

PRO ANALYSIS-WEB ANALYSIS TOOL

Project Report Submitted By

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Reg. No.:AJC17MCA-I030

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(INMCA)**

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**AMAL JYOTHI COLLEGE OF ENGINEERING
KANJIRAPPALLY**

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DEPARTMENT OF COMPUTER APPLICATIONS
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CERTIFICATE

This is to certify that the Project report, “**PRO ANALYSIS WEB ANALYSIS TOOL**” is the bonafide work of **LIGIN ABRAHAM** (Reg.No:AJC17MCA-I030) in partial fulfillment of the requirements for the award of the Degree of Integrated Master of Computer Applications under APJ Abdul Kalam Technological University during the year 2017-22.

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I hereby declare that the project report “**PRO ANALYSIS-WEB ANALYSIS TOOL**” is a bonafide work done at Amal Jyothi College of Engineering, towards the partial fulfilment of the requirements for the award of the Degree of Integrated Master of Computer Applications (MCA) from APJ Abdul Kalam Technological University, during the academic year 2017-2022.

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LIGIN ABRAHAM

ABSTRACT

Tools for your site to learn about your visitors, build a following, increase sales and track your growth along the way. It is a very simple but informative tool for business analysis. Using the data user can increase their product sales. Moreover, this is completely safe and fast as it has fully featured software with a user-friendly tool. Used to track website activity such as session duration, pages per session, bounce rate etc. of individuals using the site, along with the information on the source of the traffic. It can be integrated with Branding feature, with which users can create and review online campaigns by tracking landing page quality and conversions (goals). Goals might include sales, lead generation, viewing a specific page, or downloading a particular file. It is more secure by double validation technique of the data. Tool is so fast so that it will not decrease the performance of the website. The data is represented using maps and graph so that user can understand the data easily. So interface is so user-friendly. User can earn revenue from ads based on region. User can select plan for your account, like basic plan, premium plan etc. User is given a wallet named prowallet to earn revenue and user can recharge their wallet by either referring. New admin panel added with ads viewing facility. Overall system is optimized and user can get to any function in less click.

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CHAPTER 1

INTRODUCTION

1.1 PROJECT OVERVIEW

Pro Analysis is a web analytics service that provides statistics and basic analytical tools for search engine optimization (SEO) and marketing purposes.

Pro Analysis is used to track website performance and collect visitor insights. It can help organizations determine top sources of user traffic, gauge the success of their marketing activities and campaigns, track goal completions (such as purchases, adding products to carts), discover patterns and trends in user engagement and obtain other visitor information such as demographics. Small and medium-sized retail websites often use Pro Analysis to obtain and analyze various customer behavior analytics, which can be used to improve marketing campaigns, drive website traffic and better retain visitors

1.2 PROJECT SPECIFICATION

The proposed system is a website in which user can Register there working website. Also, the customer can view the details of the website and can copy CDN. And paste in their website.

a. Create CDN

When a user creates his account, he has the provision to create a unique CDN for his website. User can paste that CDN in their registered website.

b. View Region based and date-based analysis

Region based and date-based analysis are to be done.

c. Add website and add ads to website

User can generate revenue from using this site

CHAPTER 2

SYSTEM STUDY

2. 1 INTRODUCTION

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information to recommend improvements on the system. It is a problem-solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is studied to the minute's detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes. System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action.

A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal.

Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive communication between the system users and system developers. It does various feasibility studies. In these studies, a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.

2.2 EXISTING SYSTEM

Existing system is not free to use, that is the customer had to buy membership to avail this offer.

2.3 DRAWBACKS OF EXISTING SYSTEM

- User interface is not good
- Costly
- Slower loading

2.4 PROPOSED SYSTEM

The proposed system is defined to meets all the disadvantages of the existing system. It is necessary to have a system that is more user friendly and user attractive for growth of service center; on such consideration the system is proposed. In our proposed system there is Used to track website activity such as session duration, pages per session, bounce rate etc. of individuals using the site, along with the information on the source of the traffic. It can be integrated with Branding feature, with which users can create and review online campaigns by tracking landing page quality and conversions (goals). Goals might include sales, lead generation, viewing a specific page, or downloading a particular file.

2.5 ADVANTAGES OF PROPOSED SYSTEM

The system is very simple in design and to implement. The system requires very low system resources, and the system will work in almost all configurations. It has got following features:

- Gives idea to increase their profit Analysis are represented in various graphical methods
- Easy to understand
- 100% secure
- Generate revenue from ads
- Different type of plan for different users
- Pro wallet for free

CHAPTER 3

REQUIREMENT ANALYSIS

3.1 FEASIBILITY STUDY

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that spend on it. Feasibility study lets the developer foresee the future of the project and the usefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus, when a new application is proposed it normally goes through a feasibility study before it is approved for development.

The document provides the feasibility of the project that is being designed and lists various areas that were considered very carefully during the feasibility study of this project such as Technical, Economic and Operational feasibilities. The following are its features: -

3.1.1 Economical Feasibility

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

The proposed system is developed as part of project work, there is no manual cost to spend for the proposed system. Also, all the resources are already available, it gives an indication of the system is economically possible for development.

The cost of project, Pro Analysis was divided according to the system used, its development cost and cost for hosting the project. According to all the calculations the project was developed in a low cost. As it is completely developed using open-source software.

3.1.2 Technical Feasibility

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Having identified an outline system, the investigation must go on to suggest the type of equipment, required method developing the system, of running the system once it has been designed.

Technical issues raised during the investigation are:

- Does the existing technology sufficient for the suggested one?
- Can the system expand if developed?

The project should be developed such that the necessary functions and performance are achieved within the constraints. The project requires high speed server for handling cdn request. Through the technology may become obsolete after some period of time, due to the fact that newer version of same software supports older versions, the system may still be used. So, there are minimal constraints involved with this project. The system has been developed using PHP in front end and MySQL in server in back end, the project is technically feasible for development. The system has been developed using PHP in front end and MySQL in server in back end, the project is technically feasible for development. The System used was also of good performance of Processor Intel i3 core; RAM 4GB and, Hard disk 1TB

3.1.3 Behavioral Feasibility

The proposed system includes the following questions:

- Is there sufficient support for the users?
- Will the proposed system cause harm?

The project would be beneficial because it satisfies the objectives when developed and installed. All behavioral aspects are considered carefully and conclude that the project is behaviorally feasible.

3.2 SYSTEM SPECIFICATION

3.2.1 Hardware Specification

Processor	- Intel core i3
RAM	- 4 GB
Hard disk	- 1 TB

3.2.2 Software Specification

Front End	- HTML, CSS
Backend	- MYSQL
Client on PC	- Windows 7 and above.
Technologies used	- JS, HTML5, AJAX, JQuery, PHP, CSS

3.3 SOFTWARE DESCRIPTION

3.3.1 PHP

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by the PHP group. While PHP originally stood for personal Home page, it now stands for PHP:Hypertext Preprocessor, a recursive acronym. PHP code is interpreted by a web server with a PHP processor module which generates the resulting web page. PHP commands can be embedded directly into a HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone incompatible with the GNU General Public License (GPL) due to restrictions on the usage of the term PHP. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge.

3.2.3 MySQL

MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation. The MySQL Web site provides the latest information about MySQL software.

- **MySQL is a database management system.**

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

- **MySQL databases are relational.**

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment. You set up rules governing the relationships between different data fields, such as one-to-one, one-to-many, unique, required or optional, and “pointers” between different tables. The database enforces these rules, so that with a well-designed database, your application never sees inconsistent, duplicate, orphan, out-of-date, or missing data. The SQL part of “MySQL” stands for “Structured Query Language”. SQL is the most common standardized language used to access databases. Depending on your programming environment, you might enter SQL directly (for example, to generate reports), embed SQL statements into code written in another language, or use a language-specific API that hides the SQL syntax. SQL is defined by the ANSI/ISO SQL Standard. The SQL standard has been evolving since 1986 and several versions exist. In this manual, “SQL92” refers to the standard released in 1992, “SQL: 1999” refers to the standard released in 1999, and “SQL: 2003” refers to the current version of the standard. We use the phrase “the SQL standard” to mean the current version of the SQL Standard at any time.

- **MySQL software is Open Source.**

Open Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. If you wish, you may study the source code and change it to suit your needs. The MySQL software uses the GPL (GNU General Public License), to define what you may and may not do with the software in different situations. If you feel uncomfortable with the GPL or need to embed MySQL code into a commercial application, you can buy a commercially licensed version from us. See the MySQL Licensing Overview for more information.

- **The MySQL Database Server is very fast, reliable, scalable, and easy to use.**

If that is what you are looking for, you should give it a try. MySQL Server can run comfortably on a desktop or laptop, alongside your other applications, web servers, and so on, requiring little or no attention. If you dedicate an entire machine to MySQL, you can adjust the settings to take advantage of all the memory, CPU power, and I/O capacity available.

- **MySQL Server works in client/server or embedded systems.**

The MySQL Database Software is a client/server system that consists of a multi-threaded SQL server that supports different backends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs). We also provide MySQL Server as an embedded multi-threaded library that you can link into your application to get a smaller, faster, easier-to-manage standalone product.

CHAPTER 4

SYSTEM DESIGN

4.1 INTRODUCTION

Design is the first step into the development phase for any engineered product or system. Design is a creative process. A good design is the key to effective system. The term “design” is defined as “the process of applying various techniques and principles for the purpose of defining a process or a system in sufficient detail to permit its physical realization”. It may be defined as a process of applying various techniques and principles for the purpose of defining a device, a process or a system in sufficient detail to permit its physical realization. Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm that is used. The system design develops the architectural detail required to build a system or product. As in the case of any systematic approach, this software too has undergone the best possible design phase fine tuning all efficiency, performance and accuracy levels. The design phase is a transition from a user-oriented document to a document to the programmers or database personnel. System design goes through two phases of development: Logical and Physical Design.

4.2 UML DIAGRAM

UML is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems. UML was created by the Object Management Group (OMG) and UML 1.0 specification draft was proposed to the OMG in January 1997.

UML stands for **Unified Modeling Language**. UML is different from the other common programming languages such as C++, Java, COBOL, etc. UML is a pictorial language used to make software blueprints. UML can be described as a general purpose visual modeling language to visualize, specify, construct, and document software system. Although UML is generally used to model software systems, it is not limited within this boundary. It is also used to model non-software systems as well. For example, the process flow in a manufacturing unit, etc. UML is not a programming language but tools can be used to generate code in various languages using UML diagrams. UML has a direct relation with object oriented analysis and design. After some standardization, UML has become an OMG standard. All the elements, relationships are used to make a complete UML diagram and the diagram represents a system. The visual effect of the UML diagram is the most important part of the entire process. All the other elements are used to make it complete. UML includes

the following nine diagrams.

- Use Case Diagram
- State chart Diagram
- Activity Diagram
- Class Diagram
- Sequence Diagram
- Deployment Diagram
- Object Diagram
- Component Diagram

4.2.1 USE CASE DIAGRAM

A use case diagram is a graphic depiction of the interactions among the elements of a system. A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. In this context, the term "system" refers to something being developed or operated, such as a mail-order product sales and service Web site. Use case diagrams are employed in UML (Unified Modeling Language), a standard notation for the modeling of real-world objects and systems.

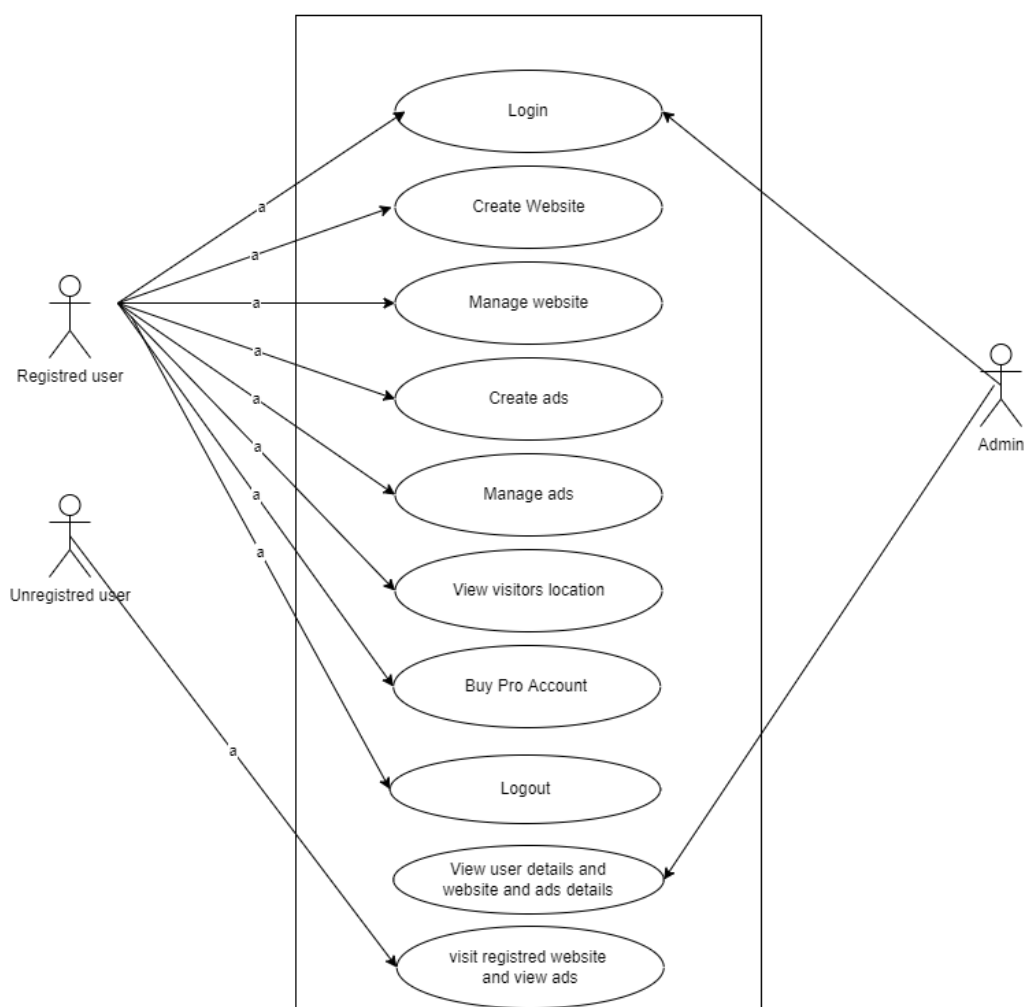
System objectives can include planning overall requirements, validating a hardware design, testing and debugging a software product under development, creating an online help reference, or performing a consumer-service-oriented task. For example, use cases in a product sales environment would include item ordering, catalog updating, payment processing, and customer relations. A use case diagram contains four components.

- The boundary, which defines the system of interest in relation to the world around it.
- The actors, usually individuals involved with the system defined according to their roles.
- The use cases, which are the specific roles are played by the actors within and around the system.
- The relationships between and among the actors and the use cases.

Use case diagrams are drawn to capture the functional requirements of a system. After identifying the above items, we have to use the following guidelines to draw an efficient use case diagram

- The name of a use case is very important. The name should be chosen in such a way so that it can identify the functionalities performed.
- Give a suitable name for actors.
- Show relationships and dependencies clearly in the diagram.
- Do not try to include all types of relationships, as the main purpose of the diagram is to identify the requirements.
- Use notes whenever required to clarify some important points.

Fig 1: Use case diagram for Proanalysis



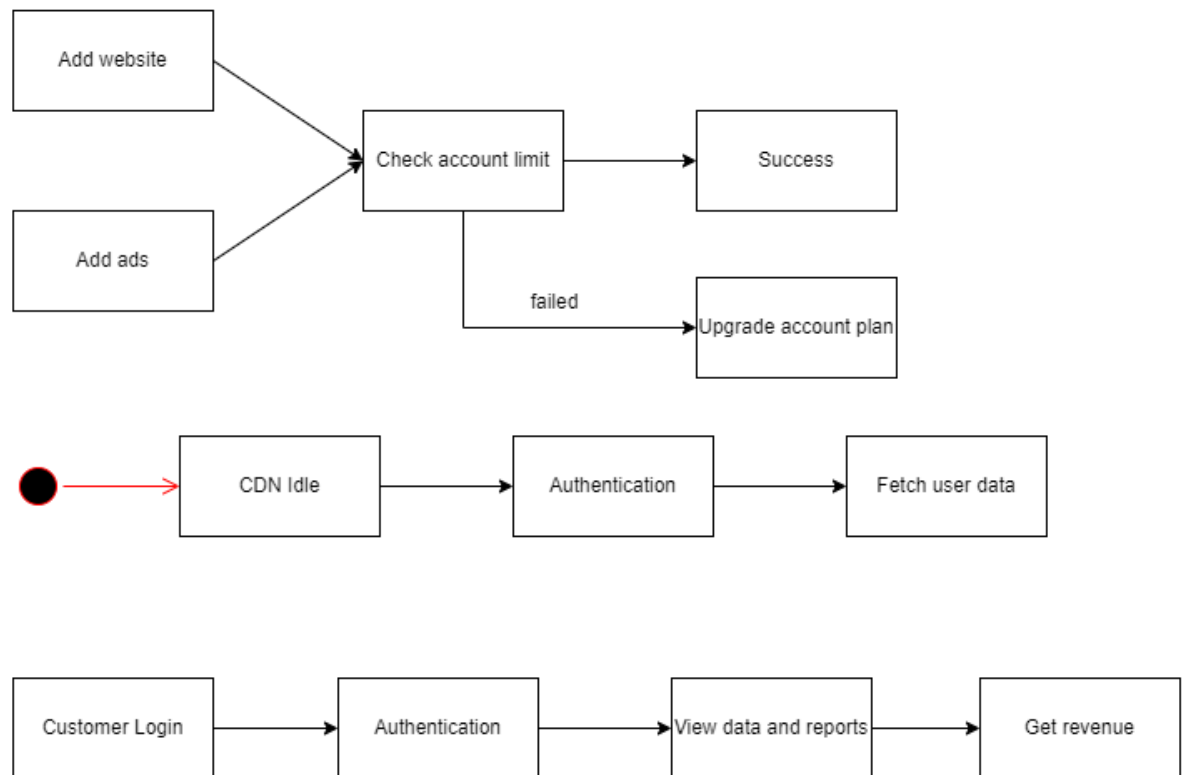
4.2.2 State chart Diagram

A state machine of the states of objects defined by State Chart Diagram. The state machine can be called a machine that tells different states of an object and these states are controlled by internal or external events. A state chart diagram is a kind of diagram used in CS and a similar field to tell us about the nature of the system. The Special kind of a diagram is the State chart diagram is known as Activity Diagram. It is used to the model of the states of objects of the time of life of an object so it is known as the State chart diagram. It shows the various states as for transition for everything in the diagram.

Basic of State Chart Diagram

1. It is one of the important UML diagrams used to model the spirited nature of a system.
2. The important aim of a diagram is to creation to termination from the states of objects.
3. These are also used for ahead and opposite engineering of a system. The main aim is to model the responsible system.
4. They describe different types of states of an object during its time of life and these states are updated by events and places where it used.
5. The main purposes of using State chart diagrams are follows,
 - Design the dynamic aspect of a system.
 - During its lifelong time defines the states of an object.
 - Model the time of a responsible system in states.
 - Tell a state product to design the states of an object.

Fig 2: State chart diagram for Proanalysis



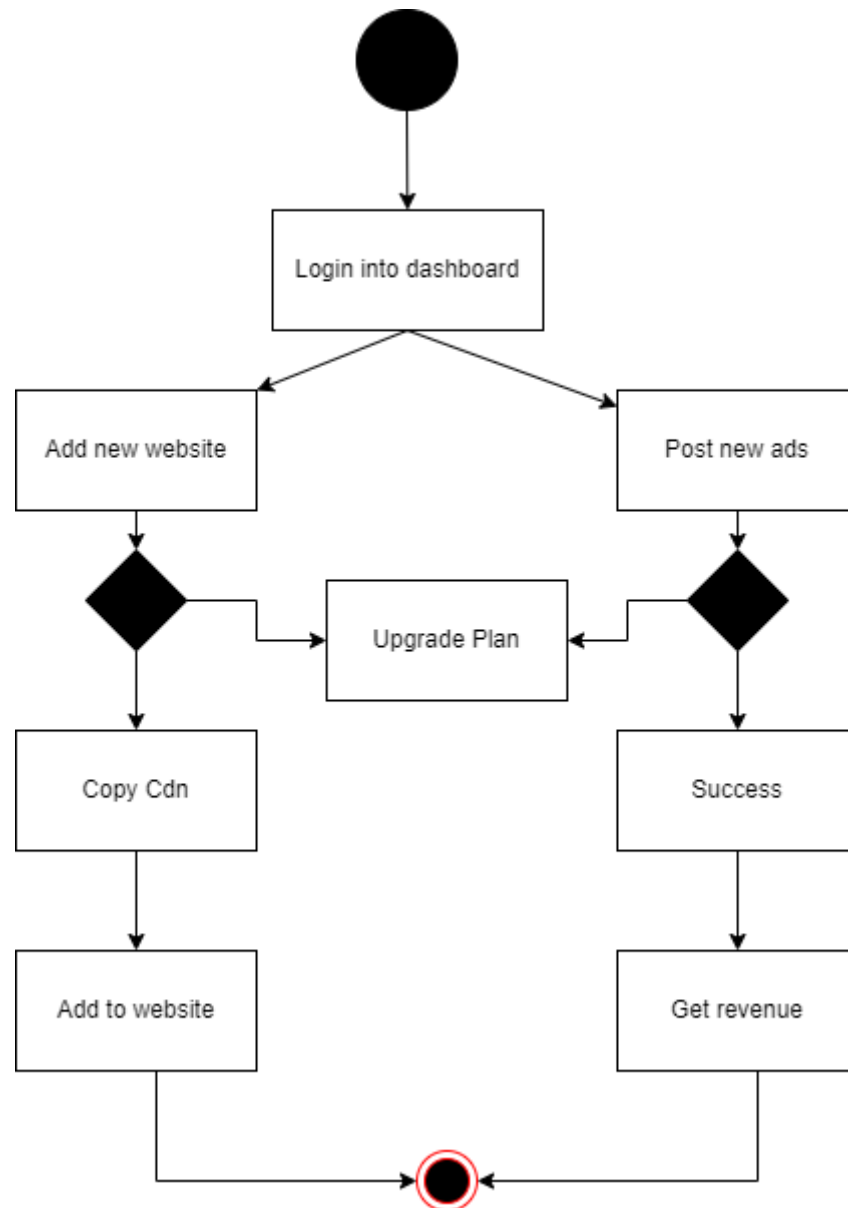
4.2.3 Activity Diagram

The basic purposes of activity diagrams are similar to other four diagrams. It captures the dynamic behaviour of the system. Other four diagrams are used to show the message flow from one object to another but activity diagram is used to show message flow from one activity to another.

Activity is a particular operation of the system. Activity diagrams are not only used for visualizing the dynamic nature of a system, but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in the activity diagram is the message part.

It does not show any message flow from one activity to another. Activity diagram is sometimes considered as the flowchart. Although the diagrams look like a flowchart, they are not. It shows different flows such as parallel, branched, concurrent, and single.

Fig 3: Activity diagram for Proanalysis



4.2.4 Class Diagram

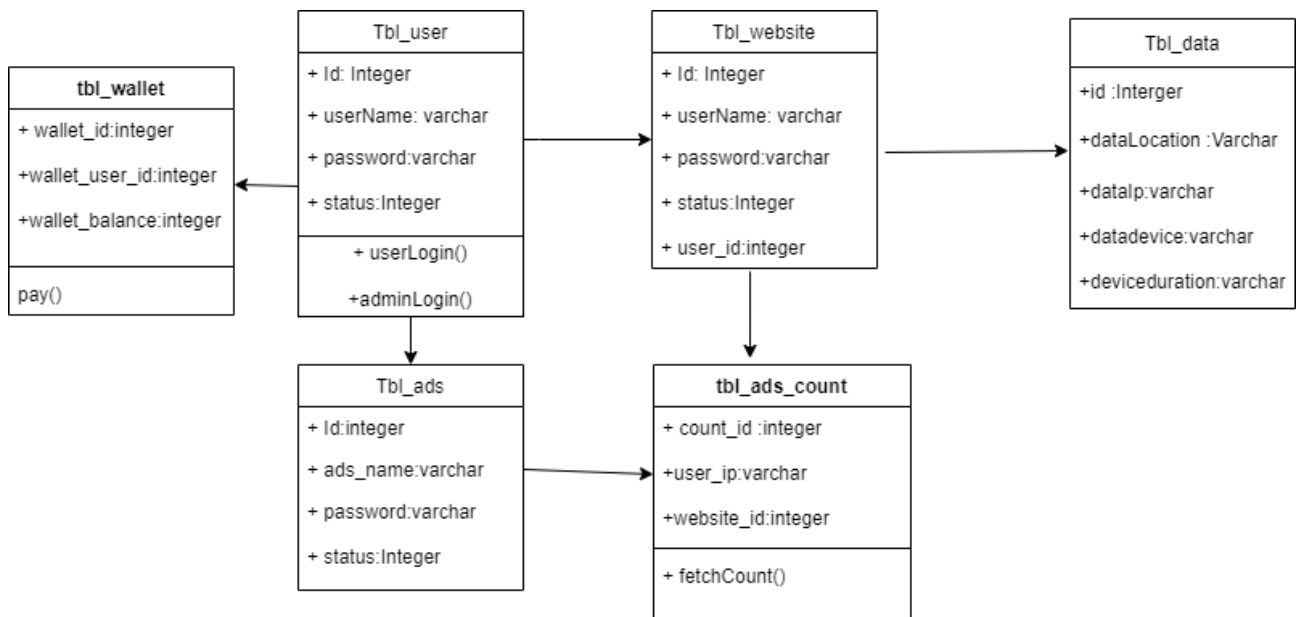
Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application.

Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modeling of object-oriented systems

because they are the only UML diagrams, which can be mapped directly with object-oriented languages.

Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.

Fig 4: Class diagram for Proanalysis



4.2.5 Sequence Diagram

A sequence diagram simply depicts interaction between objects in a sequential order i.e. the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function. These diagrams are widely used by businessmen and software developers to document and understand requirements for new and existing systems.

Sequence Diagram Notations –

- i. **Actors** – An actor in a UML diagram represents a type of role where it interacts with the system and its objects. It is important to note here that an actor is always outside the scope of the system we aim to model using the UML diagram. We use actors to depict various roles

including human users and other external subjects. We represent an actor in a UML diagram using a stick person notation. We can have multiple actors in a sequence diagram.

ii. Lifelines – A lifeline is a named element which depicts an individual participant in a sequence diagram. So basically, each instance in a sequence diagram is represented by a lifeline. Lifeline elements are located at the top in a sequence diagram

iii. Messages – Communication between objects is depicted using messages. The messages appear in a sequential order on the lifeline. We represent messages using arrows. Lifelines and messages form the core of a sequence diagram.

Messages can be broadly classified into the following categories:

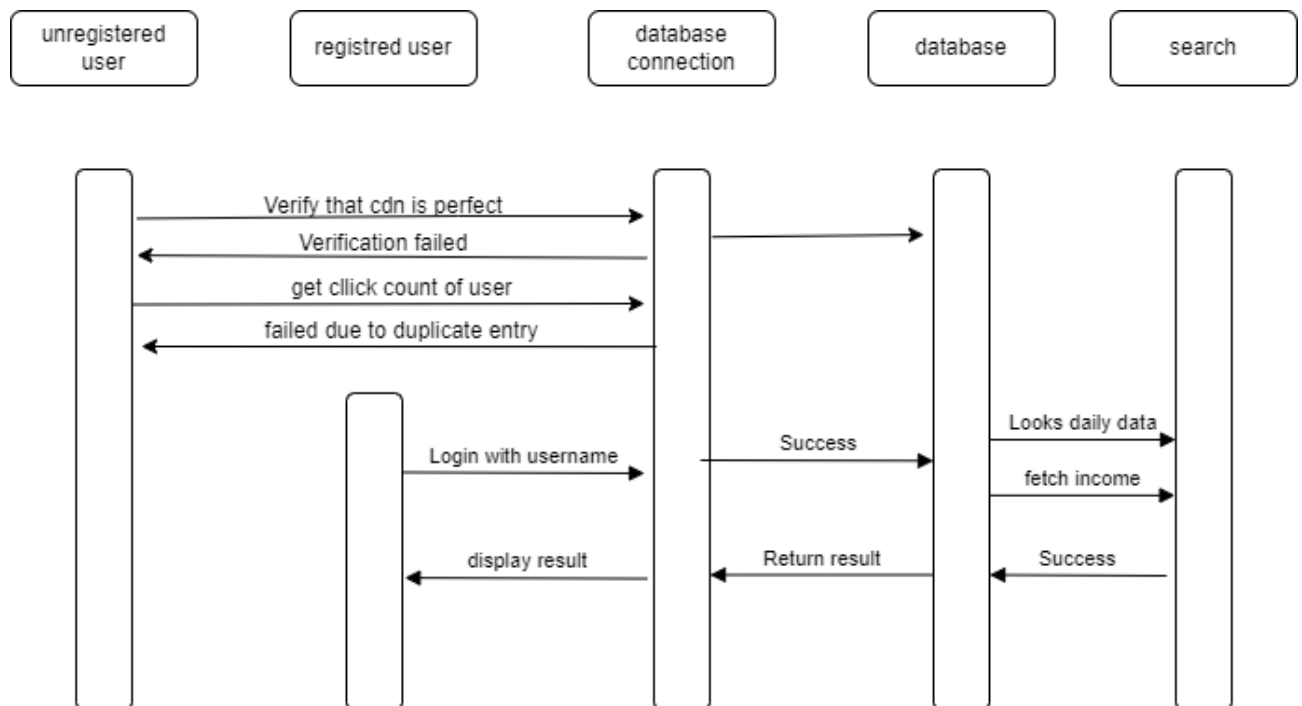
- Synchronous messages
- Asynchronous Messages
- Create message
- Delete Message
- Self-Message
- Reply Message
- Found Message
- Lost Message

iv. Guards – To model conditions we use guards in UML. They are used when we need to restrict the flow of messages on the pretext of a condition being met. Guards play an important role in letting software developers know the constraints attached to a system or a particular process.

Uses of sequence diagrams –

- Used to model and visualize the logic behind a sophisticated function, operation or procedure.
- They are also used to show details of UML use case diagrams.
- Used to understand the detailed functionality of current or future systems.
- Visualize how messages and tasks move between objects or components in a system.

Fig 5: Sequence diagram for Proanalysis



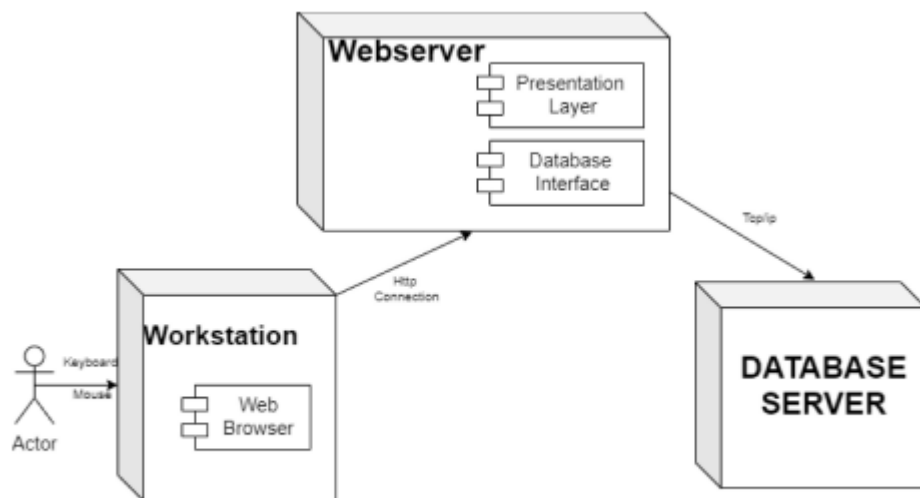
4.2.6 Deployment Diagram

A deployment diagram is a UML diagram type that shows the execution architecture of a system, including nodes such as hardware or software execution environments, and the middleware connecting them.

Deployment diagrams are typically used to visualize the physical hardware and software of a system. Using it you can understand how the system will be physically deployed on the hardware.

Deployment diagrams help model the hardware topology of a system compared to other UML diagram types which mostly outline the logical components of a system

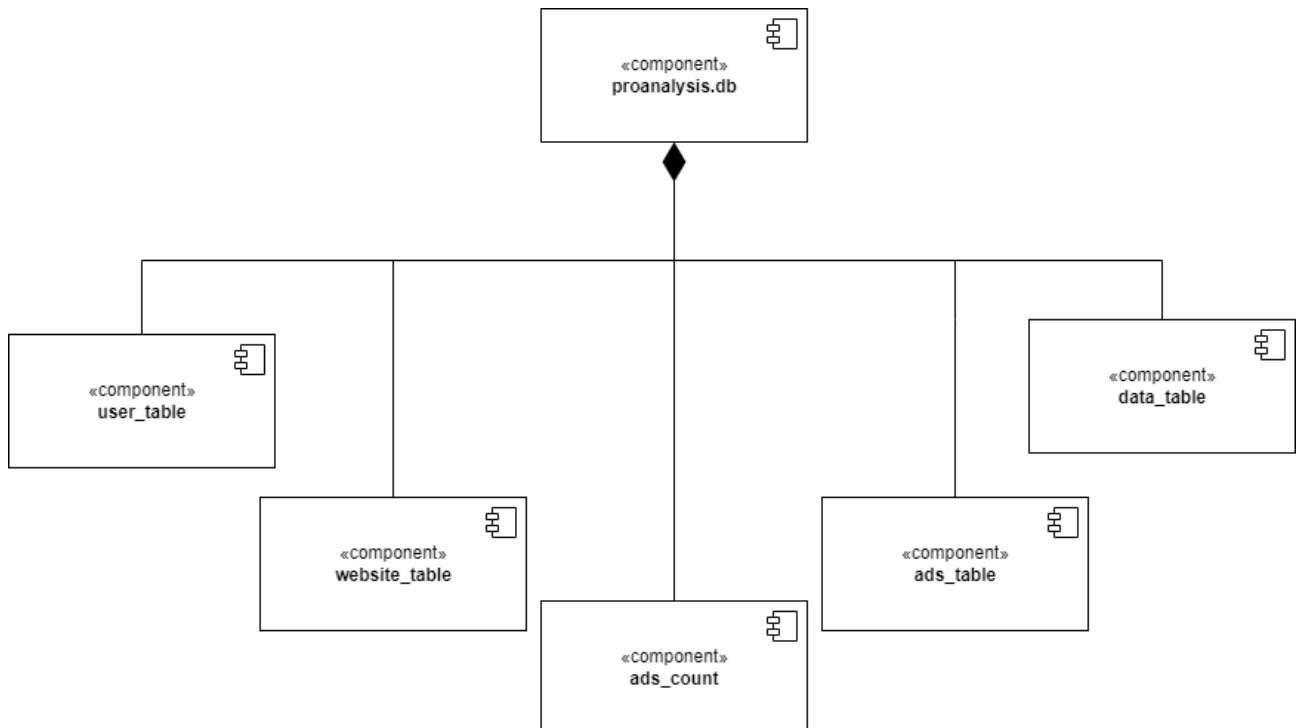
Fig 6: Deployment diagram for Proanalysis



4.2.7 Component diagram

In Unified Modeling Language (UML), a component diagram depicts how components are wired together to form larger components or software systems. They are used to illustrate the structure of arbitrarily complex systems.

Fig 7: Component diagram for Proanalysis



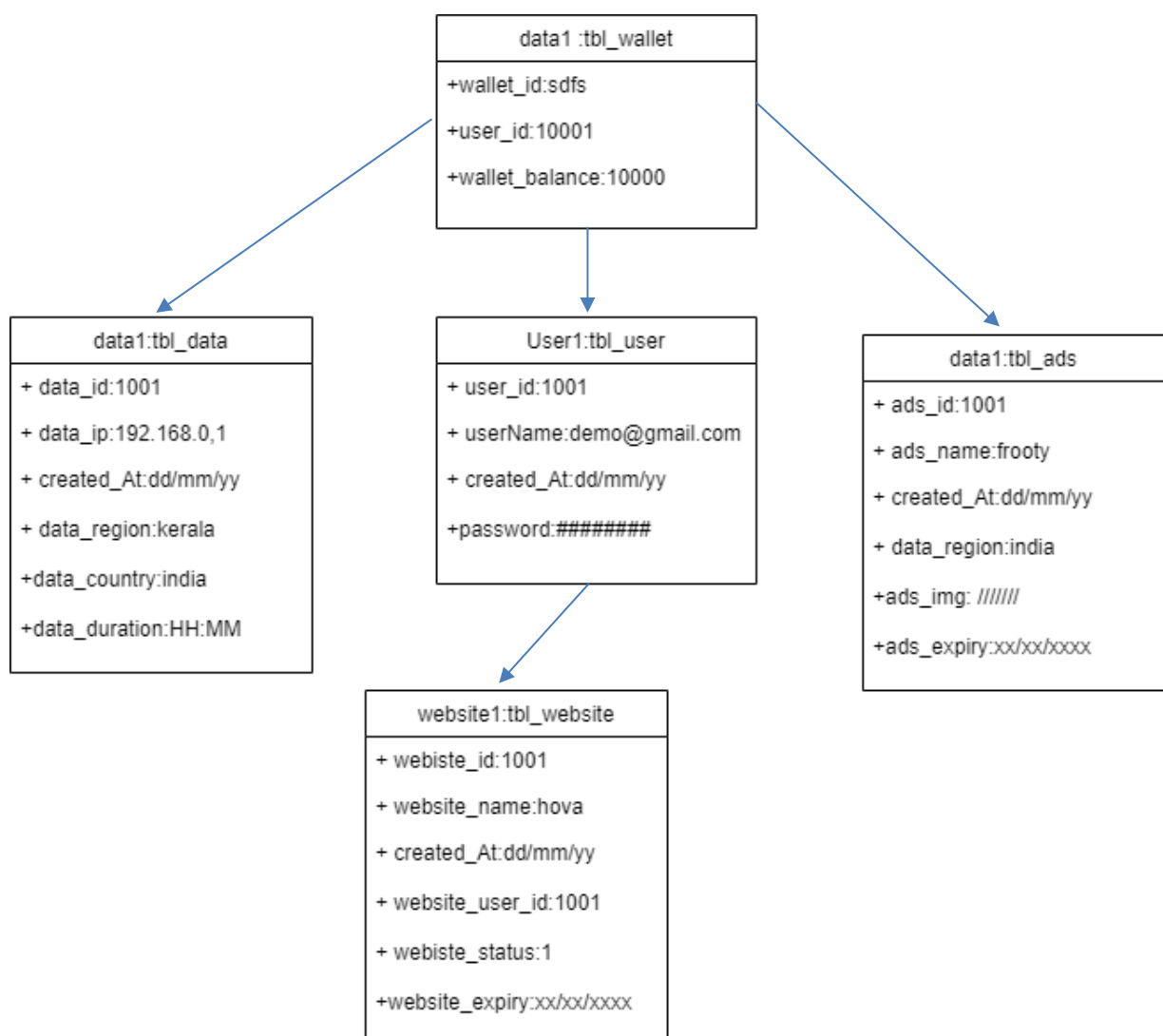
4.2.8 Object diagram

Object diagrams are derived from class diagrams so object diagrams are dependent upon class diagrams.

Object diagrams represent an instance of a class diagram. The basic concepts are similar for class diagrams and object diagrams. Object diagrams also represent the static view of a system but this static view is a snapshot of the system at a particular moment.

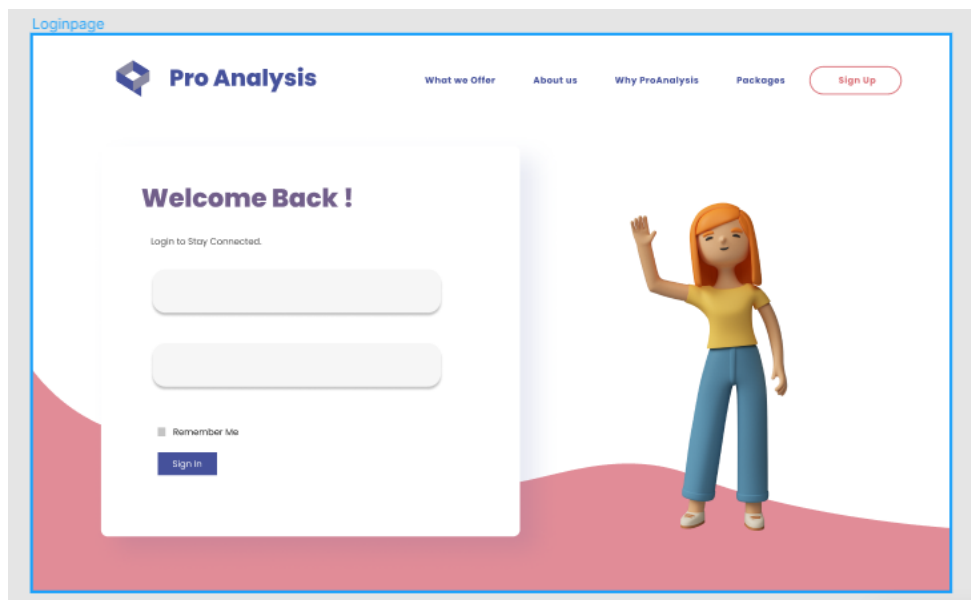
Object diagrams are used to render a set of objects and their relationships as an instance.

Fig 8: Object diagram for Proanalysis

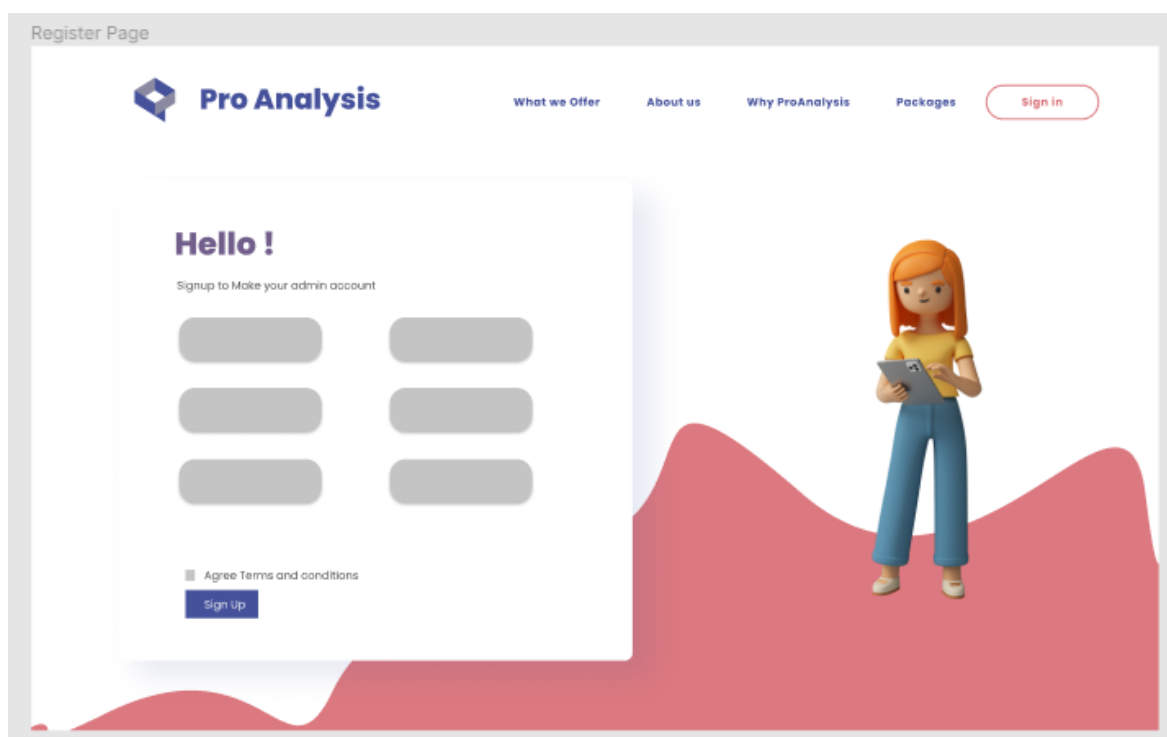


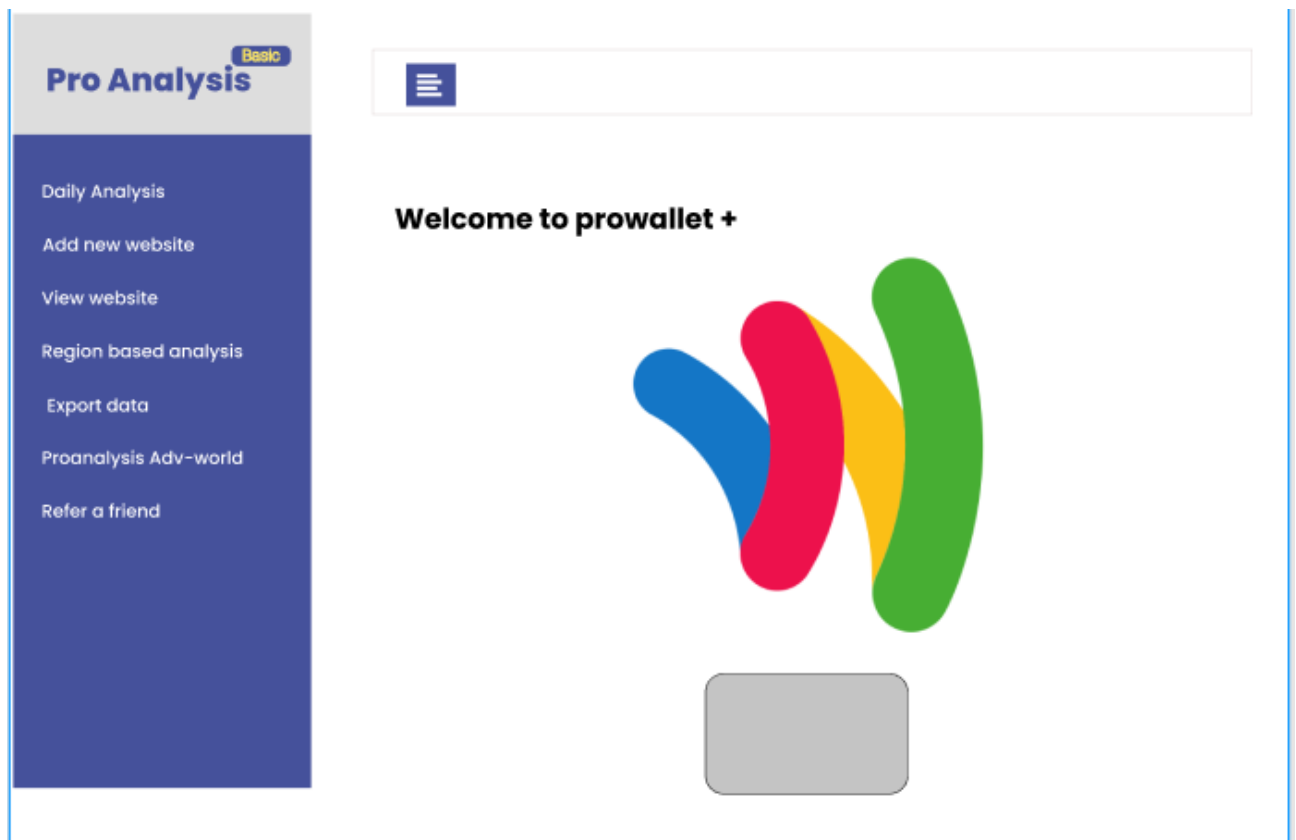
4.3 USER INTERFACE DESIGN USING FIGMA

Form Name : User Login

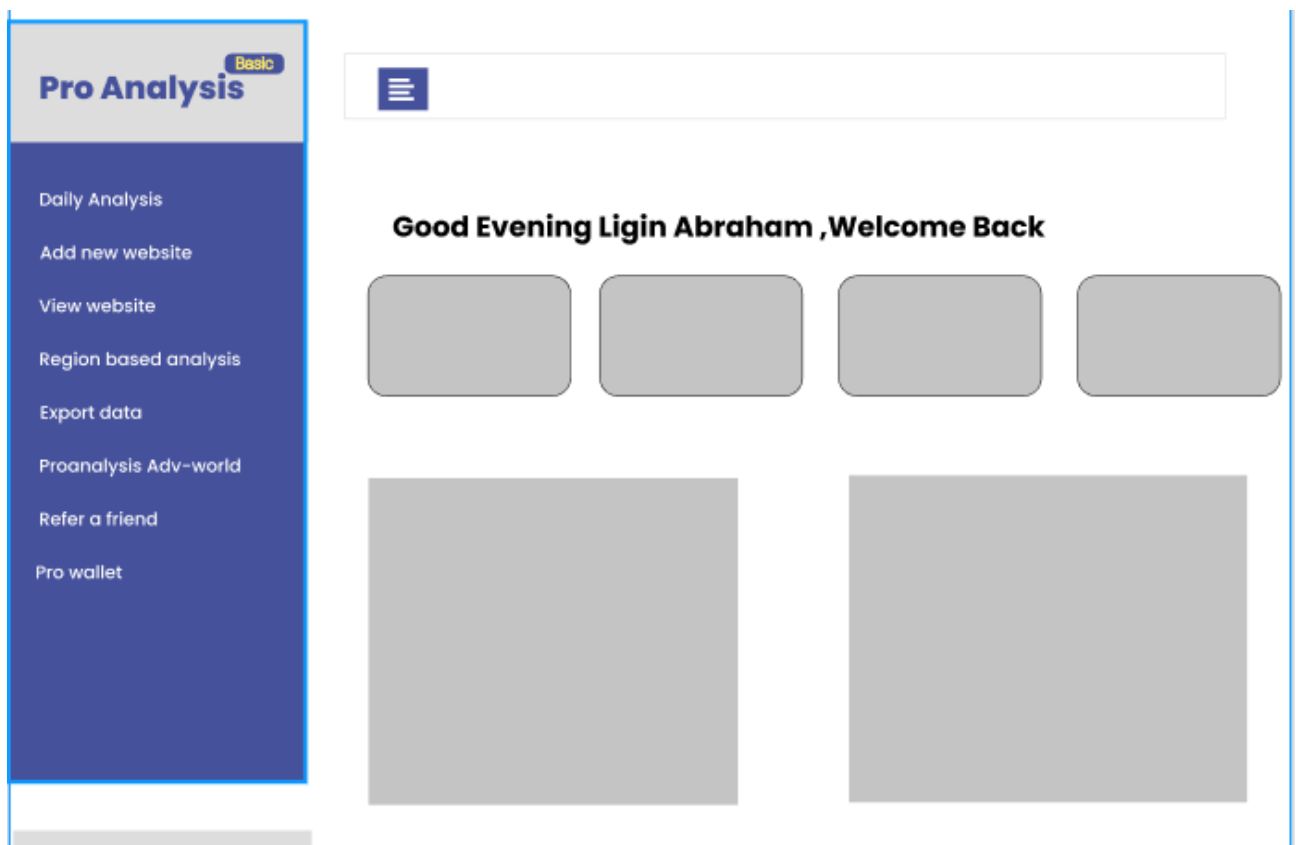


Form Name : User Registration



Form Name: Wallet design

The form for 'Wallet design' features a dark blue sidebar on the left with the 'Pro Analysis' logo and a 'Basic' tag. The sidebar menu includes: Daily Analysis, Add new website, View website, Region based analysis, Export data, Proanalysis Adv-world, and Refer a friend. The main content area has a white header with a hamburger menu icon. Below the header, it says 'Welcome to prowallet +' and displays a graphic of four overlapping, curved shapes in blue, red, yellow, and green. A single grey rounded rectangle is positioned below the graphic.

Form Name: User dashboard

The form for 'User dashboard' has a similar dark blue sidebar with the 'Pro Analysis' logo and a 'Basic' tag. The sidebar menu includes: Daily Analysis, Add new website, View website, Region based analysis, Export data, Proanalysis Adv-world, Refer a friend, and Pro wallet. The main content area has a white header with a hamburger menu icon. Below the header, it says 'Good Evening Ligin Abraham ,Welcome Back'. The dashboard contains four grey rounded rectangles in a row, and two larger grey rectangles below them.

Form Name: Add new website

The screenshot displays the 'Pro Analysis' web application interface. On the left is a dark blue sidebar with the 'Pro Analysis' logo and a 'Basic' tag. The sidebar menu includes: Daily Analysis, Add new website, View website, Region based analysis, Export data, Proanalysis Adv-world, Refer a friend, and Pro wallet. The main content area has a white header with a hamburger menu icon. Below the header, the page is titled 'Dashboard' and 'Add new website'. The form contains two input fields: 'Enter website name' and 'Enter website url', both with light gray borders. A blue 'Create Cdn' button is positioned below the input fields.

4.4 DATABASE DESIGN

A database is an organized mechanism that has the capability of storing information through which a user can retrieve stored information in an effective and efficient manner. The data is the purpose of any database and must be protected.

The database design is a two-level process. In the first step, user requirements are gathered together and a database is designed which will meet these requirements as clearly as possible. This step is called Information Level Design and it is taken independent of any individual DBMS.

In the second step, this Information level design is transferred into a design for the specific DBMS that will be used to implement the system in question. This step is called Physical Level Design, concerned with the characteristics of the specific DBMS that will be used. A database design runs parallel with the system design. The organization of the data in the database is aimed to achieve the following two major objectives.

- Data Integrity
- Data independence

4.4.1 Relational Database Management System (RDBMS)

A relational model represents the database as a collection of relations. Each relation resembles a table of values or file of records. In formal relational model terminology, a row is called a tuple, a column header is called an attribute and the table is called a relation.

Relations, Domains & Attributes

A table is a relation. The rows in a table are called tuples. A tuple is an ordered set of n elements. Columns are referred to as attributes. Relationships have been set between every table in the database. This ensures both Referential and Entity Relationship Integrity. A domain D is a set of atomic values. A common method of specifying a domain is to specify a data type from which the data values forming the domain are drawn. It is also useful to specify a name for the domain to help in interpreting its values.

Every value in a relation is atomic, that is not decomposable.

Relationships

- Table relationships are established using Key. The two main keys of prime importance are Primary Key & Foreign Key. Entity Integrity and Referential Integrity Relationships can be established with these keys.
- Entity Integrity enforces that no Primary Key can have null values.
- Referential Integrity enforces that no Primary Key can have null values.
- Referential Integrity for each distinct Foreign Key value, there must exist a matching Primary Key value in the same domain. Other key are Super Key and Candidate Keys.

4.4.1 Normalization

Data are grouped together in the simplest way so that later changes can be made with minimum impact on data structures. Normalization is formal process of data structures in manners that eliminates redundancy and promotes integrity. Normalization is a technique of separating redundant fields and breaking up a large table into a smaller one. It is also used to avoid insertion, deletion, and updating anomalies. Normal form in data modelling use two concepts, keys and relationships. A key uniquely identifies a row in a table. There are two types of keys, primary key and foreign key. A primary key is an element or a combination of elements in a table whose purpose is to identify records from the same table. A foreign key is a column in a table that uniquely identifies record from a different table. All the tables have been normalized up to the third normal form.

As the name implies, it denotes putting things in the normal form. The application developer via normalization tries to achieve a sensible organization of data into proper tables and columns and where names can be easily correlated to the data by the user. Normalization eliminates repeating groups at data and thereby avoids data redundancy which proves to be a great burden on the computer resources. These include:

- Normalize the data.
- Choose proper names for the tables and columns.
- Choose the proper name for the data.

First Normal Form

The First Normal Form states that the domain of an attribute must include only atomic values and that the value of any attribute in a tuple must be a single value from the domain of that attribute. In other words, 1NF disallows “relations within relations” or “relations as attribute values within tuples”. The only attribute values permitted by 1NF are single atomic or indivisible values. The first step is to put the data into First Normal Form. This can be done by moving data into separate tables where the data is of similar type in each table. Each table is given a Primary Key or Foreign Key as per requirement of the project. In this we form new relations for each non-atomic attribute or nested relation. This eliminated repeating groups of data. A relation is said to be in first normal form if only if it satisfies the constraints that contain the primary key only.

Second Normal Form

According to Second Normal Form, for relations where primary key contains multiple attributes, no non-key attribute should be functionally dependent on a part of the primary key. In this we decompose and setup a new relation for each partial key with its dependent attributes. Make sure to keep a relation with the original primary key and any attributes that are fully functionally dependent on it. This step helps in taking out data that is only dependent on a part of the key. A relation is said to be in second normal form if and only if it satisfies all the first normal form conditions for the primary key and every non-primary key attributes of the relation is fully dependent on its primary key alone.

Third Normal Form

According to Third Normal Form, Relation should not have a non-key attribute functionally determined by another non-key attribute or by a set of non-key attributes. That is, there should be no transitive dependency on the primary key. In this we decompose and set up relation that includes the non-key attributes that functionally determines other non-key attributes. This step is taken to get rid of anything that does not depend entirely on the Primary Key. A relation is said to be in third normal form if only if it is in second normal form and more over the non key attributes of the relation should not be depend on other non-key attribute.

4.5 TABLE DESIGN

Table Name: Tbl_user

Primary key : **user_id**

S.No	Name	Data type	Description
1.	User_id	Int	Login id
2.	User_name	Varchar	Username
3.	User_email	Varchar	User_email
4.	User_mobile	Int	User mobile
5.	User_password	Varchar	Password
6.	User_created_at	Varchar	Date
7.	User_updated_At	timestamp	Date
8.	User_Status	int	As defined 1

Table Name: Tbl_website

Primary key : **website_id**

Foreign key : **user_id** references table **Tbl_user**

S.No	Name	Data type	Description
1.	<i>Website_id</i>	int	website id
2.	<i>User_id</i>	int	Login id
3.	Website_name	varchar	website name
4.	Domain(check some domain)	varchar	website domain
5.	Website_created_At	varchar	Website_created
6.	Website_updated_At	date	Website_updated
7.	Website_status	int	Current Status

Table Name: Tbl_adsPrimary Key : **ads_id**Foreign Key : **data_user_id** references **Tbl_user**Foreign Key : **data_ads_id** references **Tbl_user**

S.No	Name	Data type	Description
1.	ads_id	int	Data id
2.	ads_user_id	int	User id
3.	ads_website_id	Varchar	Website_id
4.	ads_date	Varchar	Data date
5.	Ads_url	Varchar	url of picture
6.	Ads_region	Varchar	region
7.	Ads_expiry	Varchar	Month of expiry
8.	Ads_velocity	Varchar	Scale

Table Name: Tbl_ads_clickPrimary Key : **ads_click_id**Foreign Key: **data_user_id** references **Tbl_user**Foreign Key: **data_ads_click** references **Tbl_user**

S.No	Name	Data type	Description
1.	ads_click_id	int	Data id
2.	ads_website_id	int	Website_id
3.	ads_ip_address	Varchar	ipaddress
4.	ads_date	Varchar	Data date

Table Name: Tbl_logPrimary Key : **log_id**Foreign Key : **data_user_id** references **Tbl_user**Foreign Key : **log_id** references **Tbl_user**

S.No	Name	Data type	Description
1.	Log_id	int	Data id
2.	Log_type	int	Id of type
3.	Log_user_id	int	userId
4.	Log_date	Varchar	Data date

CHAPTER 5

SYSTEM TESTING

5.1 INTRODUCTION

Software Testing is the process of executing software in a controlled manner, in order to answer the question - Does the software behave as specified? Software testing is often used in association with the term's verification and validation. Validation is the checking or testing of items, includes software, for conformance and consistency with an associated specification. Software testing is just one kind of verification, which also uses techniques such as reviews, analysis, inspections, and walkthroughs. Validation is the process of checking that what has been specified is what the user actually wanted.

Other activities which are often associated with software testing are static analysis and dynamic analysis. Static analysis investigates the source code of software, looking for problems and gathering metrics without actually executing the code. Dynamic analysis looks at the behavior of software while it is executing, to provide information such as execution traces, timing profiles, and test coverage information.

Testing is a set of activity that can be planned in advanced and conducted systematically. Testing begins at the module level and work towards the integration of entire computers-based system. Nothing is complete without testing, as it vital success of the system testing objectives, there are several rules that can serve as testing objectives. They are:

Testing is a process of executing a program with the intent of finding an error.

- A good test case is one that has high possibility of finding an undiscovered error.
- A successful test is one that uncovers an undiscovered error.

If a testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software. Also testing demonstrate that the software function appears to be working according to the specification, that performance requirement appears to have been met.

There are three ways to test program.

- For correctness
- For implementation efficiency
- For computational complexity

Test for correctness are supposed to verify that a program does exactly what it was designed to do. This is much more difficult than it may at first appear, especially for large programs.

5.2 TEST PLAN

A test plan implies a series of desired course of action to be followed in accomplishing various testing methods. The Test Plan acts as a blue print for the action that is to be followed. The software engineers create a computer program, its documentation and related data structures. The software developers is always responsible for testing the individual units of the programs, ensuring that each performs the function for which it was designed. There is an independent test group (ITG) which is to remove the inherent problems associated with letting the builder to test the thing that has been built. The specific objectives of testing should be stated in measurable terms. So that the mean time to failure, the cost to find and fix the defects, remaining defect density or frequency of occurrence and test work-hours per regression test all should be stated within the test plan.

The levels of testing include:

- ❖ Unit testing
- ❖ Integration Testing
- ❖ Data validation Testing
- ❖ Output Testing

5.2.1 Unit Testing

Unit testing focuses verification effort on the smallest unit of software design – the software component or module. Using the component level design description as a guide, important control paths are tested to uncover errors within the boundary of the module. The relative complexity of tests and uncovered scope established for unit testing. The unit testing is white-box oriented, and step can be conducted in parallel for multiple components. The modular interface is tested to ensure that information properly flows into and out of the program unit under test. The local data structure is examined to ensure that data stored temporarily maintains its integrity during all steps in an algorithm's execution. Boundary conditions are tested to ensure that all statements in a module have been executed at least once. Finally, all error handling paths are tested.

Tests of data flow across a module interface are required before any other test is initiated. If data do not enter and exit properly, all other tests are moot. Selective testing of execution paths is an essential task during the unit test. Good design dictates that error conditions be anticipated and error handling paths set up to reroute or cleanly terminate processing when an error does occur. Boundary testing is the last task of unit testing step. Software often fails at its boundaries.

Unit testing was done in Sell-Soft System by treating each module as separate entity and testing each one of them with a wide spectrum of test inputs. Some flaws in the internal logic of the modules were found and were rectified. After coding each module is tested and run individually. All unnecessary code were removed and ensured that all modules are working, and gives the expected result.

5.2.2 Integration Testing

Integration testing is systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by design. The entire program is tested as whole. Correction is difficult because isolation of causes is complicated by vast expanse of entire program. Once these errors are corrected, new ones appear and the process continues in a seemingly endless loop. After performing unit testing in the System all the modules were integrated to test for any inconsistencies in the interfaces. Moreover, differences in program structures were removed and a unique program structure was evolved.

5.2.3 Validation Testing or System Testing

This is the final step in testing. In this the entire system was tested as a whole with all forms, code, modules and class modules. This form of testing is popularly known as Black Box testing or System tests.

Black Box testing method focuses on the functional requirements of the software. That is, Black Box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program.

Black Box testing attempts to find errors in the following categories; incorrect or missing functions, interface errors, errors in data structures or external data access, performance errors and initialization errors and termination errors.

5.2.4 Output Testing or User Acceptance Testing

The system considered is tested for user acceptance; here it should satisfy the firm's need. The software should keep in touch with perspective system; user at the time of developing and making changes whenever required. This done with respect to the following points:

- Input Screen Designs,
- Output Screen Designs,

The above testing is done taking various kinds of test data. Preparation of test data plays a vital role in the system testing. After preparing the test data, the system under study is tested using that test data. While testing the system by which test data errors are again uncovered and corrected by using above testing steps and corrections are also noted for future use.

5.2.5 Selenium testing

Selenium is one of the most widely used open-source Web UI (User Interface) automation testing suite. It was originally developed by Jason Huggins in 2004 as an internal tool at Thought Works. Selenium supports automation across different browsers, platforms and programming languages.

Selenium can be easily deployed on platforms such as Windows, Linux, Solaris and Macintosh. Moreover, it supports OS (Operating System) for mobile applications like iOS, windows mobile and android.

Selenium supports a variety of programming languages through the use of drivers specific to each language. Languages supported by Selenium include C#, Java, Perl, PHP, Python and Ruby. Currently, Selenium Web driver is most popular with Java and C#. Selenium test scripts can be coded in any of the supported programming languages and can be run directly in most modern web browsers. Browsers supported by Selenium include Internet Explorer, Mozilla Firefox, Google Chrome and Safari.

Selenium can be used to automate functional tests and can be integrated with automation test tools such as Maven, Jenkins, & Docker to achieve continuous testing. It can also be integrated with tools such as TestNG, & JUnit for managing test cases and generating reports.

5.2.6:Login page testcase

```
package testcases;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import browserImplementation.DriverSetup;

public class LoginTest {

    public static WebDriver driver;

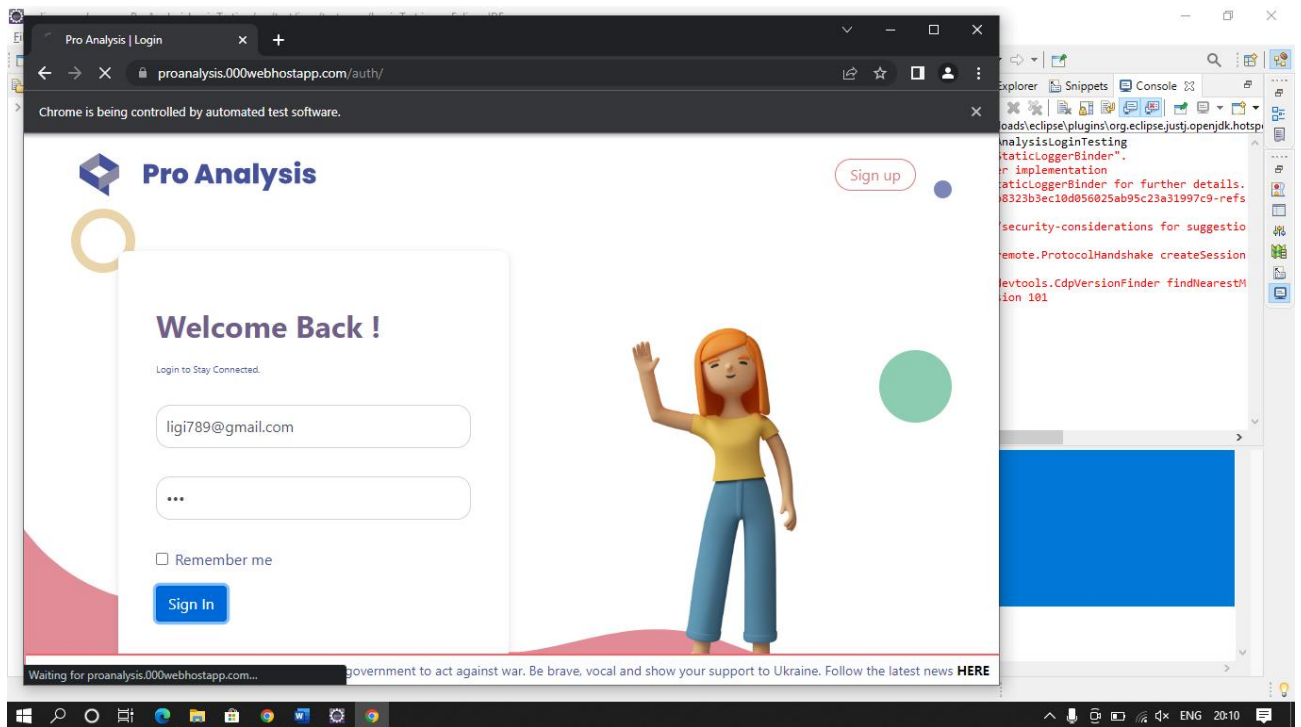
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        driver
DriverSetup.getWebDriver("https://proanalysis.000webhostapp.com/auth/");

        driver.findElement(By.name("email")).sendKeys("ligi789@gmail.com");
        driver.findElement(By.name("password")).sendKeys("123");
        driver.findElement(By.name("loginSubmit")).click();
        if(driver.findElement(By.xpath("/html/body/center/div")).isDisplayed()) {
            System.out.println("Error");
        }
        String actualTitle= driver.getTitle();
        String expectedTitle="Pro Analysis | Dashboard";
        if(actualTitle.equals(expectedTitle))
        {
            System.out.println("verification of TITLE is success");
            System.out.println("page title is :"+ expectedTitle);
        }
        else{
            System.out.println("verificaton is failed");
        }

        driver.quit();
    }
}
```

Output



5.2.7:view website testcase

```
package testcases;

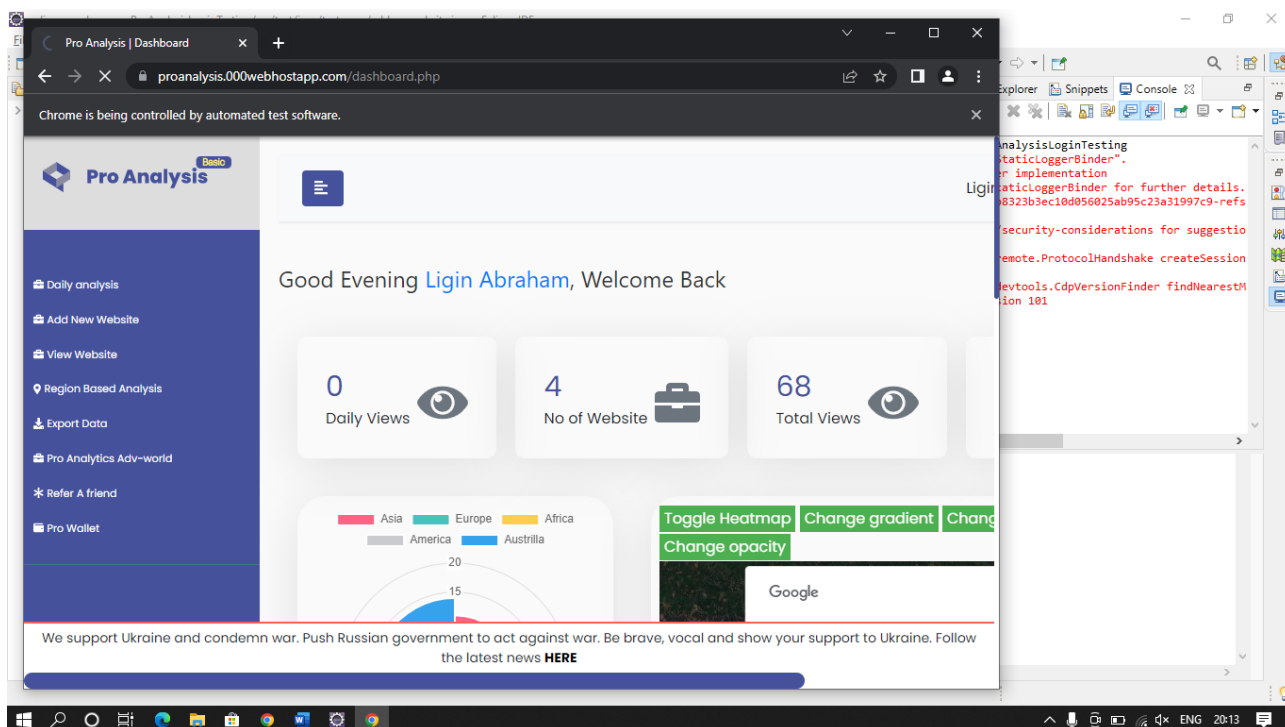
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import browserImplementation.DriverSetup;

public class addnewwebsite {

    public static WebDriver driver;

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        driver
=DriverSetup.getWebDriver("https://proanalysis.000webhostapp.com/auth/");
        driver.findElement(By.name("email")).sendKeys("login789@gmail.com");
        driver.findElement(By.name("password")).sendKeys("123");
        driver.findElement(By.name("loginSubmit")).click();
        driver.get("https://proanalysis.000webhostapp.com/dailyAnalysis.php");
        //login-Invalid case
        driver.findElement(By.name("fetchNewWebsite")).click();
        driver.findElement(By.name("logout")).click();
        driver.quit();
    }
}
```


Output:



CHAPTER 6

IMPLEMENTATION

6.1 INTRODUCTION

Implementation is the stage of the project where the theoretical design is turned into a working system. It can be considered to be the most crucial stage in achieving a successful new system gaining the users confidence that the new system will work and will be effective and accurate. It is primarily concerned with user training and documentation. Conversion usually takes place about the same time the user is being trained or later. Implementation simply means convening a new system design into operation, which is the process of converting a new revised system design into an operational one.

At this stage the main work load, the greatest upheaval and the major impact on the existing system shifts to the user department. If the implementation is not carefully planned or controlled, it can create chaos and confusion.

Implementation includes all those activities that take place to convert from the existing system to the new system. The new system may be a totally new, replacing an existing manual or automated system or it may be a modification to an existing system. Proper implementation is essential to provide a reliable system to meet organization requirements. The process of putting the developed system in actual use is called system implementation. This includes all those activities that take place to convert from the old system to the new system. The system can be implemented only after through testing is done and if it is found to be working according to the specifications. The system personnel check the feasibility of the system. The more complex the system being implemented, the more involved will be the system analysis and design effort required to implement the three main aspects: education and training, system testing and changeover.

The implementation state involves the following tasks:

- ☐ Careful planning.
- ☐ Investigation of system and constraints.
- ☐ Design of methods to achieve the changeover.

6.2 IMPLEMENTATION PROCEDURES

Implementation of software refers to the final installation of the package in its real environment, to the satisfaction of the intended uses and the operation of the system. In many organizations someone who will not be operating it, will commission the software development project. In the initial stage people doubt about the software but we have to

ensure that the resistance does not build up, as one has to make sure that:

- The active user must be aware of the benefits of using the new system.
- Their confidence in the software is built up.
- Proper guidance is imparted to the user so that he is comfortable in using the application.

Before going ahead and viewing the system, the user must know that for viewing the result, the server program should be running in the server. If the server object is not up running on the server, the actual process won't take place.

6.2.1 User Training

User training is designed to prepare the user for testing and converting the system. To achieve the objective and benefits expected from computer-based system, it is essential for the people who will be involved to be confident of their role in the new system. As system becomes more complex, the need for training is more important. By user training the user comes to know how to enter data, respond to error messages, interrogate the database and call up routine that will produce reports and perform other necessary functions.

6.2.2 Training on the Application Software

After providing the necessary basic training on computer awareness the user will have to be trained on the new application software. This will give the underlying philosophy of the use of the new system such as the screen flow, screen design type of help on the screen, type of errors while entering the data, the corresponding validation check at each entry and the ways to correct the data entered. It should then cover information needed by the specific user/ group to use the system or part of the system while imparting the training of the program on the application. This training may be different across different user groups and across different levels of hierarchy

6.2.3 System Maintenance

Maintenance is the enigma of system development. The maintenance phase of the software cycle is the time in which a software product performs useful work. After a system is successfully implemented, it should be maintained in a proper manner. System maintenance is an important aspect in the software development life cycle. The need for system maintenance is for it to make adaptable to the changes in the system environment. Software maintenance is of course, far more than "Finding Mistakes".

CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 CONCLUSION

The current system working technology is old fashioned and there is no free service, the proposed system has a free service and system dashboard and user interface is easy to use, it is more secure than other system. The proposed system is highly secure by providing double validation and field are also validated, payment is secured by razor pay security. The user can earn revenue from adding their website. Proposed system is user-friendly so that user can easily understand the features and options. The plan is divided into 3 types, free, basic, premium so that user can easily. Select their options accordingly you there need.so that can cost effectively select their plan.

7.2 FUTURE SCOPE

Extend admin module and made new system to identify false ads. User can withdraw their revenue. Extend ads module and give analysis based on user interest.

CHAPTER 8

BIBLIOGRAPHY

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8.2 WEBSITES:

- www.w3schools.com
- www.jquery.com
- <http://homepages.dcc.ufmg.br/~rodolfo/es-1-03/IEEE-Std-830-1998.pdf>
- www.agilemodeling.com/artifacts/useCaseDiagram.html

CHAPTER 9

APPENDIX

9.1 Sample Code

Login.html

```
<?php
    session_start();
    include('../cred/dbConnect.php');
    if (isset($_SESSION["proAnalysisSession"]) == session_id()) {
        header("Location: ../dashboard.php");
        die();
    } else {
?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Pro Analysis | Login</title>
    <link rel="icon" type="image/png" sizes="16x16" href="../assets/vectors/Logo.svg">
    <script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-
H+K7U5CnXl1h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk="
crossorigin="anonymous"></script>

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="../assets/css/bootstrap.min.css" />
    <link rel="stylesheet" href="../assets/css/style.css" />
    <style>
        body {
            overflow-y: hidden;
            overflow-x: hidden;
        }
    </style>
</head>

<body>
    <!-- Header Navbar -->
    <div id="navbar-wrapper" class="sticky-top position-relative">
        <nav class="
            navbar navbar-expand-lg navbar-light
            mt-2
            col-11 col-xl-10
            mx-auto
```

```

">
<a class="navbar-brand my-auto" href="#">
  
</a>
<button class="navbar-toggler mr-n3 shadow9 bg-white border-0" type="button"
data-toggle="collapse" data-target="#navbarText" aria-controls="navbarText" aria-
expanded="false" aria-label="Toggle navigation">
  <span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="navbarText">
  <ul class="navbar-nav ml-auto">

    <li class="nav-item mx-3">
      <a href="/register.php" class="btn"><button>Sign up</button></a>
    </li>
  </ul>
</div>
</nav>
</div>
<!-- Header Navbar End -->
<!-- Alert for Register -->
<?php
if (isset($_SESSION['loginMessage'])) {
  echo "<center><div class='alert bg-danger text-light alert-dismissible fade show col-
4' role='alert'>
    <center><strong>" . $_SESSION['loginMessage'] .
"</strong></center>
    <button type='button' class='close' data-dismiss='alert' aria-
label='Close'>
      <span aria-hidden='true'>&times;</span>
    </button>
  </div></center>";
  unset($_SESSION['loginMessage']);
}

?>
<!-- Main Content -->
<div class="position-relative">
  <div class="position-absolute" style="left: 50px; z-index:-1">
    
  </div>
  <div class="position-absolute" style="right: 50px; bottom:10px; z-index:-1">
    
  </div>
  <div class="position-absolute" style="right: 50px; top:150px; z-index:-1">
    

```

```

    </div>
  </div>
  <div class="d-flex">
    <div class="main-content">
      <div class="maintext">
        <h2>Welcome Back !</h2>
      </div>
      <div class="subtext">Login to Stay Connected.</div>
      <div class="main-form">
        <form action="/authentication.php" method="POST">
          <div class="form-group">
            <input type="email" class="form-control custom-control"
id="exampleInputEmail1" aria-describedby="emailHelp" placeholder="Enter email"
name="email" required />
          </div>
          <div class="form-group">
            <input type="password" class="form-control custom-control"
id="exampleInputPassword1" placeholder="Password" name="password" required />
          </div>
          <div class="form-group form-check">
            <input type="checkbox" class="form-check-input" id="exampleCheck1" />
            <label class="form-check-label" for="exampleCheck1">Remember me</label>
          </div>
          <button type="submit" class="btn btn-primary button-sub"
name="loginSubmit">
            Sign In
          </button>
        </form>
      </div>
    </div>
    <div class="ladyimg position-relative">
      
    </div>
  </div>

  <div class="background-login position-relative">
    
  </div>
  <script src="../assets/scripts/bootstrap.min.js"></script>

</body>

</html>
<?php
}
?>

```

Register.html

```
<?php
    session_start();
    include('../cred/dbConnect.php');
    if (isset($_SESSION["proAnalysisSession"]) == session_id()) {
        header("Location: ../dashboard.php");
        die();
    } else {
?>
    <!DOCTYPE html>
    <html lang="en">

    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Pro Analysis | Register</title>
        <link rel="icon" type="image/png" sizes="16x16"
href="../assets/vectors/Logo.svg">

        <script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-
H+K7U5CnX11h5ywQfKtSj8PCmoN9aaq30gDh27Xc0jk="
crossorigin="anonymous"></script>
        <!-- Font Awesome JS -->
        <script defer src="https://use.fontawesome.com/releases/v5.0.13/js/solid.js"
integrity="sha384-
tzzSw1/Vo+0N5UhStP3bvwWPq+uvzCMfrN1fEFe+xBmvlC/AtVX5K0uZtmcHitFZ"
crossorigin="anonymous"></script>
        <script defer src="https://use.fontawesome.com/releases/v5.0.13/js/fontawesome.js"
integrity="sha384-
6OIrr52G08NpOFSZdxxz1xdNSndID4vdcf/q2myIUVO0VsqaGHJsB0RaBE01VTOY"
crossorigin="anonymous"></script>

        <!-- Bootstrap CSS -->
        <link rel="stylesheet" href="../assets/css/bootstrap.min.css" />
        <link rel="stylesheet" href="../assets/css/style.css" />
        <style>
            body {
                overflow-y: hidden;
                overflow-x: hidden;
            }

            .custom-warning::placeholder {
                color: red !important;
            }
        </style>
```

```

</head>

<body>
<!-- Header Navbar -->
<div id="navbar-wrapper" class="sticky-top position-relative">
  <nav class="
    navbar navbar-expand-lg navbar-light
    mt-2
    col-11 col-xl-10
    mx-auto
  ">
    <a class="navbar-brand my-auto" href="..">
      
    </a>
    <button class="navbar-toggler mr-n3 shadow9 bg-white border-0" type="button"
data-toggle="collapse" data-target="#navbarText" aria-controls="navbarText" aria-
expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarText">
      <ul class="navbar-nav ml-auto">

        <li class="btn nav-item mx-3">
          <a href=".."><button>Sign in</button></a>
        </li>
      </ul>
    </div>
  </nav>
</div>
<!-- Header Navbar End -->
<!-- Alert for Register -->
<?php
if (isset($_SESSION['loginMessage'])) {
  echo "<center><div class='alert bg-danger text-light alert-dismissible fade show
col-4' role='alert'>
      <center><strong>" . $_SESSION['loginMessage'] .
" </strong></center>
      <button type='button' class='close' data-dismiss='alert' aria-
label='Close'>
        <span aria-hidden='true'>&times;</span>
      </button>
    </div></center>";
  unset($_SESSION['loginMessage']);
}

?>

```

```

<div class="position-relative">
  <div class="position-absolute" style="left: 50px; z-index:-1">
    
  </div>
  <div class="position-absolute" style="right: 50px; bottom:10px; z-index:-1">
    
  </div>
  <div class="position-absolute" style="right: 50px; top:150px; z-index:-1">
    
  </div>
</div>
<!-- Main Content -->
<div class="d-flex">
  <div class="main-content">
    <div class="maintext">
      <h2>Hello !</h2>
    </div>
    <div class="subtext" id="subtext">Signup to make your admin account.</div>
    <div class="main-form">
      <form action="/authentication.php" method="POST" name="registerForm">
        <div class="form-group d-flex">
          <input type="text" class="form-control custom-control1"
onblur="validate_name()" id="firstname" aria-describedby="emailHelp"
placeholder="First Name" name="firstname" required />
          <input type="text" class="form-control custom-control1" id="lastname"
onblur="validate_lname()" aria-describedby="emailHelp" placeholder="Last Name"
name="lastname" required />
        </div>
        <div class="form-group d-flex">
          <input type="email" class="form-control custom-control1"
onblur="validate_email()" id="email" aria-describedby="emailHelp"
placeholder="Enter email" name="email" required />
          <input type="number" class="form-control custom-control1" id="number"
onblur="validate_mobile()" aria-describedby="emailHelp" placeholder="Enter Mobile"
name="mobile" required />
        </div>
        <div class="form-group d-flex">
          <input type="password" class="form-control custom-control1"
onblur="validate_password()" id="pass" aria-describedby="emailHelp"
placeholder="Enter Password" name="password" required />
          <input type="password" class="form-control custom-control1" id="cpass"
onblur="validate_confirm()" aria-describedby="emailHelp" placeholder="Enter
Password Again" name="cpassword" required />
        </div>
        <div class="form-group d-flex" id="referralId">
          <a class="ml-3" onclick="checkReferral()">Apply Referral code</a>
        </div>
      </form>
    </div>
  </div>
</div>

```

```

        <div class="form-group form-check">
            <input type="checkbox" class="form-check-input" id="exampleCheck1"
name="checkBox" required />
            <label class="form-check-label" for="exampleCheck1">Agree Terms and
conditions</label>
        </div>
        <button type="submit" name="registerSubmit" class="btn btn-primary button-
sub">
            Sign Up
        </button>
    </form>
</div>
</div>
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Referral</h5>
                <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <div class="modal-body">
                <div class="form-group">
                    <center> <label class="form-check-label mx-auto">Enter the referral code of
your friend</label></center>
                    <input type="text" class="form-control custom-control1"
onblur="referralCheck(this)" required />
                    <span id="WebsiteError" style="display: none;" class="mt-2 ml-2 pl-4 text-
danger"><i class="fa fa-exclamation-triangle" aria-hidden="true"></i></span>
                    <span id="websiteSuccess" style="display: none;" class="mt-2 ml-2 pl-4
text-success"><i class="fa fa-check" aria-hidden="true"></i>
                    </span>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-
dismiss="modal">Close</button>
            </div>
        </div>
    </div>
</div>
<!-- Modal End -->
<div class="ladyimg position-relative">

```



```

        
    </div>
</div>

<div class="background-login position-relative">
    
</div>
<script src="../../assets/scripts/bootstrap.min.js"></script>
<script src="../../assets/scripts/app.js"></script>
<!--Validation for first name and lastname-->
<script>
    const checkReferral = () => {
        $('#exampleModal').modal('show');
    }
    const referralCheck = (e) => {
        let referral = e.value;
        $('#WebsiteError').css('display', 'none');
        $('#websiteSuccess').css('display', 'none');
        if (referral !== "") {
            $.ajax({
                url: "/authentication.php",
                type: "POST",
                dataType: "json",
                data: {
                    referralId: referral
                },
                success: function(data, status) {
                    if (data.dataStatus === "true") {
                        referral=data.referraluserId;
                        $('#websiteSuccess').css('display', 'inline-block');
                        $('#referralId').html(`<a class="ml-3 text-success">Referral Applied</a>
<input type="hidden" name="referralId" value="{referral}">`);
                    } else {
                        $('#WebsiteError').css('display', 'inline-block');
                    }
                }
            });
        }
    }

    function validate_name() {
        var name = document.forms["registerForm"]["firstname"];
        var pattern = /^[A-Za-z]+$/;
        if (name.value === "") {
            var error = "Please enter first name";

```

```

        document.getElementById("firstname").placeholder = error;
        document.getElementById("firstname").classList.add("custom-warning");
        name.focus();
        return false;
    } else if (name.value.match(pattern)) {
        document.getElementById("firstname").innerHTML = "";
        document.registerForm.lastname.focus();
        return true;
    } else {
        var error = "Invalid Name";
        document.getElementById("firstname").value = "";
        document.getElementById("firstname").placeholder = error;
        name.focus();
        return false;
    }
}

```

```

function validate_lname() {
    var name = document.forms["registerForm"]["lastname"];
    var pattern = /^[A-Za-z]+$;/
    if (name.value == "") {
        var error = "Please enter last name";
        document.getElementById("lastname").placeholder = error;
        document.getElementById("lastname").classList.add("custom-warning");
        name.focus();
        return false;
    } else if (name.value.match(pattern)) {
        document.getElementById("lastname").innerHTML = "";
        document.registerForm.email.focus();
        return true;
    } else {
        var error = "Invalid Name";
        document.getElementById("lastname").value = "";
        document.getElementById("lastname").placeholder = error;
        name.focus();
        return false;
    }
}

```

//validation for email

```

function validate_email() {
    var gmail = document.forms["registerForm"]["email"];
    var pattern = /[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,3}$/;
    if (gmail.value == "") {
        var error = "Please enter your email";
        document.getElementById("email").placeholder = error;
        document.getElementById("email").classList.add("custom-warning");
        document.form.email.focus();
    }
}

```

```

        return false;
    } else if (gmail.value.match(pattern)) {
        document.getElementById("email").innerHTML = "";
        document.form.mobile.focus();
        return true;
    } else {
        document.getElementById("email").value = "";
        document.getElementById("email").placeholder = "Invalid email";
        document.form.email.focus();
        return false;
    }
}

//validation for phone
function validate_mobile() {
    var name = document.forms["registerForm"]["mobile"];
    var pattern = /^(?([1-9]{1}))?[-. ]?([0-9]{4})[-. ]?([0-9]{5})$/;
    if (name.value == "") {
        var error = "Please enter your mobile number";
        document.getElementById("number").placeholder = error;
        document.getElementById("number").classList.add("custom-warning");
        document.form.phone.focus();
        return false;
    } else if (name.value.match(pattern)) {
        document.getElementById("number").innerHTML = "";
        document.form.password.focus();
        return true;
    } else {
        document.getElementById("number").value = "";
        document.getElementById("number").placeholder = "Invalid mobile number";
        document.form.phone.focus();
        return false;
    }
}

//validation for password & confirm password

function validate_password() {
    var name = document.forms["registerForm"]["password"];
    var pattern = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}$/;
    if (name.value == "") {
        var error = "Please enter your password";
        document.getElementById("pass").placeholder = error;
        document.getElementById("pass").classList.add("custom-warning");
        document.form.password.focus();
        return false;
    } else if (name.value.match(pattern)) {
        document.getElementById("pass").innerHTML = "";

```

```
        document.form.cpassword.focus();
        return true;
    } else {
        document.getElementById("pass").value = "";
        document.getElementById("pass").placeholder = "Invalid password";
        document.form.password.focus();
        return false;
    }
}

function validate_confirm() {
    var name1 = document.forms["registerForm"]["password"];
    var name2 = document.forms["registerForm"]["cpassword"];

    if (name2.value == "") {
        var error = "Please enter password";
        document.getElementById("cpass").placeholder = error;
        document.getElementById("cpass").classList.add("custom-warning");
        document.form.cpassword.focus();
        return false;
    } else if (name1.value == name2.value) {
        document.getElementById("cpass").innerHTML = "";
        document.form.checkBox.focus();
        return true;
    } else {
        document.getElementById("cpass").value = "";
        document.getElementById("cpass").placeholder = "Password doesnot match";
        document.form.cpassword.focus();
        return false;
    }
}
</script>

</body>

</html>
<?php
}
?>
```

CDN code

```

Let
userId
=
UserId;

if (userId && WebsiteId) {
    var ajfnajnafnjaf=0;
    let current_domain = window.location.hostname;
    $.getScript("https://unpkg.com/browser@2.7.0/es5.js", function () {
        var result = browser.getParser(window.navigator.userAgent);
        $.getJSON("https://json.geoiplookup.io/?callback=?", function (data) {
            // //find average time spent on a website
            // var secondsSpentElement = document.getElementById("seconds-spent");
            // var millisecondsSpentElement = document.getElementById("milliseconds-
            spent");
            // (function () {
            //     "use strict";
            //     requestAnimationFrame(function updateTimeSpent() {
            //         var timeNow = performance.now();
            //         secondsSpentElement.value = round(timeNow / 1000);
            //         millisecondsSpentElement.value = round(timeNow);
            //         requestAnimationFrame(updateTimeSpent);
            //     });
            //     var performance = window.performance, round = Math.round;
            // })();
            // console.log(secondsSpentElement);
            // console.log(millisecondsSpentElement);
            //find width of device and look for user device type
            let deviceWidth = document.documentElement.clientWidth;
            let devicetype;
            if (deviceWidth <= 500) {
                devicetype = "mobile ";
            }
            else if (deviceWidth > 500 && deviceWidth <= 1000) {
                devicetype = "tablet";
            }
            else {
                devicetype = "Personal Computer";
            }
            $.ajax({
                url: "https://proanalysis.000webhostapp.com/server/serverMain.php",
                type: "POST",
                crossDomain: true,
                cors: true,
                // secure: true,
                // headers: {

```

```

//      'Access-Control-Allow-Origin': '*',
//      },
//  beforeSend: function (xhr) {
//      xhr.setRequestHeader ("Authorization", "Basic " + btoa(""));
//  },
dataType: "json",
data: {
    websiteid: WebsiteId,
    userid: UserId,
    browser_name: result.parsedResult.browser.name,
    browser_version: result.parsedResult.browser.version,
    osName: result.parsedResult.os.name,
    ipAddress: data.ip,
    country_name: data.country_name,
    continent: data.continent_name,
    timeZone: data.timezone_name,
    network_provider: data.asn_org,
    currentdomain: current_domain,
    devicetype: devicetype,
    region: data.region,
    latitude: data.latitude,
    longitude: data.longitude,
    dummy: "dummy"
},
success: function (data, status) {
    console.log("success");
    ajfnajnafnjaf=data.last_id;
},
error: function (responseData, textStatus, errorThrown) {
    console.log(responseData, textStatus, errorThrown);
}

});

});
//on close event
window.addEventListener('beforeunload', function (e) {
    e.preventDefault();
    e.returnValue = "";
    logout();
});
let logout = function () {
    $.getScript("https://unpkg.com/bowser@2.7.0/es5.js", function () {
        var result = bowser.getParser(window.navigator.userAgent);
        $.getJSON("https://json.geoiplookup.io/?callback=?", function (data) {
            // //find average time spent on a website

```

```

    // var secondsSpentElement = document.getElementById("seconds-spent");
    //   var millisecondsSpentElement = document.getElementById("milliseconds-
spent");
    // (function () {
    //   "use strict";
    //   requestAnimationFrame(function updateTimeSpent() {
    //     var timeNow = performance.now();
    //     secondsSpentElement.value = round(timeNow / 1000);
    //     millisecondsSpentElement.value = round(timeNow);
    //     requestAnimationFrame(updateTimeSpent);
    //   });
    //   var performance = window.performance, round = Math.round;
    // })();
    // console.log(secondsSpentElement);
    // console.log(millisecondsSpentElement);
    //find width of device and look for user device type
    let deviceWidth = document.documentElement.clientWidth;
    let devicetype;
    if (deviceWidth <= 500) {
      devicetype = "mobile ";
    }
    else if (deviceWidth > 500 && deviceWidth <= 1000) {
      devicetype = "tablet";
    }
    else {
      devicetype = "Personal Computer";
    }
    $.ajax({
      url: "https://proanalysis.000webhostapp.com/server/serverMain.php",
      type: "POST",
      crossDomain: true,
      cors: true,
      // secure: true,
      //   headers: {
      //     'Access-Control-Allow-Origin': '*',
      //   },
      //   beforeSend: function (xhr) {
      //     xhr.setRequestHeader ("Authorization", "Basic " + btoa(""));
      //   },
      dataType: "json",
      data: {
        ValidateData: ajfnajnafnjaf,
        websiteid: WebsiteId,
        userid: UserId,
        browser_name: result.parsedResult.browser.name,
        browser_version: result.parsedResult.browser.version,
        osName: result.parsedResult.os_name,

```

```

        ipAddress: data.ip,
        country_name: data.country_name,
        continent: data.continent_name,
        timeZone: data.timezone_name,
        network_provider: data.asn_org,
        currentdomain: current_domain,
        devicetype: devicetype,
        region: data.region,
        latitude: data.latitude,
        longitude: data.longitude,
    },
    success: function (data, status) {
        console.log(data.last_id);
    },
    error: function (responseData, textStatus, errorThrown) {
        console.log(responseData, textStatus, errorThrown);
    }
});

});
});
}
//on close event ends

}

```

Dashboard Html

```

<?php
    session_start();
    include('cred/dbConnect.php');
    if (isset($_SESSION["proAnalysisSession"]) != session_id()) {
        header("Location: auth/");
        die();
    } else {
        $fetchAverageCount="SELECT * from tbl_data where data_created_at >
current_date - interval 7 day";
        $fetchAverageCountRes=mysqli_query($connect,$fetchAverageCount);
        $fetchAverageCountResC=mysqli_num_rows($fetchAverageCountRes);
        $average=$fetchAverageCountResC/7;
    ?>
    <!DOCTYPE html>
    <html>

    <head>

```



```

<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<title>Pro Analysis | Dashboard</title>
<link rel="icon" type="image/png" sizes="16x16" href="/assets/vectors/Logo.svg"
/>
<style>
  #map {
    height: 100%;
    width: 100%;
  }

  .barchart button {
    background-color: #4CAF50;
    color: white;
    padding: 2px 5px;
    margin: 1px 0;
    border: none;
    cursor: pointer;
  }
</style>

<script src="https://code.jquery.com/jquery-3.6.0.js" integrity="sha256-
H+K7U5CnX11h5yWQfKtSj8PCmoN9aaq30gDh27Xc0jk="
crossorigin="anonymous"></script>

<script src="/assets/scripts/heatmap.js"></script>

<!-- Bootstrap CSS CDN -->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css"
integrity="sha384-
9gVQ4dYFwwWSjIDZnLEWnCjeSWFphJiWGPXr1jddIhOegiu1FwO5qRGvFXOdJZ
4" crossorigin="anonymous" />
<!-- Our Custom CSS -->
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/uikit/3.0.2/css/uikit.min.css">
<link rel="stylesheet"
href="https://cdn.datatables.net/1.11.3/css/dataTables.uikit.min.css">
<link rel="stylesheet" href="/assets/css/dashboardstyle.css" />
<!-- Font Awesome JS -->
<script defer src="https://use.fontawesome.com/releases/v5.0.13/js/solid.js"
integrity="sha384-
tzzSw1/Vo+0N5UhStP3bvwWPq+uvzCMfrN1fEFe+xBmv1C/AtVX5K0uZtmcHitFZ"
crossorigin="anonymous"></script>
<script defer
src="https://use.fontawesome.com/releases/v5.0.13/js/fontawesome.js"

```

```

integrity="sha384-
6OIrr52G08NpOFSZdxxz1xdNSndID4vdcf/q2myIUVO0VsqaGHJsB0RaBE01VTOY"
crossorigin="anonymous"></script>
<style>

</style>

<!-- <script async defer
src="https://maps.googleapis.com/maps/api/js?key=AIzaSyAvtz1GjcbeOzhVK9Q09SQ
Xcicu8pi--_o&callback=initMap"></script> -->

</head>
<body onload="logout()">
<div class="wrapper">
<!-- Sidebar -->
<?php include('layout/dashBoardHead.php'); ?>

<!-- Page Content -->
<div id="content">
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<button type="button" id="sidebarCollapse" class="btn btnInfo">
<i class="fas fa-align-left"></i>
<span></span>
</button>
<button class="btn btn-dark d-inline-block d-lg-none ml-auto"
type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle
navigation">
<i class="fas fa-align-justify"></i>
</button>

<div class="collapse navbar-collapse" id="navbarSupportedContent">
<ul class="nav navbar-nav ml-auto">
<li class="nav-item active">
<a class="nav-link" href="#"><?php echo
ucwords($_SESSION['userName']); ?> <i class="fas fa-user-circle"></i></a>
</li>
<li class="nav-item">
<a class="nav-link" href="./auth/logoutController.php">Logout <i
class="fas fa-sign-out-alt"></i></a>
</li>
</ul>
</div>
</div>
</nav>

```

```

<!--Main content-->
<div class="welcome-msg pt-1 pb-4">
  <?php
    date_default_timezone_set('Asia/Calcutta');
    // 24-hour format of an hour without leading zeros (0 through 23)
    $Hour = date('G');

    if ($Hour >= 5 && $Hour <= 11) {
      echo "<h3 id='greetingMessage'>Good Morning <span class='text-
primary'>" . ucwords($_SESSION['userName']) . "</span>, Welcome Back</h3>";
    } else if ($Hour >= 12 && $Hour <= 18) {
      echo "<h3 id='greetingMessage'>Good Afternoon <span class='text-
primary'>" . ucwords($_SESSION['userName']) . "</span>, Welcome Back</h3>";
    } else if ($Hour >= 19 || $Hour <= 4) {
      echo "<h3 id='greetingMessage'>Good Evening <span class='text-
primary'>" . ucwords($_SESSION['userName']) . "</span>, Welcome Back</h3>";
    }
  ?>
</div>
<div class="dashboardContent">
  <div class="heading-content">
    <!--Each small box-->
    <div class="dash-box d-flex" data-tilt>
      <div class="content-text">
        <div class="dailyCount" id="dailyCount"></div>Daily Views
      </div>
      <div class="icon-container ml-2 mt-3 text-secondary">
        <i class="fas fa-eye fa-3x"></i>
      </div>
    </div>
    <!--Each small box-->
    <div class="dash-box d-flex" data-tilt>
      <div class="content-text">
        <div class="dailyCount" id="websiteCount"></div>No of Website
      </div>
      <div class="icon-container ml-2 mt-3 text-secondary">
        <i class="fas fa-briefcase fa-3x"></i>
      </div>
    </div>
    <!--Each small box-->
    <div class="dash-box d-flex" data-tilt>
      <div class="content-text">
        <div class="dailyCount" id="total_count"></div>Total Views
      </div>
      <div class="icon-container ml-2 mt-3 text-secondary">
        <i class="fas fa-eye fa-3x"></i>
      </div>
    </div>
  </div>

```

```

        </div>
        <!--Each small box-->
        <div class="dash-box d-flex" data-tilt>
            <div class="content-text">
                <div class="dailyCount"><?php echo round($average)
?></div>Average Views
            </div>
            <div class="icon-container ml-2 mt-3 text-secondary">
                <i class="fas fa-eye fa-3x"></i>
            </div>
        </div>
    </div>
    <!--end of small box-->
    <!--charts-->
    <div class="chart-main-container">
        <div class="chartContainer">
            <canvas id="myChart"></canvas>
        </div>
        <div class="barchart">
            <button onclick="toggleHeatmap()">Toggle Heatmap</button>
            <button onclick="changeGradient()">Change gradient</button>
            <button onclick="changeRadius()">Change radius</button>
            <button onclick="changeOpacity()">Change opacity</button>
            <div id="map"></div>
        </div>

        </div>
    </div>
    <!--end charts-->
    <!--data tables -->
    <div id="AllDataFeilds" class="tableContainer">

    </div>

    <!--data table end-->
    </div>
</div>
<!-- char js CDN - Full-->
<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>

<!-- jQuery CDN - Full-->
<!-- Popper.JS -->

```

```

<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js"
integrity="sha384-
cs/chFZiN24E4KMATLdqvsezGxaGsi4hLGOzlXwp5UZB1LY//20VyM2taTB4QvJ"
crossorigin="anonymous"></script>
<!-- Bootstrap JS -->
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js"
integrity="sha384-
uefMccjFJAIV6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7buKt/6v9KI65qnm"
crossorigin="anonymous"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/tilt.js/1.2.1/tilt.jquery.js"></script>

<!-- data table CDN - Full-->
<script
src="https://cdn.datatables.net/1.10.20/js/jquery.dataTables.min.js"></script>
<script
src="https://cdn.datatables.net/1.10.20/js/dataTables.bootstrap4.min.js"></script>
<script
src="https://cdn.datatables.net/1.10.20/css/dataTables.bootstrap4.min.css"></script>

<script type="text/javascript">
$(document).ready(function() {
    $('#exampleTable').DataTable();
});
let websiteStatus = false;
$(document).ready(function() {
    $('#sidebarCollapse').on("click", function() {
        $('#sidebar').toggleClass("active");
    });
});

//script for hiding salutation message
setTimeout(changeGreeting, 4000);

function changeGreeting() {
    document.getElementById('greetingMessage').innerHTML = "<i class='mdi mdi-view-dashboard'></i> Dashboard";
}
/* Data points defined as an array of LatLng objects */
</script>
<script src="/ajaxRequest.js"></script>
<script src="/assets/scripts/chart.js"></script>

```

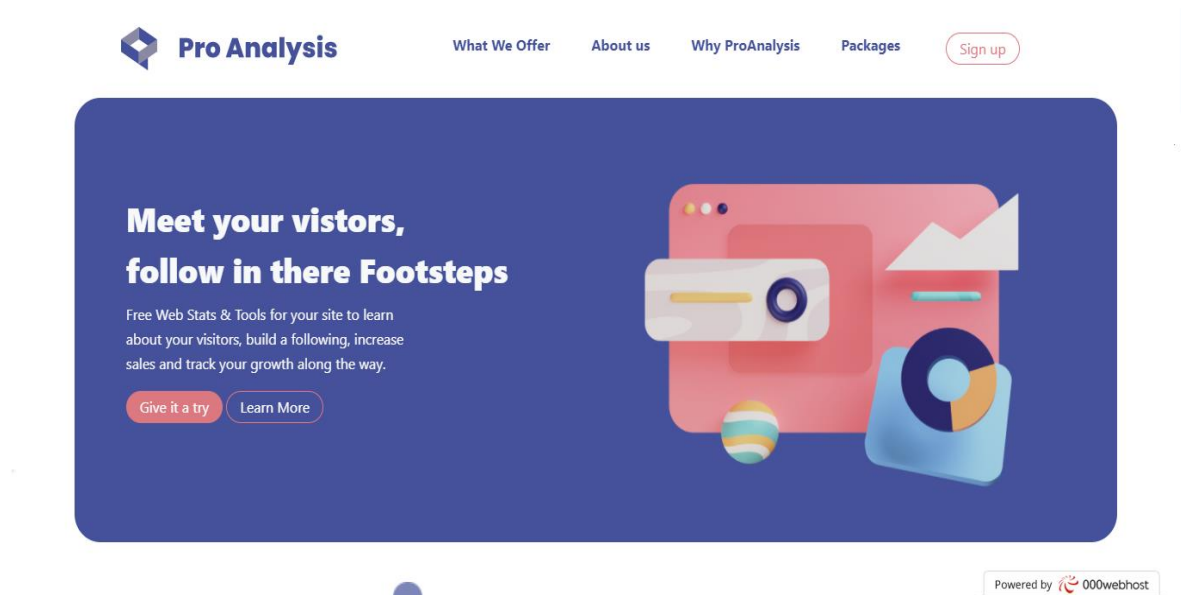
```
<script async defer
src="https://maps.googleapis.com/maps/api/js?signed_in=true&libraries=visualization&
callback=initMap">
</script>
<script type="text/javascript">
    function logout() {
        console.log("logout");
    }

</script>
</body>

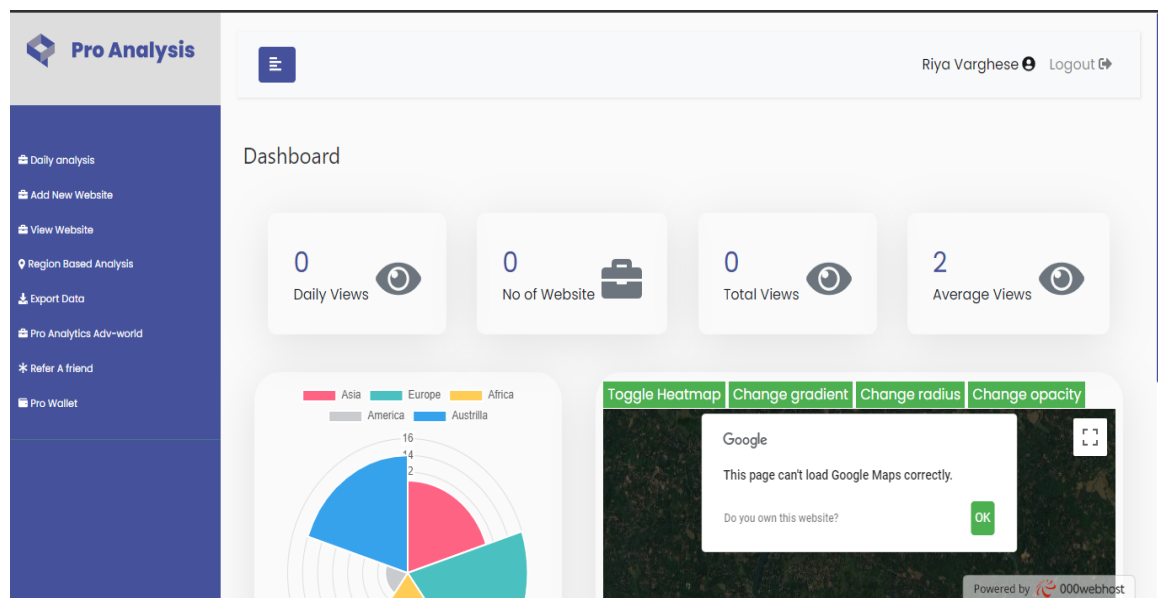
</html>
<?php
}
?>
```

9.1 Screen Shots


Landing page




Dashboard





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