly without breaking existing features. Analyzing changes and deciding which to keep or modify was time-consuming and required a deep understanding of the project and its dependencies.

4. 2 Learning the Laravel Framework: Routes, Controllers, and Views

Another significant challenge was mastering the Laravel framework, particularly understanding its routes, controllers, and views. Laravel is a powerful PHP framework that follows the MVC (Model-View-Controller) architectural pattern, which provides a structured way to build web applications. However, for someone new to the framework, the learning curve can be steep. Understanding how Laravel handles routing was one of the first hurdles. Routes in Laravel define how the application responds to user requests. Learning to define and manage routes correctly to ensure that they directed to the appropriate controllers required careful study of the documentation and hands-on practice.

Controllers in Laravel are responsible for handling the business logic of the application. Writing controllers that adhered to best practices, such as keeping them clean and maintainable, while ensuring they interacted correctly with the models and views, was challenging. It involved understanding Laravel's conventions and utilizing its features effectively. Additionally, ensuring that the views were correctly linked to the controllers and reflected the application's state accurately was a complex task.

REFERENCES

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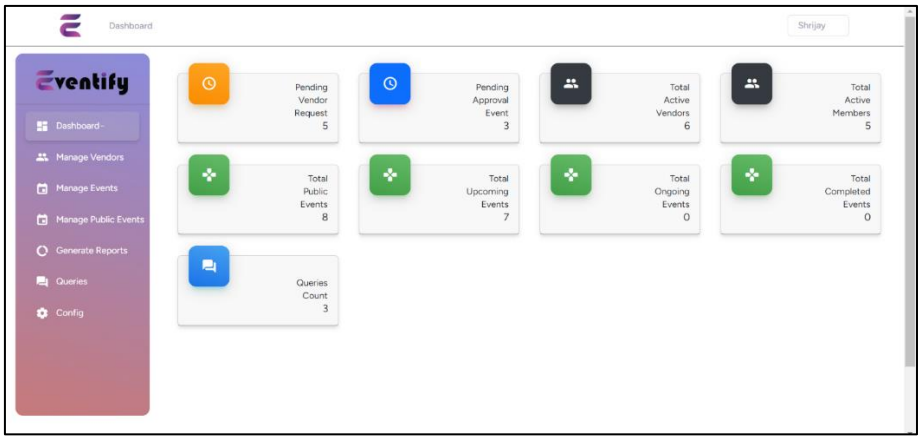
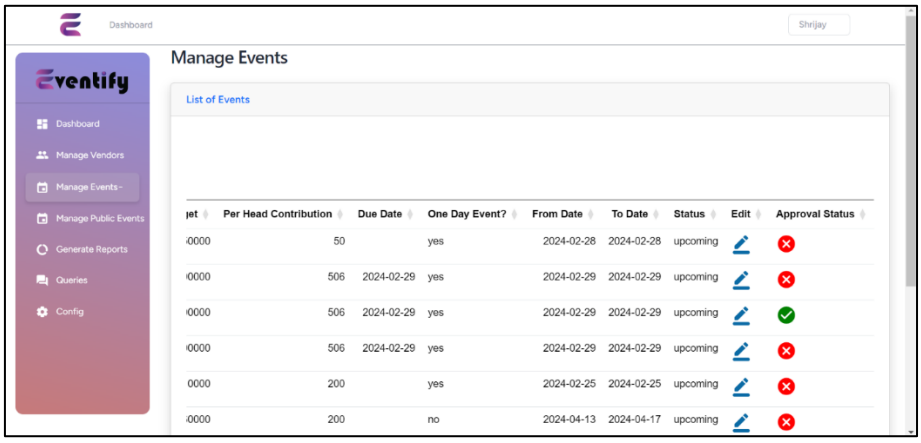
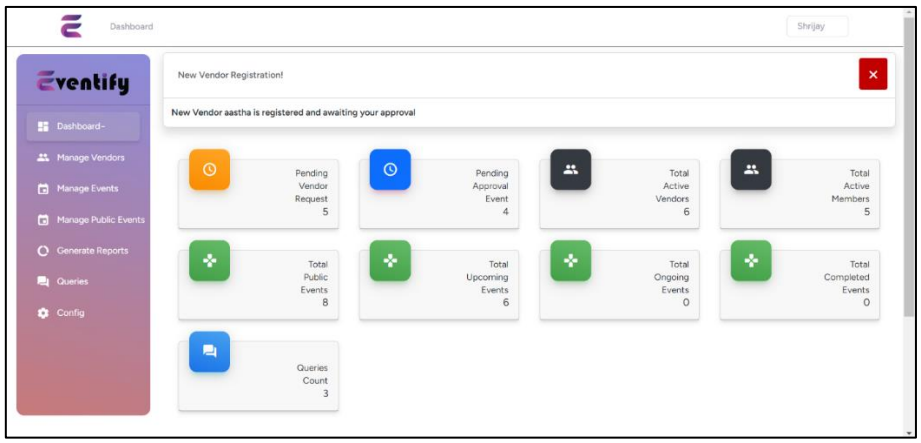
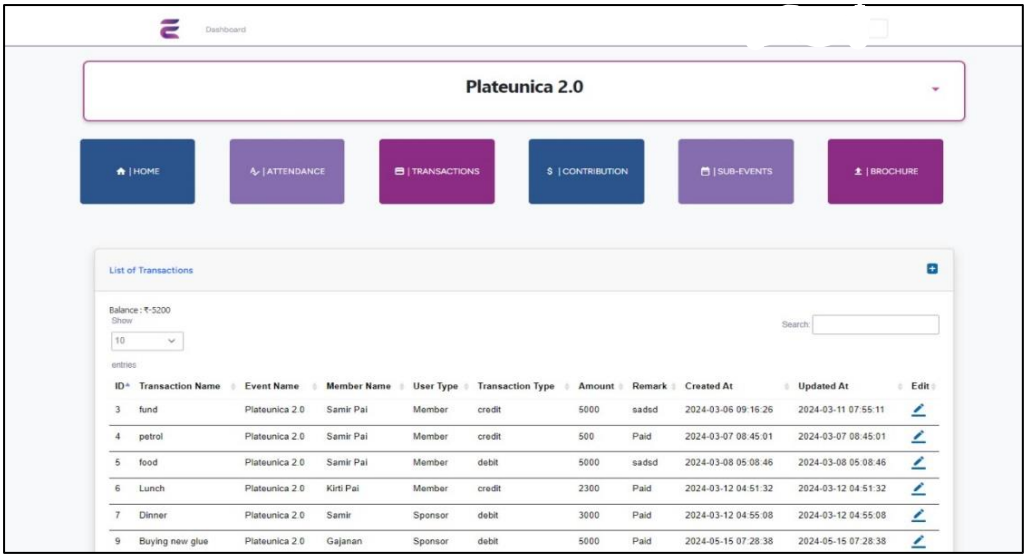
- https://firebase.google.com/
- https://www.google.com/
- https://www.youtube.com/
- https://stackoverflow.com/

APPENDIX I: SAMPLES OF THE WORK DONE





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Plateunica 2.0
| HOME
| ATTENDANCE
| TRANSACTIONS
| CONTRIBUTION
| SUB-EVENTS
| BROCHURE
List of Transactions
Balance : ₹-5200
Show
10
entries
Search:
ID Transaction Name Event Name Member Name User Type Transaction Type Amount Remark Created At Updated At Edit
3 fund Plateunica 2.0 Samir Pai Member credit 5000 sadsd 2024-03-06 09:16:26 2024-03-11 07:55:11
4 petrol Plateunica 2.0 Samir Pai Member credit 500 Paid 2024-03-07 08:45:01 2024-03-07 08:45:01
5 food Plateunica 2.0 Samir Pai Member debit 5000 sadsd 2024-03-08 05:08:46 2024-03-08 05:08:46
6 Lunch Plateunica 2.0 Kirti Pai Member credit 2300 Paid 2024-03-12 04:51:32 2024-03-12 04:51:32
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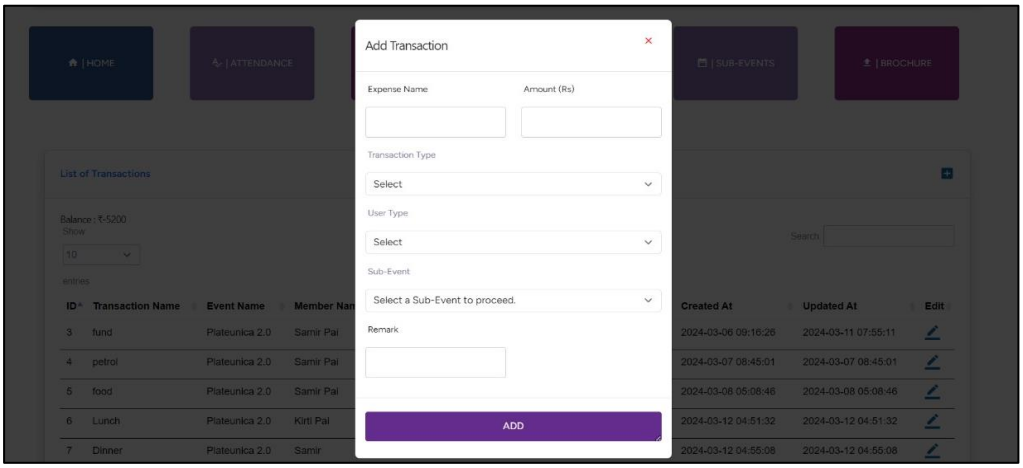
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Transaction Type
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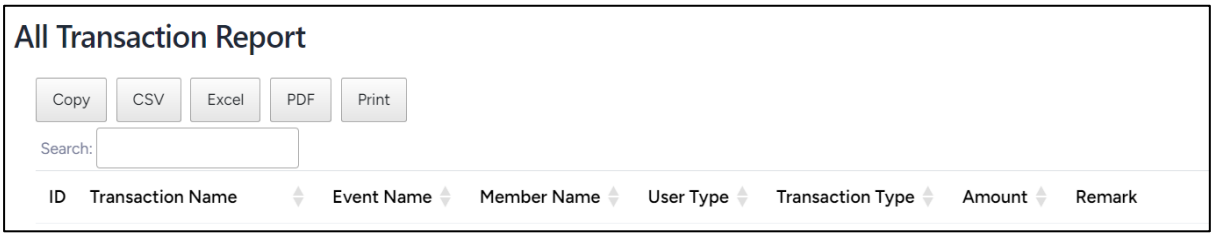
User Type
Select
Sub-Event
Select a Sub-Event to proceed.
Remark
ADD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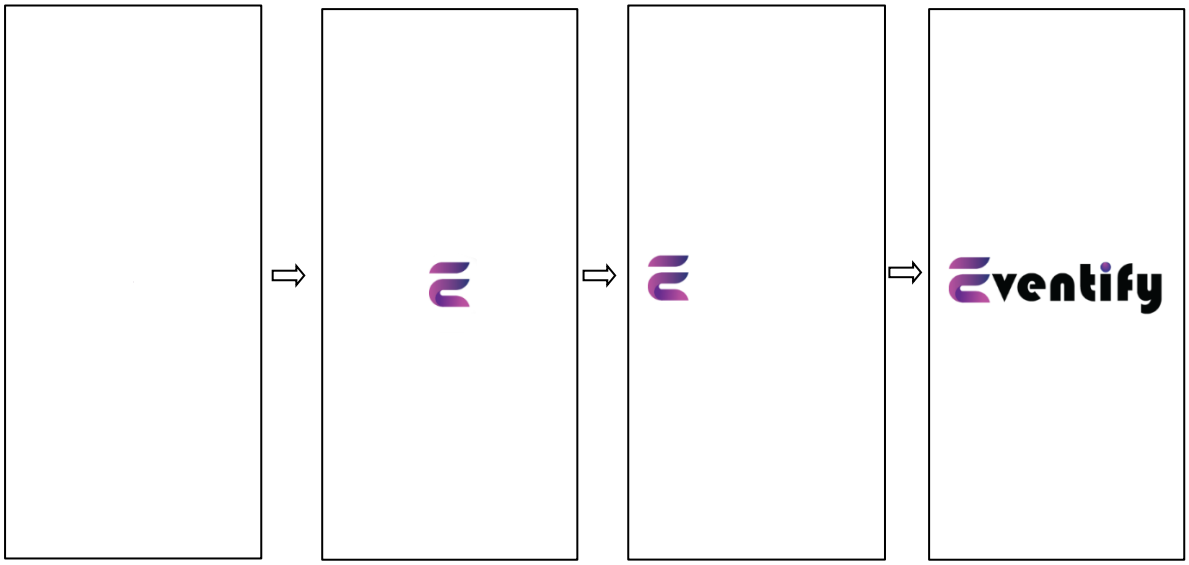
ID Transaction Name Event Name Member Name User Type Transaction Type Amount Remark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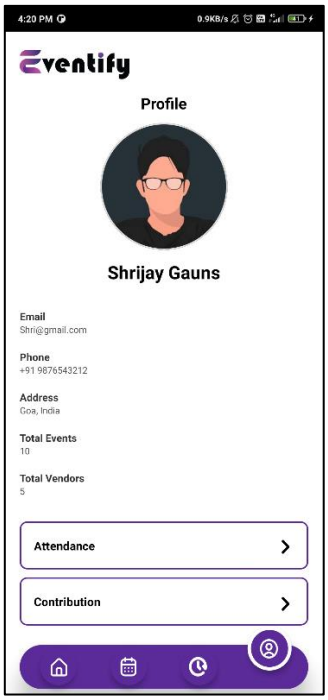
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Eventify
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Phone
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Total Vendors
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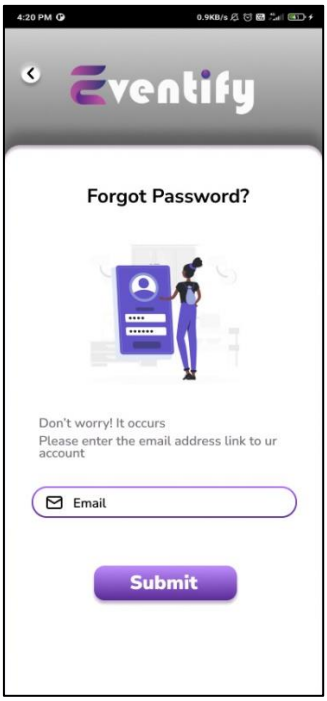
Attendance
Contribution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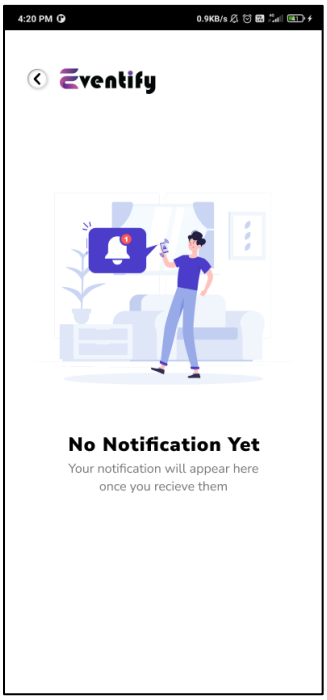
Eventify
Forgot Password?
Don't worry! It occurs
Please enter the email address link to ur account
Email
Submit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Eventify
No Notification Yet
Your notification will appear here once you recieve them

APPENDIX II: PHOTOS WHILE YOU ARE AT WORK