Student Expense Tracker

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BONAFIDE CERTIFICATE

Certified that this project report **"Expanses Tracker Website"** is the bonafide work of "***Anmol Bhardwaj UID: 20BCS6061, Ishu Sharma UID: 20BCS6054, Nityanand UID: 20BCS1993***" who carried out the project work under my/our supervision.

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Abstract

The Student Expense Tracker website is a web application designed to help students manage their finances more effectively. The website offers a range of features including tracking expenses, managing a budget and setting financial goals. Users can easily enter their expenses and income, track their expenses and view their financial status in real time. The site also provides users with personalized suggestions for saving money and improving their financial habits. Overall, this project aims to provide students with a simple but effective tool to manage their expenses and achieve financial stability.

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Chapter 1: Introduction

Student Expense Tracker is a tool designed to help students effectively manage their finances by tracking their expenses and creating a budget plan. Using this website, students can easily record their daily expenses, categorize them and analyze their spending patterns to make informed financial decisions. The website aims to provide a user-friendly interface and customizable features to enable students to stay on top of their finances and achieve their financial goals.

1.2 Identification of Client/ Need/ Relevant Contemporary issue

Any college or university student who wants to have an overview of their expenses and manage their finances more effectively can be a client of the website for monitoring the expenses of students of the project. The need for such a website stems from the fact that college students often face financial problems and may have difficulty tracking their expenses, leading to financial stress and difficulty managing their budgets. A relevant current issue that the website could address is the rising cost of education and the increasing burden of student debt, making it essential for students to manage their finances effectively to avoid financial hardship.

1.3 Identification of Problem

The main problem that the Student Expense Tracking Project website is trying to solve is the lack of a reliable and effective tool for college students to track their expenses and manage their finances. Many students struggle with budgeting and tracking their expenses, which leads to financial stress and difficulty managing their expenses. In addition, the rising cost of education and the increasing burden of student debt exacerbate these challenges, which is why it is critical for students to have access to tools that can help them manage their finances more effectively. The Student Expense Tracker website aims to solve this problem by providing a user-friendly and comprehensive platform that allows students to track their expenses, set budgets and manage their finances more effectively.

1.4 Identification of Task

The objective of the project "Student Expenditure Tracking Website" would be to create a web-based platform that enables students to effectively track and manage their daily expenses. The website would require a user-friendly interface that allows students to add, edit, and delete expenses, categorize them into different categories, and generate reports to analyze their spending habits. The website would also need to have features for setting budgets, sending reminders and receiving alerts. The goal of the project would be to create a comprehensive platform that would help students monitor their finances and make informed decisions about their spending.

1.5 Timeline

A student expense tracking project can typically take several weeks to several months to complete, depending on the scope and complexity of the project. The timeline can be divided into several phases, including planning, design, development, testing, and deployment. The planning phase includes defining project requirements, identifying stakeholders, and creating a project plan. The design phase includes creation of wireframes, user interface design and database schema. The development phase includes coding, integration and testing of website features. The testing phase includes debugging, performance testing, and user acceptance testing. Finally, the deployment phase includes launching the site, configuring the servers, and providing ongoing maintenance and support.

Orgenization of the Report

Chapter 2: Litrature Review / Background Study: In this chapter we explain various aspects related to personal financial management, budgeting, and technology. We also includes studies on student financial behaviours and attitudes, the effectiveness of budgeting tools and techniques, and the role of technology in promoting financial literacy and responsibility among young adults.

Chapter 3: Design flow Process: The process of designing a website for tracking we added several steps. First, project requirements would be identified and defined, including target audience, functionality and design goals. A design plan would then be created, including wireframes, user flows and visual mockups. Once the design plan is approved, the development process would begin.

Chapter 4: Result Analysis and Validation: In the section we will discuss results for a student's expense tracking website project, we will typically discuss the results of the project, including its effectiveness in meeting its goals and addressing user requests. We will also analyze the data collected during the project and verify the accuracy and reliability of the results. In addition, we can discuss any issues encountered during the project and how they were resolved, as well as any opportunities for future improvements or improvements to the site.

Chapter 5: Conclusion and Future Work: In the conclusion and future we will summarize the key findings and outputs of the project and discuss the implications of the results. We will also highlight the strengths and weaknesses of the project and suggest potential areas for further development or improvement. We will also provide recommendations for future work, including possible additions or modifications to the website and topics for further research. Finally, we conclude with a final statement about the success of the project in meeting its objectives and its potential impact on the target audience.

Chapter 2: Litrature Review/ Background Study

A literature review or background study for a student spending tracking website project typically includes a comprehensive review of existing research, publications, and related websites on the topic of personal financial management for students. This would include a discussion of the challenges and issues students face in managing their finances, as well as the strategies and tools that have been developed to address these issues. In addition, we would review relevant literature on web design and development, including user experience design, information architecture, and web development frameworks. This review would inform the design and development of websites and ensure that they are user-friendly, accessible and effective in meeting the needs of the intended audience.

2.1 Timeline of Report Problem

The "Student Expense Tracker Website" project ran into several problems during its development. Initially, there were difficulties in defining the requirements and scope of the project, which caused a delay in the start of the implementation phase. In addition, there were technical issues with the integration of the front-end and back-end components of the site, which led to problems with data storage and retrieval. As a result, the development team had to devote more time to solving these problems, which caused the project timeline to increase. However, after several iterations of testing and debugging, the site was successfully launched with all the intended features and functionality.

2.2 Existing Solutions

There are several existing solutions for a project student expense tracking website, including:

Mint: Mint is a popular personal finance management tool that allows users to track their spending, create budgets and set financial goals. It is free to use and can be accessed via the website or mobile app.

Personal Capital: Personal Capital is a comprehensive financial management tool that includes features for investment tracking, retirement planning, and budgeting. It is free to use and can be accessed via the website or mobile app.

YNAB: YNAB, or You Need a Budget, is a popular budgeting app that helps users track their spending, set financial goals, and create a budget. It is available as a web or mobile app and offers a free trial before requiring a paid subscription.

PocketGuard: PocketGuard is a budgeting app that tracks expenses and income in real-time and offers customized budgeting advice based on spending habits. It is free to use and can be accessed via the website or mobile app.

Expensify: Expensify is a business expense management tool that allows users to track and submit expense reports. It includes features such as automatic receipt scanning, mileage tracking, and integration with accounting software. It offers both free and paid plans depending on the level of functionality needed.

These solutions can serve as a starting point for building student expense tracking websites and can be evaluated based on their features, pricing, and ease of use.

2.3 Biblomatric Analysis

Bibliometric analysis is a quantitative method used to analyze academic literature in a particular field or research topic. In the context of our project, bibliometric analysis help us understand trends and patterns in the student spending and tracking literature. Here are some steps which we take when conducting a bibliometric analysis:

1. **Identify relevant keywords:** Start by identifying keywords that are relevant to our research topic. In this case, keywords might be "student spending," "financial management," "budgeting," "spending tracking," and "personal finance."
2. **Search the literature:** Use academic databases such as Google Scholar, Web of Science, or Scopus to find relevant articles and articles that have been published on your topic.We use the advanced search features to

refine your search results based on factors such as publication date, author, and journal.

3. **Data analysis:** Once we collected a set of relevant articles, we use bibliometric analysis tools to analyze the data. One commonly used tool is bibliographic software such as EndNote or Zotero, which can help us to organize our references and create citation reports. We also use bibliometric software such as VOSviewer or CiteSpace to create visualizations of citation networks and co-citation patterns.
4. **Interpret the results:** Finally, interpret the results of our analysis to gain insight into trends and patterns in the literature. For example, we identify the most influential authors or journals in the field, or the most frequently cited concepts or methods. These insights helps to identify gaps in the literature and inform the development of project.

2.5 Problem Definition

The problem definition for the Student Expense Tracker web project would be to provide solutions for students to manage their expenses more effectively. Many students struggle with budgeting and managing their finances, which can lead to financial stress and difficulty meeting basic needs. The Student Expense Tracker website aims to solve this problem by providing students with a user-friendly platform to track their expenses, set budgets and analyze their spending habits. The website should also provide features such as reminders and alerts to help students stay on top of their finances and avoid overspending. Overall, the project aims to empower students to take control of their finances and improve their financial well-being.

2.6 Goals/ Objectives

Our goals for the Student Expense Tracker website project are:

- To create a user-friendly platform that allows students to easily track their expenses and manage their finances.
- Help students set budgets and financial goals and provide tools to help them achieve those goals.
- Provide students with an overview and analysis of their spending to help them make informed financial decisions.
- Helping students avoid overspending and manage their debt effectively.
- Create a secure platform that protects students' personal and financial information.
- Improve students' financial literacy and promote responsible financial behavior.
- Create a scalable and sustainable solution that can be used by a large number of students.
- Continually improve the platform based on user feedback and analytics to ensure the best possible user experience.

Overall, the main goal of the Student Expense Tracker website project is to provide students with a reliable and effective tool to manage their finances and improve their financial well-being.

Chapter 3: Design Flow / Process

The design flow or process for a Student Expense Tracker web project can be broken down into several key stages:

Research: Conduct research to understand the needs and behaviors of your target audience (students) and identify the key features and functions required for the website.

Planning: Create a project plan that outlines the project scope, timelines, and required resources. Define project goals, objectives and requirements.

Design: Create wireframes and prototypes to visualize the layout and structure of a website. This phase includes creating the user interface (UI) design, defining the navigation structure, and choosing color schemes and typography.

Development: Develop the website using appropriate web technologies and programming languages. This phase includes creating the front-end and back-end of the website, integrating various functions and features, and testing the website for bugs and errors.

Testing: Thoroughly test the website to make sure it works properly and meets the project requirements. This phase includes usability testing, functionality testing, and performance testing.

Deployment: Deploy the site to a production environment and make it available to the target audience. This phase includes setting up hosting and domain services, configuring the site for production use, and ensuring the site is secure and accessible.

Maintenance: Maintain and update the website regularly to ensure it remains functional and up-to-date. This phase includes fixing bugs and errors, updating content, adding new features, and ensuring the site is secure.

Overall, the Student Expense Tracker web project design flow or process involves a systematic and iterative approach to design and development with a focus on user needs and project goals.

3.1 Evaluation & Selection of Specifications/Features

The evaluation and selection of specifications/features for the Student Expense Tracker web project involves the following steps:

- Identify the goals and objectives of the project: The first step is to identify the goals and objectives of the project. This will help determine the features and specifications that are necessary to achieve the project's goals.

- Requirements Gathering: The next step is to gather requirements from the target audience (students) and other stakeholders. This includes identifying user needs, desired features and functions, and any technical specifications or limitations.
- Prioritization of requirements: Once the requirements have been collected, they need to be prioritized based on their importance to the project's goals and objectives. This will help identify the critical features that the website must include.
- Evaluate options: Next, evaluate the available options for implementing the desired functions and features. This includes evaluating the various technologies, software and tools that can be used to implement the requirements.
- Select Specifications/Features: Based on the evaluation, select the specifications and features that best meet the project's requirements and goals. This includes the selection of technologies, software and tools that will be used to implement critical functions.
- Testing and Validation: Once specifications and features are selected, they need to be tested and validated to ensure they meet the project's requirements and goals. This includes performing user testing, functionality testing, and performance testing to ensure that the website is functional and user-friendly.
- Make adjustments: If any issues or bugs are found during testing and validation, make the necessary adjustments to specifications and features to ensure they meet the project's requirements and goals.

Overall, the evaluation and selection of specifications/features for the Student Expense Tracker web project involves a systematic approach to gathering and prioritizing requirements, evaluating available options, and selecting the specifications and features that best meet the project's goals and objectives.

3.2 Design Constrains

The design limitations for the Student Expense Tracker web project are as follows:

- Accessibility: Websites must be designed to be accessible to a wide range of users, including those with disabilities. This includes website design with clear navigation, easy-to-read fonts and other features that make it easier for users to navigate and interact with the website.

- User Experience: The website must be designed to provide a positive user experience for the target audience (students). This includes designing a website with a user-friendly interface, clear and concise instructions, and easy-to-understand visual aids.
- Security: The website must be designed to be secure and protect user data. This includes implementing appropriate security measures, such as encryption and two-factor authentication, and regularly monitoring websites for security vulnerabilities.
- Performance: A website must be designed to perform well and load quickly. This includes optimizing the site's code, images and other resources to ensure that the site loads quickly and efficiently.
- Compatibility: A website must be designed to be compatible with a wide range of devices and browsers. This includes testing the site on different devices and browsers to ensure it works correctly and looks consistent.
- Scalability: A website must be designed to be scalable and able to handle large numbers of users and data. This includes designing a site with a scalable architecture and using the right technologies and infrastructure to support growth.
- Budget: The website must be designed within the allocated project budget. This includes selecting appropriate technologies and tools that fit budget

constraints and optimizing the design and development process to minimize costs.

Overall, design constraints for the Student Expense Tracker web project include designing a website that is accessible, user-friendly, secure, powerful, compatible, scalable, and cost-effective.

3.3 Analysis of Features and finalization subject to constraints

After analyzing the requirements and design constraints for the Student Expense Tracker website project, the following features have been identified:

1. **User Registration and Login**: The website will allow students to create an account and login to their account to access the expense tracking features.
2. **Expense Tracking:** The website will allow students to track their expenses, including the amount spent, category, and date.
3. **Budgeting**: The website will allow students to set a budget for each category of expenses and track their progress towards their budget.
4. **Analytics and Reports:** The website will provide students with analytics and reports on their expenses and budgets, including charts and graphs that visualize their spending patterns.
5. **Reminders and Notifications**: The website will provide students with reminders and notifications to help them stay on track with their budgets and expenses.
6. **Data Security and Privacy**: The website will be designed to ensure the security and privacy of user data, including implementing appropriate security measures such as encryption and two-factor authentication.
7. **Responsive Design**: The website will be designed to be responsive and compatible with a wide range of devices and browsers, including mobile devices.
8. **User-friendly Interface**: The website will be designed with a user-friendly interface that is easy to navigate and understand.

Finalization of the features will be subject to the identified design constraints, including accessibility, user experience, security, performance, compatibility, scalability, and budget. For example, the features will need to be designed to be accessible to a wide range of users, provide a positive user experience, and be secure and protect user data. The features will also need to be designed to perform well, be compatible

with a wide range of devices and browsers, and be scalable to handle a large number of users and data. Finally, the features will need to be designed within the allocated budget for the project, using appropriate technologies and tools that fit within the budget constraints.

3.4 Design Flow

The design flow for the Student Expense Tracker website project can be broken down into the following steps:

Requirement Gathering: In this phase, the requirements for the website are gathered and analyzed. This includes identifying the target audience, the features required, and any design constraints that need to be considered.

Design and Prototyping: Based on the requirements, the website's design is created and prototyped. This includes designing the website's user interface,

wireframes, and mockups. The website's layout, color schemes, typography, and other design elements are also decided in this phase.

Front-end Development: Once the design is finalized, the front-end development phase begins. This includes writing the HTML, CSS, and JavaScript code for the website. The website's responsive design is also implemented in this phase.

Back-end Development: In this phase, the back-end code for the website is developed. This includes developing the server-side code, APIs, and database schema. Security measures, such as encryption and two-factor authentication, are also implemented in this phase.

Testing and Quality Assurance: In this phase, the website is tested thoroughly to ensure that it meets the requirements and design constraints. This includes testing the website's functionality, performance, and security. Any issues found during testing are fixed, and the website is retested until it meets the required standards.

Deployment: Once the website has been thoroughly tested, it is deployed to a production environment. This includes setting up the website's server infrastructure and configuring the website to run in a production environment.

Maintenance and Support: Finally, the website is maintained and supported over time to ensure that it continues to function properly and meet the needs of its users. This includes regular updates and bug fixes, as well as providing customer support to users.

Overall, the design flow for the Student Expense Tracker website involves a structured approach to design, development, testing, and maintenance to ensure that the website meets the requirements and design constraints, and provides a positive user experience for its target audience.

3.5 Design Selection

The design selection for the Student Expense Tracker website involves selecting the appropriate design elements and technologies to meet the project requirements and design constraints. Here are some of the design selections that could be made for this project:

1. **User Interface Design:** The website's user interface (UI) should be designed to be user-friendly and intuitive. A clean and simple UI with a minimalistic design is recommended to avoid overwhelming users with too many options. The UI should be designed with a mobile-first approach to ensure compatibility with mobile devices.
2. **Front-end Development**: For front-end development, popular frameworks such as React, Angular, or Vue.js can be used to create the website's responsive design. The website should be designed to be compatible with a wide range of browsers, including desktop and mobile browsers.
3. **Back-end Development:** For the back-end development, a server-side scripting language such as PHP, Python, or Ruby can be used. A popular database management system such as MySQL or PostgreSQL can be used for storing user data. Security measures such as encryption, two-factor authentication, and input validation should be implemented to protect user data.
4. **Analytics and Reporting:** For analytics and reporting, popular charting and graphing libraries such as Chart.js or D3.js can be used to create visually appealing and interactive charts and graphs. The analytics and reporting features should be designed to provide insights into user expenses and budgets to help users better manage their finances.

5. **Notifications and Reminders:** To implement notifications and reminders, a popular messaging library such as Twilio or SendGrid can be used to send SMS or email notifications to users. The notifications and reminders should be designed to help users stay on track with their budgets and expenses.
6. **Security**: The website should be designed to be secure by implementing security measures such as SSL encryption, two-factor authentication, and input validation to prevent attacks such as cross-site scripting (XSS) and SQL injection. User data should also be encrypted and stored securely to protect user privacy.
7. **Hosting and Deployment:** For hosting and deployment, a popular cloud platform such as AWS, Azure, or Google Cloud can be used to deploy the website. The website's infrastructure should be designed to be scalable to handle a large number of users and data.

Overall, the design selections should be made based on the requirements and design constraints of the project to ensure that the website meets the needs of its target audience and provides a positive user experience.

3.6 Implementation plan/methodology

The implementation plan/methodology for the Student Expense Tracker website project can be based on the Agile methodology, which is an iterative and incremental approach to software development. Here is an overview of the implementation plan/methodology:

1. **Planning:** In this phase, the project requirements are analyzed and a project plan is developed. This includes identifying the project scope, deliverables, timelines, and resources required for the project.
2. **User Stories:** Based on the project requirements, user stories are developed to capture the needs of the target audience. The user stories are written from the perspective of the user and describe the user's goals and actions.
3. **Sprint Planning**: In this phase, the project team plans the sprints for the project. A sprint is a time-boxed period of 1-4 weeks in which the team works on a set of user stories. The sprint planning includes identifying the user stories to be implemented in the sprint, estimating the effort required, and defining the sprint goals.

4. **Development:** In the development phase, the project team works on implementing the user stories. The team uses an iterative approach to develop the features, test them, and refine them based on user feedback.
5. **Testing:** In this phase, the features developed are tested to ensure that they meet the requirements and design constraints. The testing includes unit testing, integration testing, and user acceptance testing.
6. **Sprint Review**: At the end of each sprint, the project team reviews the work done during the sprint. This includes reviewing the user stories completed, the features developed, and any issues encountered during the sprint.
7. **Sprint Retrospective**: In this phase, the project team reflects on the sprint and identifies areas for improvement. The team discusses what went well, what could be improved, and any changes that need to be made for the next sprint.
8. **Deployment**: Once all the sprints are completed, the project team deploys the website to a production environment. This includes setting up the website's server infrastructure and configuring the website to run in a production environment.
9. **Maintenance and Support:** Finally, the website is maintained and supported over time to ensure that it continues to function properly and meet the needs of its users. This includes regular updates and bug fixes, as well as providing customer support to users.

Overall, the implementation plan/methodology should be flexible and adaptive to changes in project requirements and design constraints. The Agile methodology provides a structured approach to software development that allows for iterative and incremental development, which helps to ensure that the project stays on track and meets the needs of its target audience.

CHAPTER 4.
RESULTS ANALYSIS AND VALIDATION

PROPOSED SYSTEM

To reduce manual calculations, we propose an application. This application allows users to maintain a digital automated diary. Each user will be required to register on the system at registration time, the user will be provided id, which will be used to maintain the record of each unique user. Expense Tracker application which will keep a track of Income-Expense of a user on a day to day basis. The best organizations have a way of tracking and handling these reimbursements. This ideal practice guarantees that the expenses tracked are accurately and in a timely manner. From a company perspective, timely settlements of these expenses when tracked well will certainly boost employees' morale. Additional feature of Expense and income prediction helps to better budjet management A) Advantages The best organizations have a way of tracking and handling these reimbursements. This ideal practice guarantees that the expenses tracked are accurately and in a timely manner. From a company perspective, timely settlements of these expenses when tracked well will certainly boost employees' morale Financially Aware and Improve Money Management tracking your expenditures ensures you achieve your project financial targets. How is that? By clearly understanding your project spending using project budget limits, you can aptly make the necessary changes to complete your project within time and budget. Effective expense tracking and reporting to avoid conflict. As a project manager or business owner, you can set clear policies for the expense types and reimbursement limits to avoid misunderstandings are about costs. Tracking the project expenses by asking team members to provide receipts is helpful to avoid conflict and maintain compliance also. An excellent reporting mechanism is extremely helpful to support the amount to be reimbursed to your team and also invoicing to your customer.

Helps anticipate the costs of similar projects When you formally track and report expenses, you have a permanent documentation which helps you correctly anticipate expenses for similar projects in the future. This is even more significant when it comes to budget-making process. Tracking the amount of money spent on the projects is important to invoice customers and determine the cost & profitability analysis when your company is providing services to another company. On the other hand, expense tracking or internal project is important for cost and ROI calculation. Understanding how this money is being

utilized across the project is such a significant issue. The consequence for not properly tracking and reporting project expenses may lead to a budgetary issues. B) Algorithm Used The least squares method is a statistical procedure to find the best fit for a set of data points by minimizing the sum of the offsets or residuals of points from the plotted curve. Least squares regression is used to predict the behavior of dependent variables. Least Squares Algorithm.

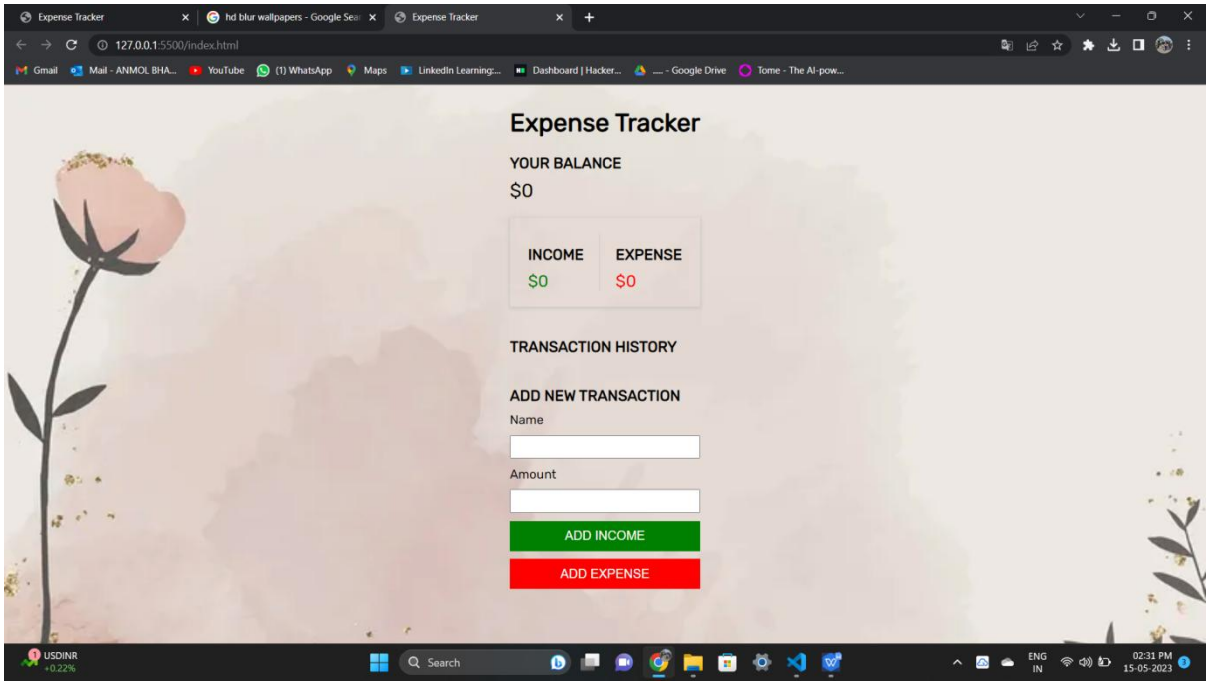
Implementation of solution

The new system has overcome most of the limitations of the existing system and works according to the design specification given. The project what we have developed is work more efficient than the other income and expense tracker. The project successfully avoids the manual calculation for avoiding calculating the income and expense per month. The modules are developed with efficient and also in an attractive manner. The developed systems dispense the problem and meet the needs of by providing reliable and comprehensive information. All the requirements projected by the user have been met by the system. The newly developed system consumes less processing time and all the details are updated and processed immediately. Since the screen provides online help messages and is very userfriendly, any user will get familiarized with its usage. Module s are designed to be highly flexible so that any failure requirements can be easily added to the modules without facing many problems. The best organizations have a way of tracking and handling these reimbursements. This ideal practice guarantees that the expenses tracked are accurately and in a timely manner. From a company perspective, timely settlements of these expenses when tracked well will certainly boost your employees' morale.

Quickly Determine How Profitable Student Is

Effective expense tracking and reporting to avoid conflict

Result Output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EXPENSE
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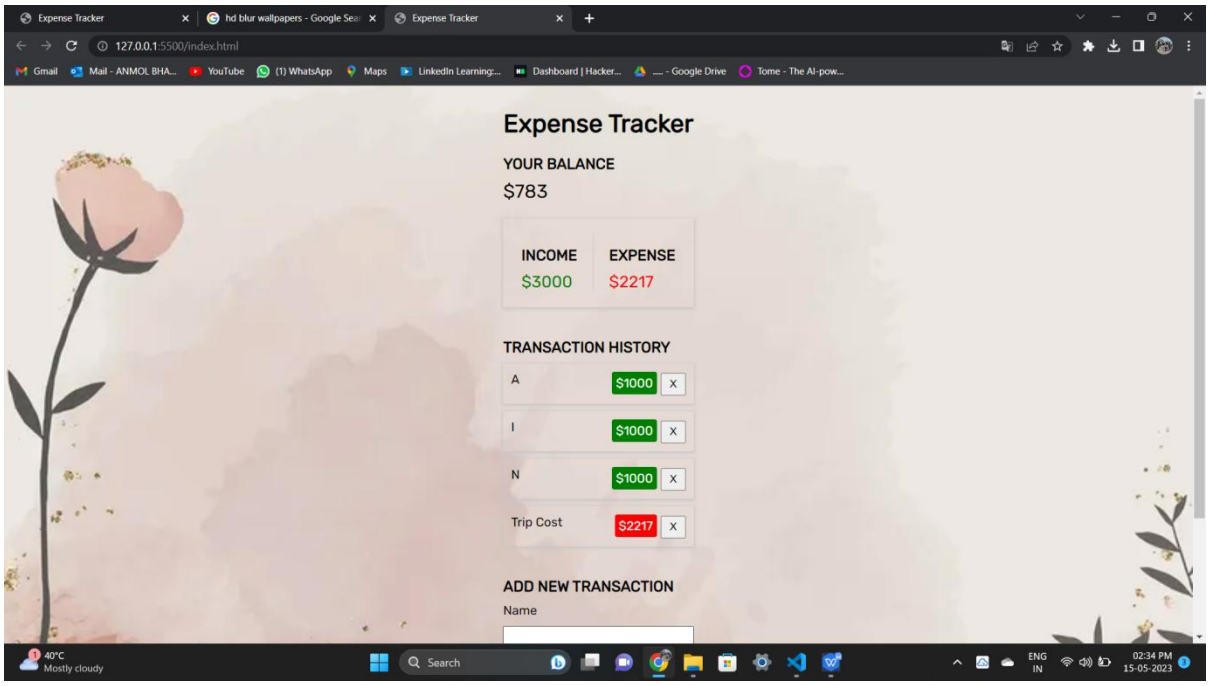
Amount
ADD INCOME
ADD EXPENSE


Expense Tracker
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Expense Tracker
YOUR BALANCE
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INCOME
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EXPENSE
$2217
TRANSACTION HISTORY
A
$1000
I
$1000
N
$1000
Trip Cost
$2217
ADD NEW TRANSACTION
Name

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