

"Bricano "

A MAJOR PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF

DIPLOMA (Computer Science & Engineering)

SUBMITTED TO

DR. B.R. AMBEDKAR POLYTECHNIC COLLEGE GWALIOR (M.P)

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Session 2022-23

CERTIFICATE

This is to certify that Ankit Prajapati , Yash Gupta , Naman Garg student of the final year working has satisfactorily completed the major project titled

“Bricano A Contractor Application”

toward the partial fulfillment of the diploma in Computer Science and Engineering awarded by Dr. Bhimrao Ambedkar Polytechnic College, Gwalior for the academic year 2021 - 23.

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Signature of Students

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Yash Gupta _____

Naman Garg _____

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Introduction

Certainly! Here's an introduction paragraph for Bricano, a Contractor Application software company:

"Welcome to Bricano, your trusted partner in revolutionizing the way contractors manage their businesses. As a leading provider of innovative contractor application software, we understand the unique challenges faced by contractors in today's fast-paced and competitive industry. Our cutting-edge technology is designed to streamline processes, enhance efficiency, and empower contractors to take their businesses to new heights. With a user-friendly interface, robust features, and seamless integration, Bricano offers a comprehensive solution that simplifies project management, resource allocation, scheduling, invoicing, and more. Whether you're a small-scale contractor or a large enterprise, Bricano is here to empower you with the tools and insights you need to succeed in the ever-evolving construction landscape. Join us today and experience the transformative power of Bricano for your contracting business."

PROJECT DETAIL

Introducing Bricano: Your Trusted Contractor Application

At Bricano, we pride ourselves on being the leading contractor application in the industry, revolutionizing the way companies manage their projects and collaborate with contractors. Our cutting-edge platform is designed to streamline the entire contractor management process, providing a seamless and efficient experience for businesses of all sizes.

With Bricano, we understand the challenges that come with managing multiple contractors, coordinating schedules, and ensuring timely project completion. That's why our platform offers a comprehensive suite of features that empower companies to optimize their contractor management, enhance productivity, and achieve project success.

Our contractor application provides a centralized hub where companies can easily connect with a network of skilled and vetted contractors. Whether you're in need of construction professionals, electricians, plumbers, or any other specialized trade, Bricano has you covered. We have curated a diverse pool of contractors with proven expertise and track records, saving you time and effort in finding the right professionals for your projects.

One of the key strengths of Bricano is our robust project management tools. Our platform allows you to create and assign tasks, set project milestones, and track progress in real-time. Communication is made effortless with built-in messaging and collaboration features, ensuring seamless coordination between your team and contractors. You can also access project

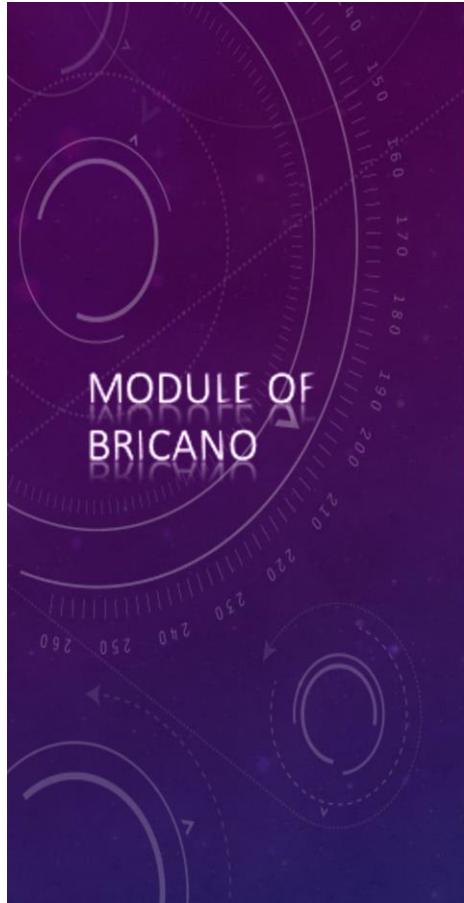
documents, drawings, and specifications in one centralized location, eliminating the need for scattered emails or physical paperwork.

At Bricano, we prioritize transparency and accountability. Our platform enables companies to monitor contractor performance, review ratings and reviews from past clients, and make informed decisions when selecting contractors for future projects. We believe that trust is essential in contractor relationships, and our platform fosters a trustworthy and reliable community of professionals.

We understand that every company has unique requirements, which is why Bricano is highly customizable to fit your specific needs. Whether you're a small business or a large enterprise, our platform scales effortlessly to accommodate your growing contractor network and evolving project demands.

Join the growing community of companies that trust Bricano to streamline their contractor management. Experience the convenience, efficiency, and peace of mind that comes with our powerful contractor application. With Bricano by your side, you can focus on what matters most—delivering exceptional projects and driving business growth.

Welcome to Bricano, where contractor management meets excellence.



SYSTEM REQUIREMENT

HARDWARE / SOFTWARE REQUIREMENT

USER'S:

- NETWORK : ACTIVE INTERNET CONNECTION

TECHNOLOGY USED:

- FRONT END : XML , JAVA
- BACK END : PHP ,MYSQL.

DEVELOPER'S: **ANDROID STUDIO**

Feasibility Study

Feasibility studies are crucial during the early development of any project and form a vital component in the development process. A feasibility study is a management-oriented activity. It is a test of system proposal according to its workability, impact on the organization, ability to meet user needs and effective use of resources. A feasibility study is conducted to select the best system that meets performance requirement.

The key considerations in feasibility analysis are as follows:

Economic Feasibility

Technical Feasibility

Behavioral Feasibility

Economic feasibility:

It looks at the financial aspects of the project. It determines whether the management has enough resources and budget to invest in the proposed system and the estimated time for the recovery of cost incurred. Economic feasibility is determined by the means of cost benefit analysis. The proposed system is economically feasible because the cost involved in purchasing the hardware and the software are within approach.

SYSTEM DESIGN

SYSTEM ANALYSIS

System analysis is an in-depth of the end user information needs that produces functional requirements that are used as the basic for the design of the new system.

System analysis traditionally involves detailed study of:-

- The information needs of the organization and end users like you.
- The activities, resources, and outputs of the present system in a familiar manner.
- The system capability requires to meet your information Need, and those of others staff member of the organization.

Design

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”.

LOGICAL DESIGN :-

The logical flow of a system and define the boundaries of a system. It includes the following steps:

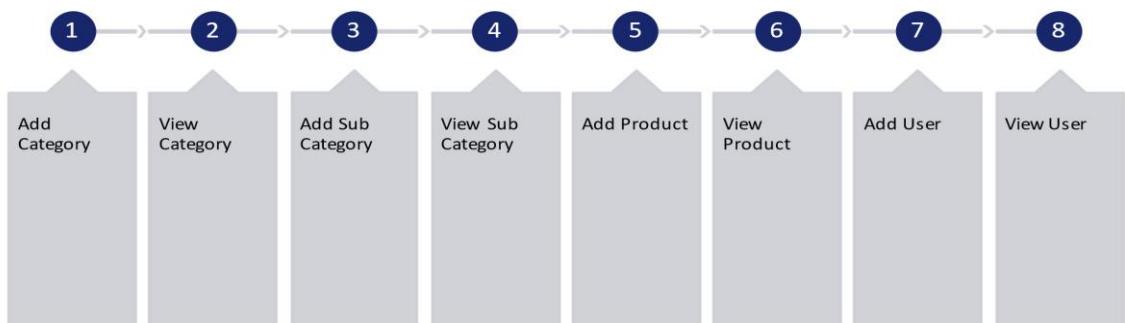
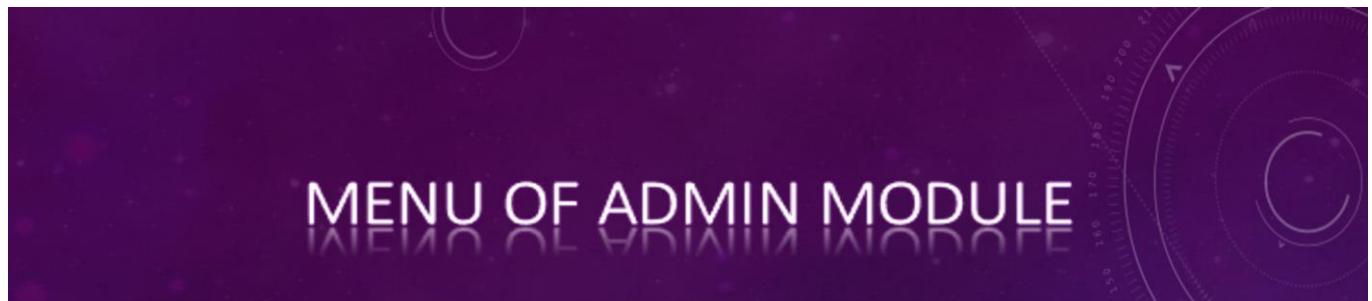
- Reviews the current physical system – its data flows, file content, volumes, Frequencies etc.
- Prepares output specifications – that is, determines the format, content and Frequency of reports.
- Prepares input specifications – format, content and most of the input functions.
- Prepares edit, security and control specifications.
- Specifies the implementation plan.
- Prepares a logical design walk through of the information flow, output, input, Controls and implementation plan.
- Reviews benefits, costs, target dates and system constraints.

PHYSICAL DESIGN :-

Physical system produces the working systems by define the design specifications that tell the programmers exactly what the candidate system must do. It includes the following steps.

- Design the physical system.
- Specify input and output media.
- Design the database and specify backup procedures.

- Design physical information flow through the system and a physical design.
- Plan system implementation.
- Prepare a conversion schedule and target date



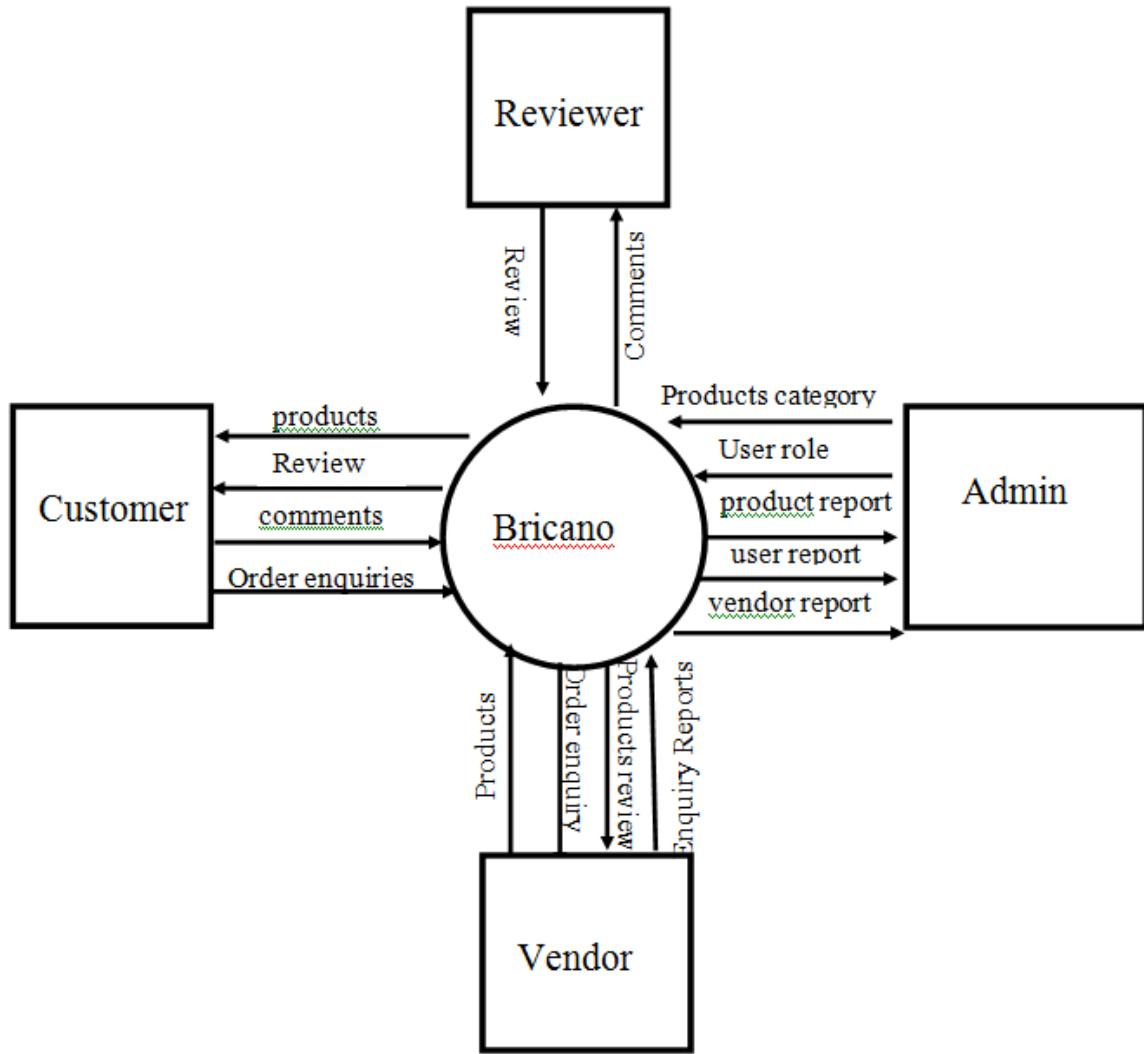
Data Flow Diagram:-

Data Flow Diagram (DFD) is a graphical technique that depicts information flow and transfers that are applied as data moves from input to output. The DFD is also known as Data flow graph or a bubble chart. The data flow diagram may be used to represent a system or

software at any level of abstraction. In fact, DFD's may be partitioned into levels that represent increasing information and functional detail.

The basic notation to create a DFD is:

- A rectangle is used to represent an external entity, that is, a system element (e.g. hardware, person and another program) or another
- System that produces information for transformation by the software or receives information produced by the software.
- A circle represents a process or transform that is applied to data (or control) and changes it in some way.
- An arrow represents one or more data items.
- An open rectangle represents data store –stored information that is used by the software, i.e. temporary repository of data.

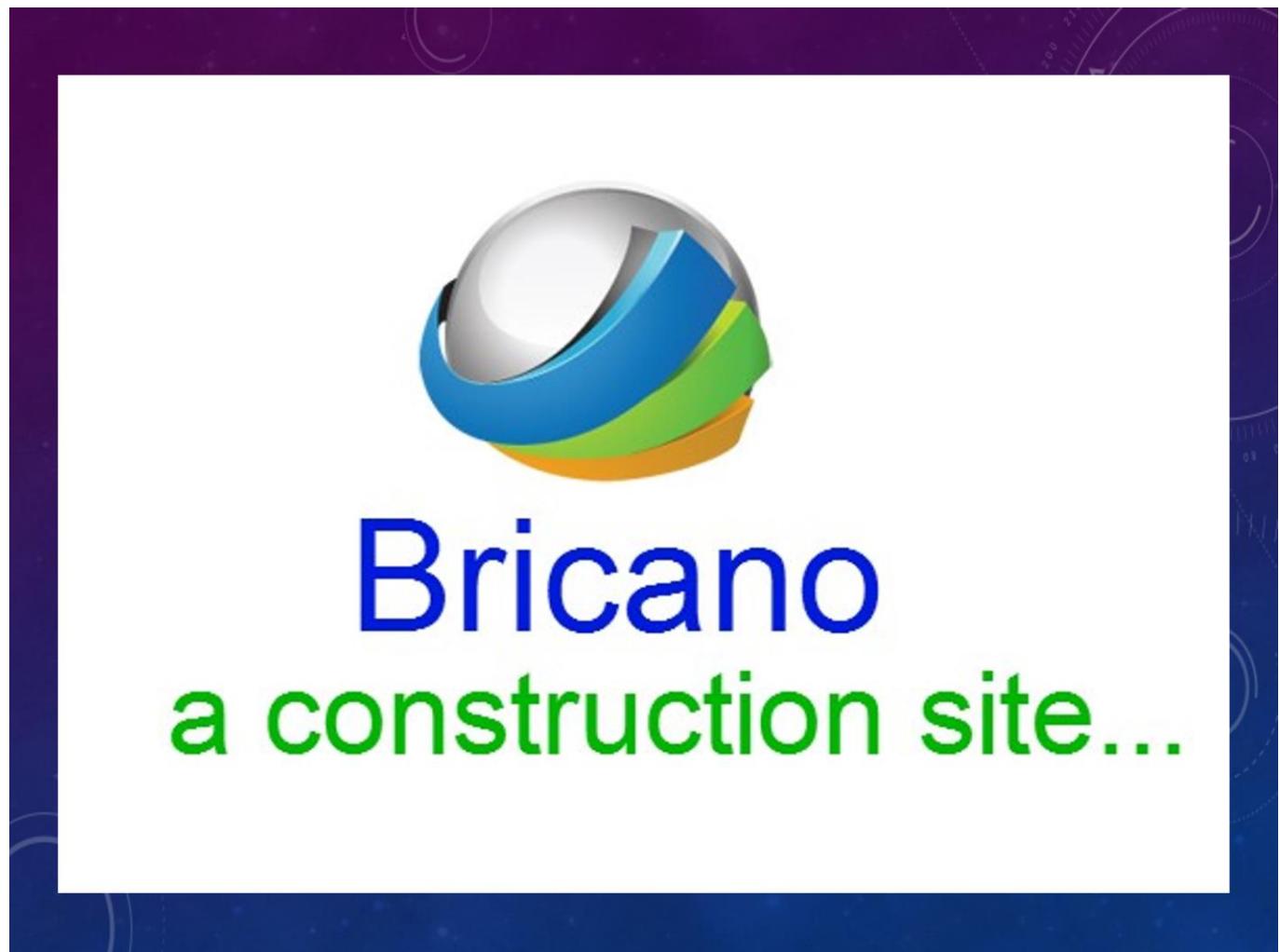


E-R DIAGRAM

In this model objects of similar structures are collected into an entity set. The relationship between entity sets is represented by a named E-R relationship and is 1:1(one to one), 1: N (one to many) or M: N (many to many) mapping from one entity set to another. The database structures, employing the E-R model is usually shown pictorially using entity relationship (E-R) diagrams. The E-R diagrams are useful in representing the relationship among entities. The following terms used in E-R Diagram

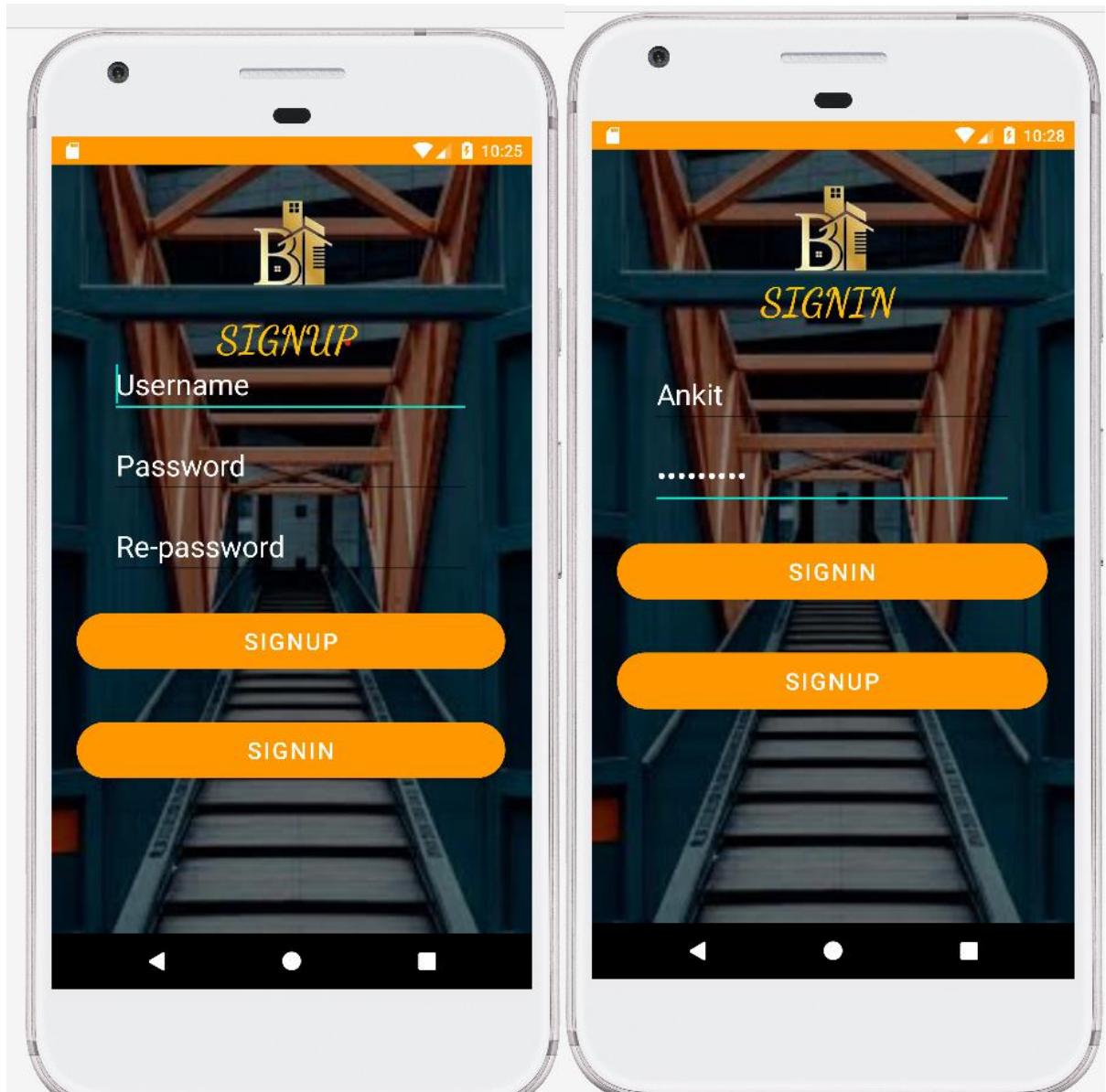
INPUT/OUTPUT SCREEN (WEB PAGES)

Welcome to Bricano

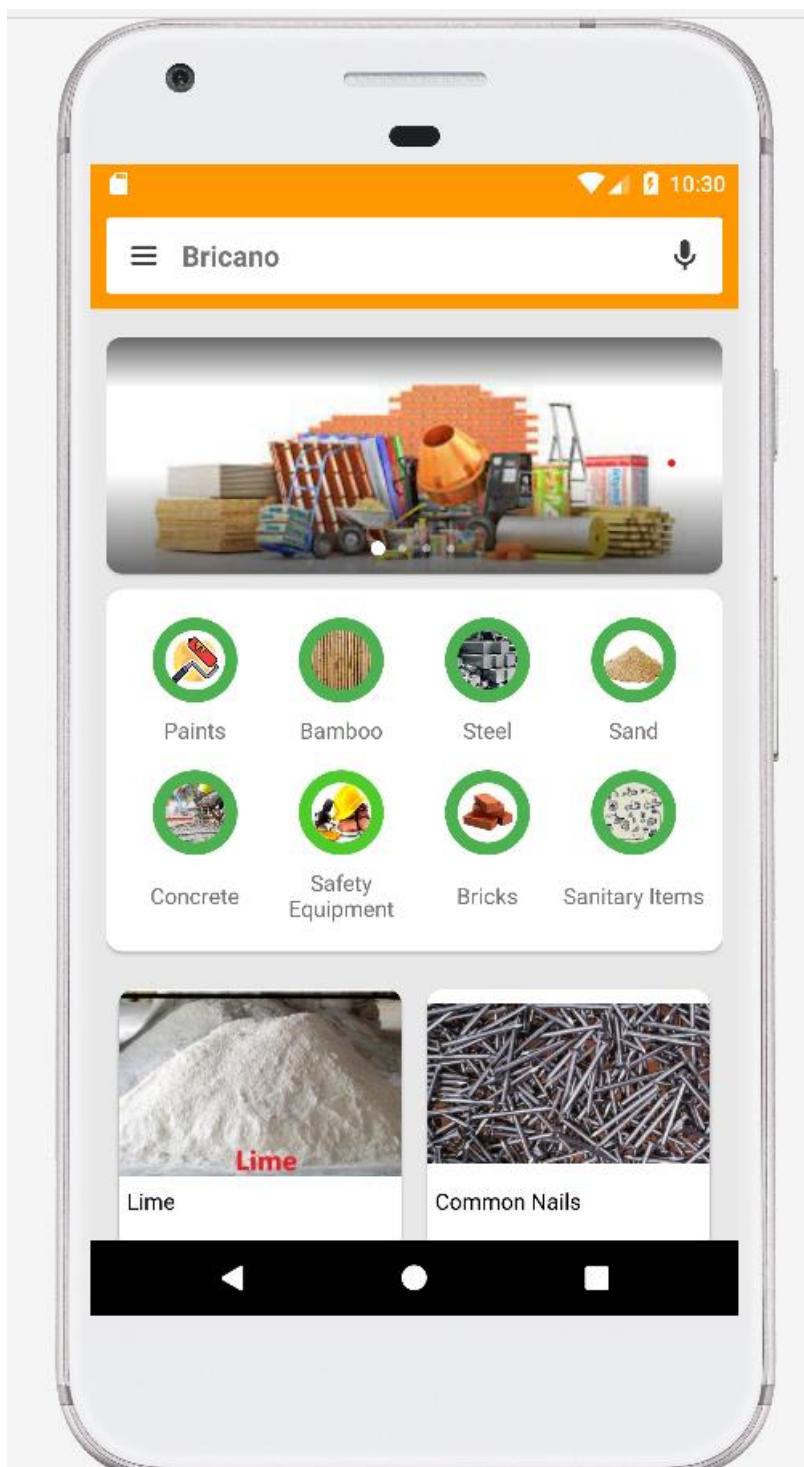


Users

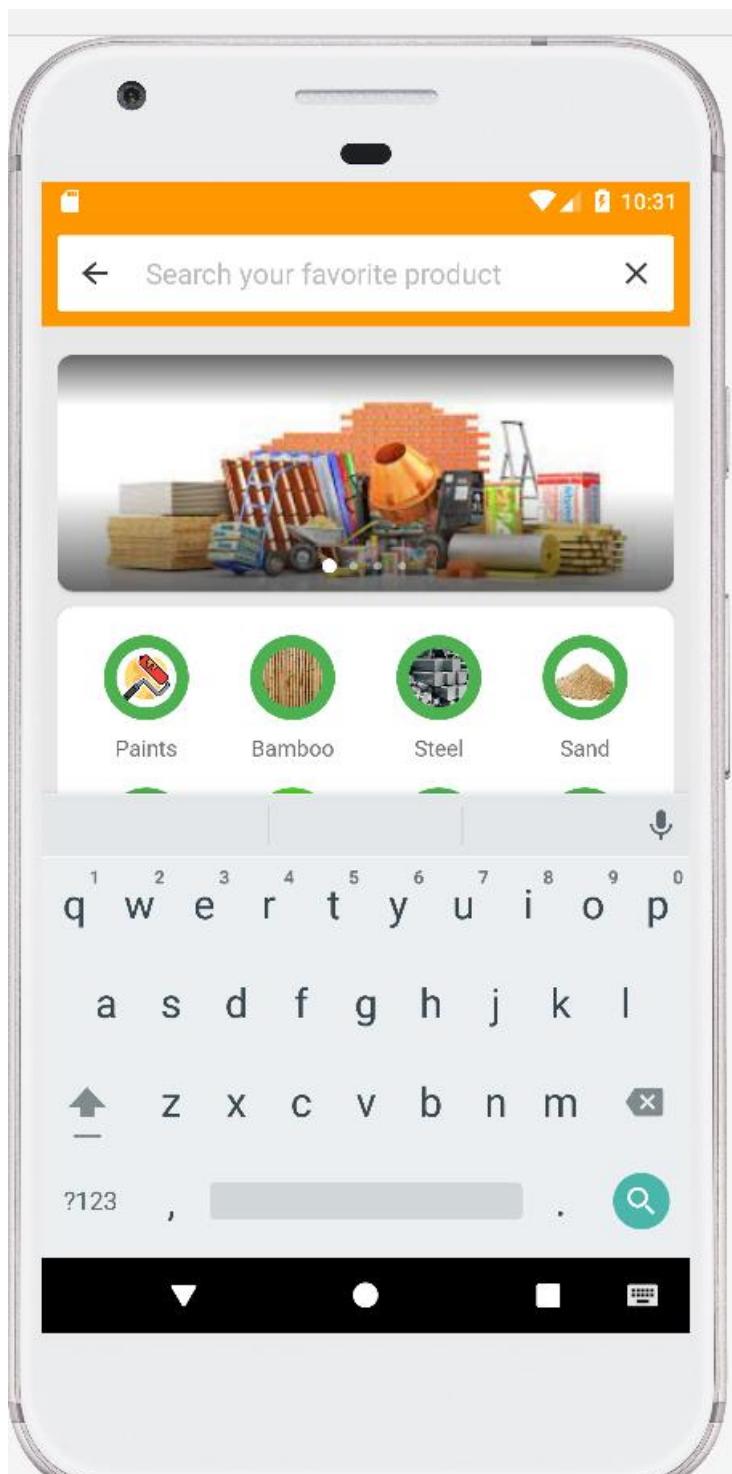
(i) Getting Started And Show Login And Signup Page



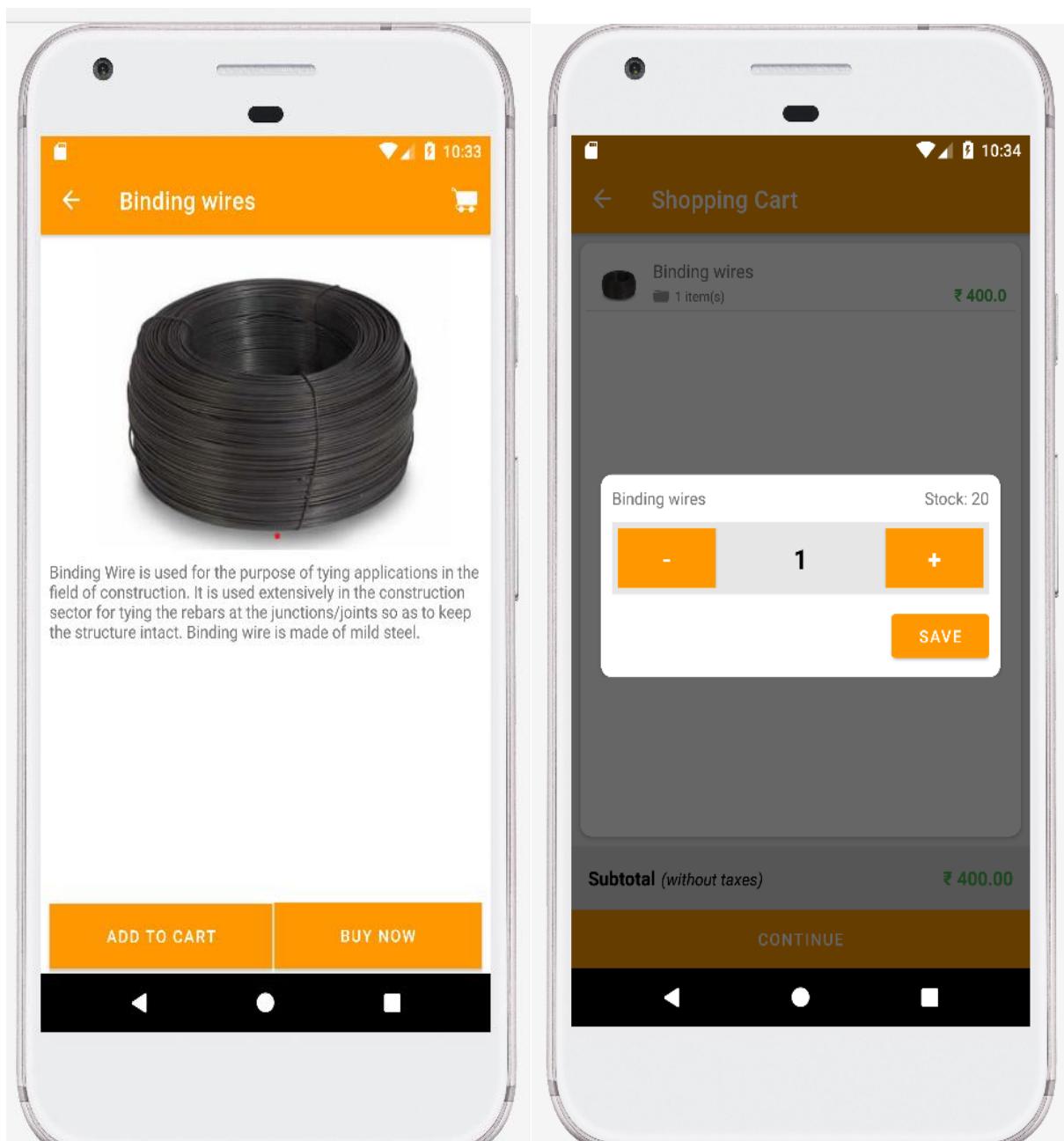
(ii) Home page in Software



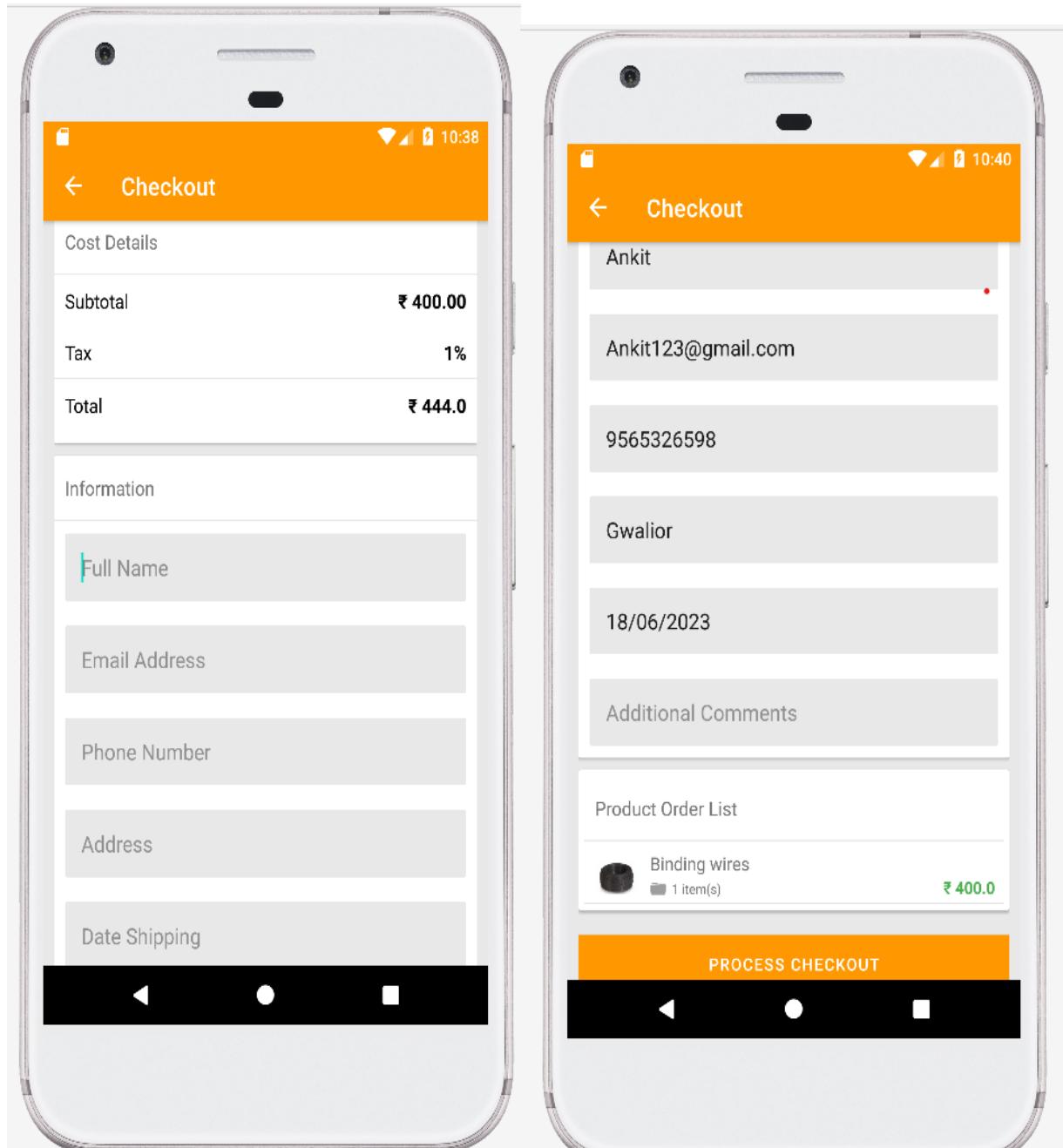
(ii) Searching box to search any Product



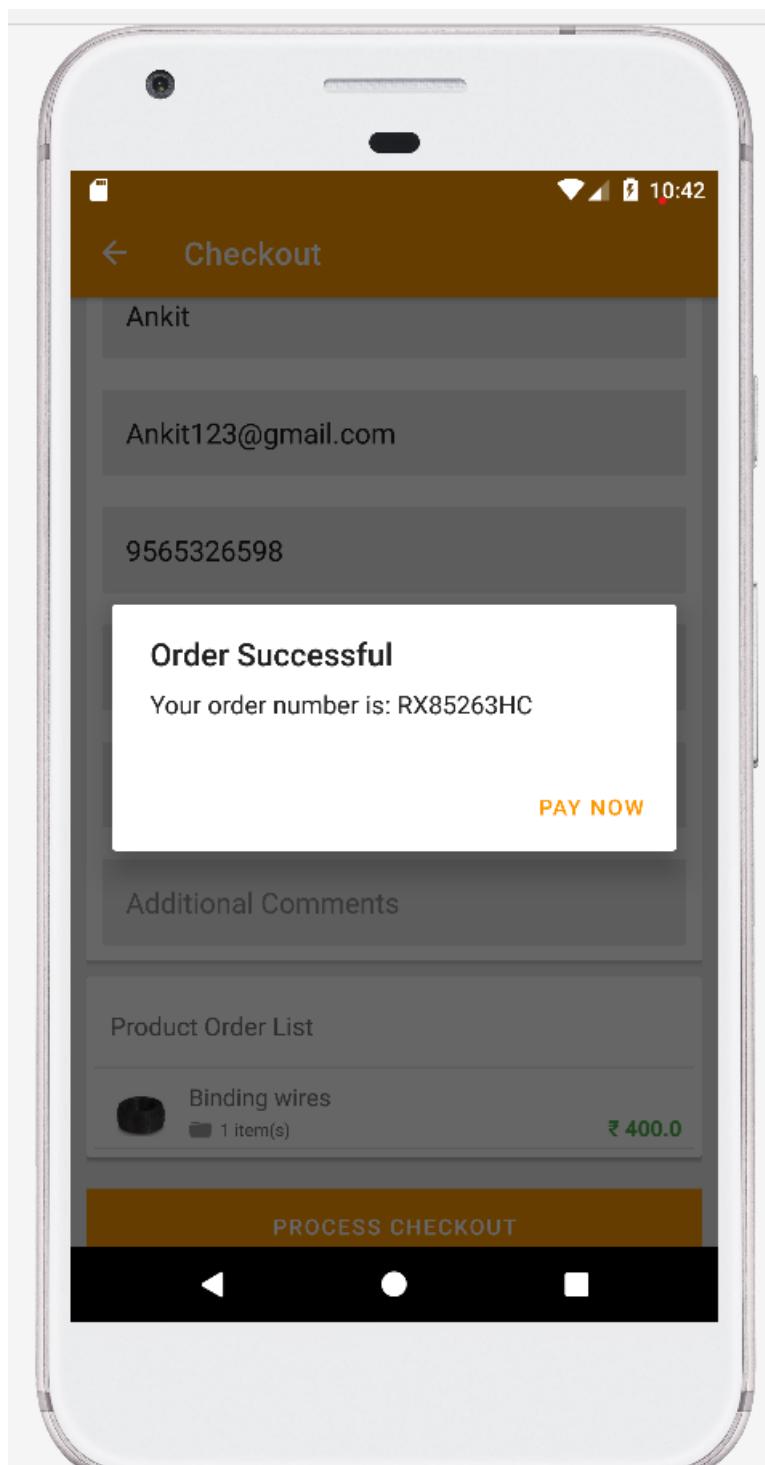
(iv) Buy any product and add the product



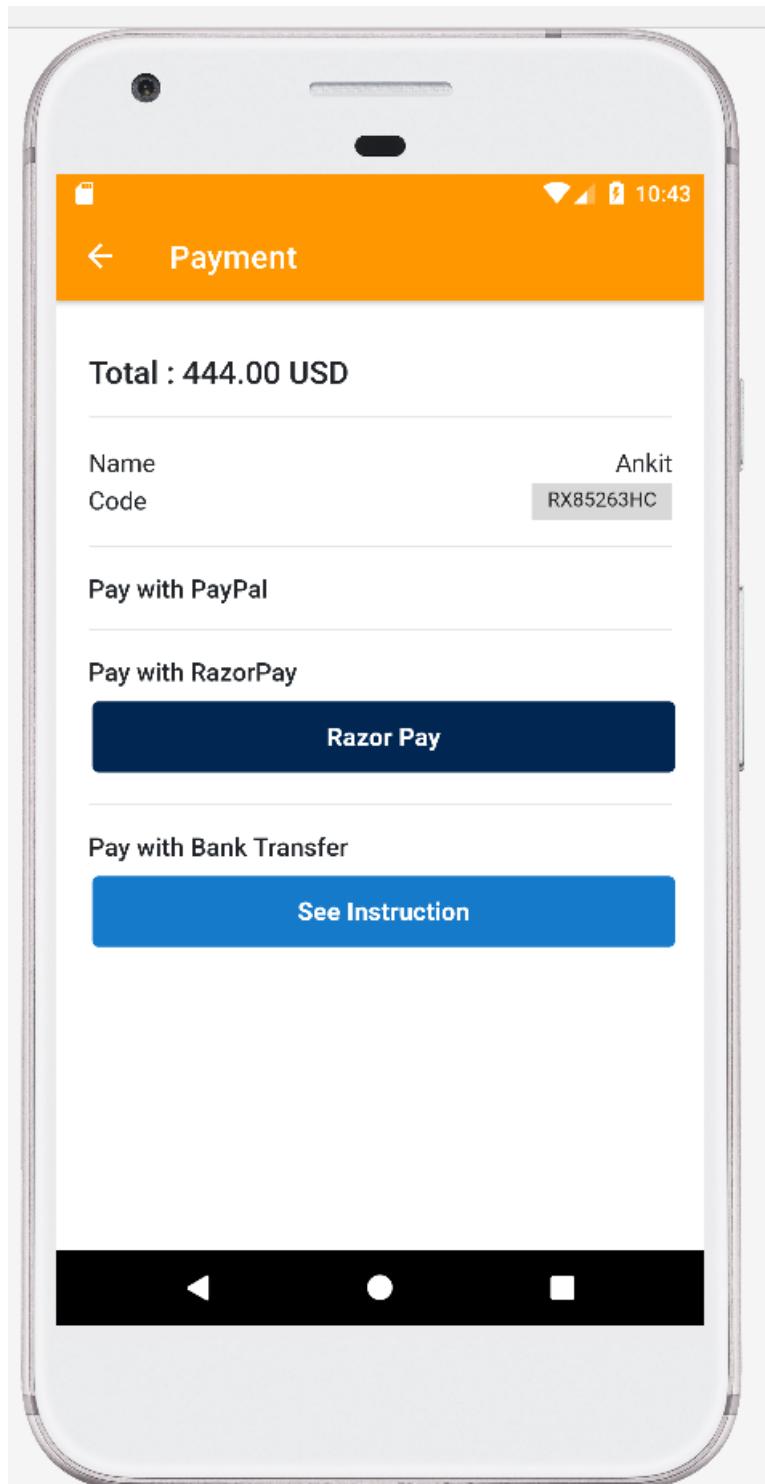
(v) Fill the user Information like Name , Phone Number , address any other information.



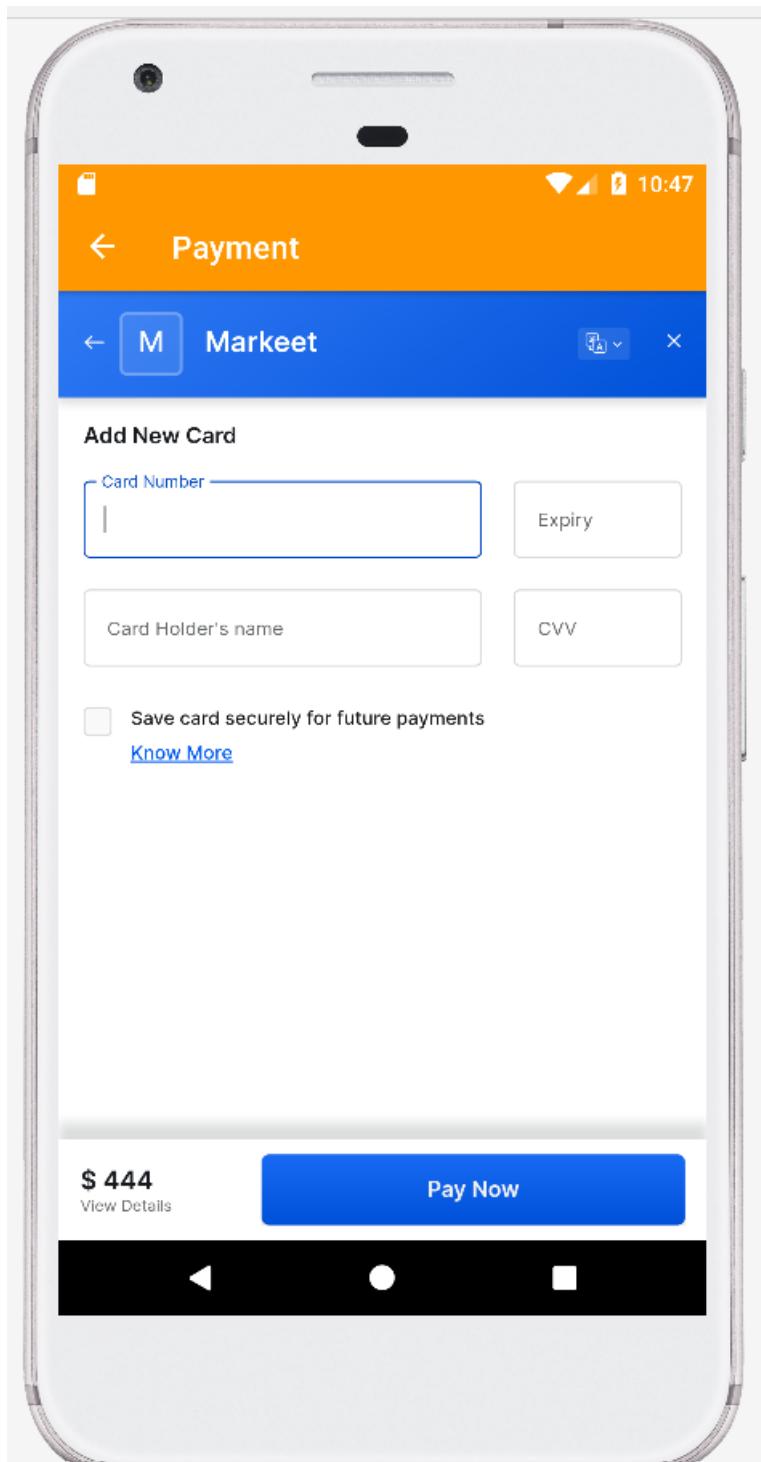
(vi) Provide order pay unique number



(vii)Complete the order purchases and pay the Payment

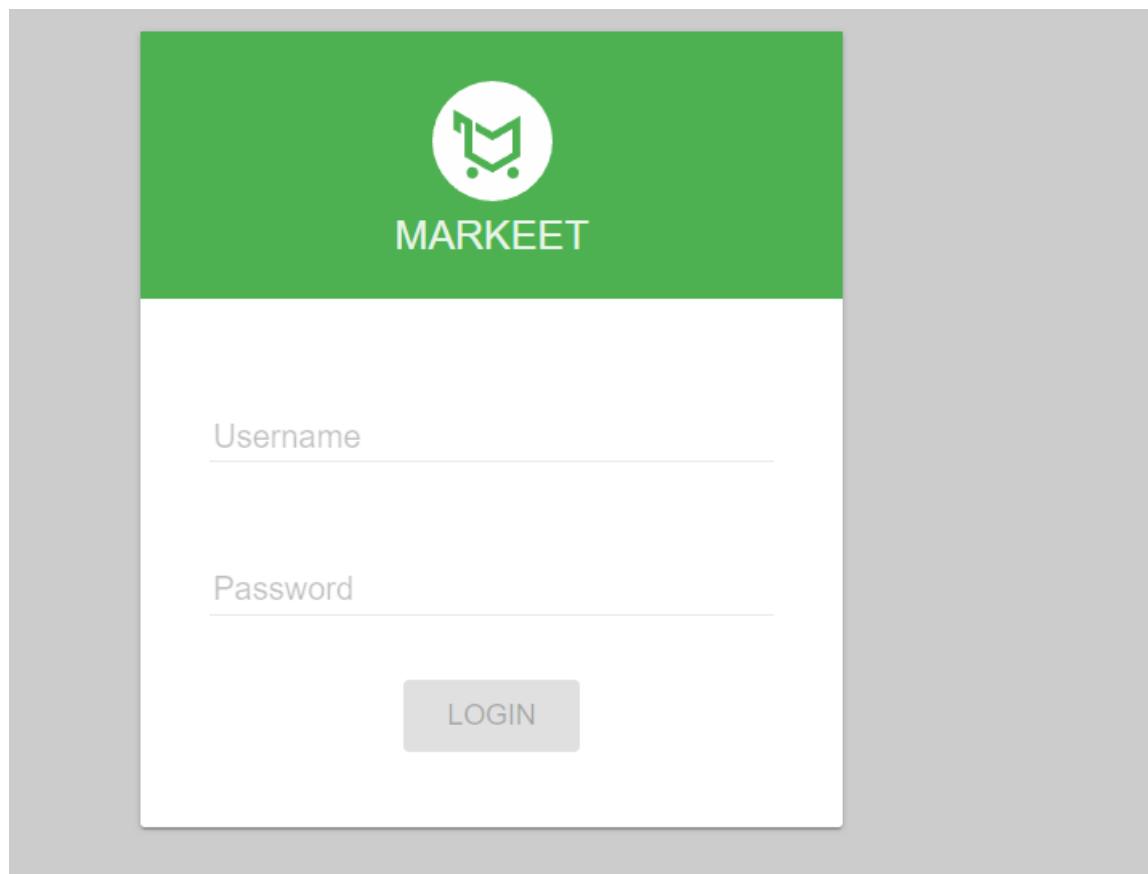


(viii) Fill Card detail information after Successful order purchases



Admin

(i) First Admin Login



(ii) Admin control page

The image displays the admin control panel dashboard. On the left is a sidebar with a user profile icon and the name "Bricano Anki@.com". Below the profile are ten menu items with corresponding icons: DASHBOARD, ORDER LIST, PRODUCT, CATEGORY, NEWS INFO, APP, NOTIFICATION, SHIPPING, SETTING, and ABOUT. The main content area has a green header bar with the text "Dashboard". Below the header are several data tables and summary sections.

Product Order	
Waiting	: 12
Processed	: 0
Total Order	: 12

Product Information	
Published	: 0
Draft	: 10
Ready Stock	: 10
Out of Stock	: 0
Suspend	: 0

Category Information	
Published	: 8
Draft	: 0

News Info	
Featured	: 3 (max 5)
Published	: 3
Draft	: 0

App Version	
Active	: 2
Inactive	: 0

(iii) Add Product

Product								
		All Category		20 items		Time : New to Old		
No	Name	Type	Price	Disc	Stock	Status	Update	Action
1	Lime	DRAFT	499	11	22	READY STOCK	19 Apr 23	:
2	Common Nails	DRAFT	455	11	33	READY STOCK	19 Apr 23	:
3	Timber	DRAFT	234	11	43	READY STOCK	19 Apr 23	:
4	Concrete Block	DRAFT	399	11	21	READY STOCK	19 Apr 23	:
5	Aggregate	DRAFT	249	11	55	READY STOCK	19 Apr 23	:
6	Fly ash	DRAFT	300	11	20	READY STOCK	19 Apr 23	:
7	Binding wires	DRAFT	400	11	20	READY STOCK	19 Apr 23	:
8	Concrete	DRAFT	300	11	20	READY STOCK	19 Apr 23	:
9	Sand	DRAFT	350	11	7	READY STOCK	19 Apr 23	:
10	Cement	DRAFT	110	10	20	READY STOCK	19 Apr 23	:

Add Product

Product Name *	Price *	Stock *
Price Discount * (0 for no discount) 0	Product Status *	
Category *	<input type="checkbox"/> Paints <input type="checkbox"/> Bamboo <input type="checkbox"/> Steel <input type="checkbox"/> Sand <input type="checkbox"/> Concrete <input type="checkbox"/> Safety Equipment <input type="checkbox"/> Bricks <input type="checkbox"/> Sanitary Items	
<i>At least choose one category</i>		

(iv) Check order List

No	Buyer	From	Code	Total Fees	Payment	Created at	Status	Action
1	Ankit		BJ37740ZA	444		14 Jun 23	WAITING	⋮
2	Ankit		CX70080QA	444		14 Jun 23	WAITING	⋮
3	Ankit		RX85263HC	444		14 Jun 23	WAITING	⋮
4	Ankitxcxc		OC74312GT	996.78		29 May 23	WAITING	⋮
5			JF50343EN	553.89		17 May 23	WAITING	⋮
6	bhebhef		ED92416QT	444		17 May 23	WAITING	⋮
7	Ankit		DY94995YR	553.89		17 May 23	WAITING	⋮
8			PT77384RQ	553.89		16 May 23	WAITING	⋮
9	dnlm		WE08100XF	505.05		12 May 23	WAITING	⋮
10			LO02215MG	505.05		12 May 23	WAITING	⋮
11			ZR80917IP	276.39		19 Apr 23	WAITING	⋮
12			ZB36491VG	553.89		19 Apr 23	WAITING	⋮

TESTING & SYSTEM SECURITY

Test Strategy:-

A test strategy is an outline that describes the testing approach of the software development cycle. It is created to inform project managers, testers, and developers about some key issues of the testing process. This includes the testing objective, methods of testing new functions, total time and resources required for the project, and the testing environment.

Test strategies describe how the product risks of the stakeholders are mitigated at the test-level, which types of test are to be performed, and which entry and exit criteria apply. They are created based on development design documents. System design documents are primarily used and occasionally, conceptual design documents may be referred to. Design documents describe the functionality of the software to be enabled in the upcoming release. For every stage of development design, a corresponding test strategy should be created to test the new feature sets.

Test Strategy:

The types of testing that will be undertaken are:

White Box Testing

Unit testing

Functional testing

Black Box Testing

Integration testing

UNIT TESTING:-

is a software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use. Intuitively, one can view a unit as the smallest testable part of an application. In procedural programming, a unit

could be an entire module, but it is more commonly an individual function or procedure. In object-oriented programming, a unit is often an entire interface, such as a class, but could be an individual method.

FUNCTIONAL TESTING:-

Functional testing is a quality assurance (QA) process and a type of black box testing that bases its test cases on the specifications of the software component under test. Functions are tested by feeding them input and examining the output, and internal program structure is rarely considered. Functional testing usually describes *what* the system does. Functional testing does not imply that you are testing a function (method) of your module or class. Functional testing tests a slice of functionality of the whole system.

INTEGRATION TESTING:-

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. It occurs after unit testing and before validation testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests

defined in an integration [test plan](#) to those aggregates, and delivers as its output the integrated system ready for [system testing](#).

SYSTEM TESTING:-

System testing of software or hardware is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified [requirements](#). System testing falls within the scope of [black box testing](#), and as such, should require no knowledge of the inner design of the code or logic.

As a rule, system testing takes, as its input, all of the "integrated" software components that have passed [integration testing](#) and also the software system itself integrated with any applicable hardware system(s).

The purpose of integration testing is to detect any inconsistencies between the software units that are integrated together (called *assemblages*) or between any of the *assemblages* and the hardware.

CONCLUSION

In conclusion, the development of Bricano, a Contractor Application software, has been a significant milestone for our company. This software has revolutionized the way contractors manage their projects and streamline their operations.

Throughout the development process, we have focused on creating a user-friendly and efficient application that addresses the specific needs of contractors. Bricano offers a comprehensive range of features, including project management, document sharing, scheduling, and communication tools, all in one platform.

By leveraging the power of technology, Bricano has successfully transformed traditional contractor workflows, enabling seamless collaboration among team members, reducing manual paperwork, and improving overall project efficiency. Contractors can now easily track progress, manage tasks, and communicate with clients and subcontractors in real-time.

Furthermore, Bricano has demonstrated its potential to significantly improve productivity and profitability for contractors. With its intuitive interface and robust functionality, contractors can optimize their resource allocation, minimize delays, and enhance project delivery. The software's ability to generate accurate cost estimates

and track expenses has also proven invaluable for financial planning and budget management.

We take pride in the successful development and launch of Bricano, and we are confident that it will continue to empower contractors and revolutionize the construction industry. Our company remains committed to providing ongoing support, updates, and enhancements to ensure that Bricano remains at the forefront of innovation in the contractor software market.

With Bricano, contractors can embrace a digital transformation, enhance their competitiveness, and deliver exceptional results. We are excited about the positive impact Bricano will have on contractors and the construction industry as a whole, and we look forward to the continued success and growth of our company in this dynamic market.