An Approach on Bike E-Catalogue Mobile App for Yamaha Using Machine Learning Techniques

A PROJECT REPORT

Submitted by,

Mr. Hardik Yadav - 20201CEI0111
Mr. Shaik Maheer - 20201CEI0138
Mr. Varshitha A - 20201CEI0082
Mr. Sahith K - 20201CEI0005

Under the guidance of,
Dr. SASIDHAR BABU SUVANAM

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SCHOOL OF COMPUTER SCIENCE ENGINEERING

CERTIFICATE

This is to certify that the Project report "**An Approach on Bike E-Catalogue Mobile App for Yamaha Using Machine Learning Techniques**" being submitted by "Hardik Yadav, Shaik Maheer, Varshitha A, Sahith K" bearing roll numbers "20201CEI0111, 20201CEI0138, 20201CEI0082, 20201CEI0131" in partial fulfillment of requirement for the award of degree of **Bachelor of Technology in Computer Engineering [Artificial Intelligence & Machine Learning]** is a bonafide work carried out under my supervision.

Dr. SASIDHAR BABU SUVANAM	**Dr. GOPAL KRISHNA SHYAM**
Professor & Guide	Professor & HoD
School of CSE	School of CSE
Presidency University	Presidency University

Dr. C. KALAIARASAN	**Dr. SHAKKEERA L**	**DR. MD. SAMEERUDDIN KHAN**
Associate Dean	Associate Dean	Dean
School of CSE & IS	School of CSE & IS	School of CSE & IS
Presidency University	Presidency University	Presidency University

SCHOOL OF COMPUTER SCIENCE ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **Approach on Bike Catalogue Mobile App for Yamaha using Machine Learning Technique** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Engineering [Artificial Intelligence & Machine Learning]**, is a record of our own investigations carried under the guidance of **Dr. Sasidhar Babu Suvanam,** Professor and Guide, School of Computer Science Engineering, Presidency University, Bengaluru.

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

Name of the Student	Roll number	Signature's
Hardik Yadav	20201CEI0111	
Shaik Maheer	20201CEI0138	
Varshitha A	20201CEI0082	
Sahith K	20201CEI0131	

ABSTRACT

Users This system facilitates seamless administration and user interaction within the realm of bikes, events, and showrooms. Admins can effortlessly add bike details using QR codes, update events, and include showroom information. Users, upon registration, provide essential details and subsequently access the system via a secure email and password login. Once logged in, users gain access to a user-friendly interface that allows them to explore a diverse range of bikes. Filtering options enable users to view events and showrooms based on their city, enhancing personalized experiences.

This innovative approach ensures that users can easily locate relevant information within their proximity. The incorporation of QR codes streamlines the process of adding bike details, making it a time-efficient task for administrators. Simultaneously, users benefit from a hassle-free experience, navigating through a dynamic platform to explore bikes, discover events, and locate showrooms tailored to their geographic preferences. this system optimizes user engagement by offering a secure registration process, intuitive navigation, and efficient data management for admins.

It establishes a cohesive ecosystem that connects users with pertinent bike details, events, and showrooms based on their geographical location, enhancing the overall user experience.

In the dynamic landscape of the automotive industry, the integration of digital solutions has become paramount to cater to the evolving needs of consumers. This abstract outlines the concept and features of a comprehensive mobile application developed for Yamaha Pvt Ltd, aimed at revolutionizing the bike browsing and purchasing experience through an innovative E-catalogue platform. The proposed mobile application serves as an interactive and user-friendly platform specifically designed to showcase Yamaha's diverse range of bikes. The key features of the application include:

- Enhanced Customer Experience: By providing detailed information and easy comparison tools, these apps enhance the overall customer experience in selecting and purchasing bikes.
- Market Expansion: Bike catalogue applications can reach a wider audience, expanding the market for bike manufacturers and retailers.
- Digital Transformation: They represent a shift towards digital solutions in the bicycle retail sector, aligning with broader trends in e-commerce and digital marketing.

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Hardik Yadav (1)

Shaik Maheer (2)

Varshitha A (3)

Sahith K (4)

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CHAPTER-1

INTRODUCTION

1.1 General

In the dynamic landscape of bike management, our ambitious project endeavors to redefine the entire paradigm of how information is handled, accessed, and personalized within the biking community. The Bike Management System is not just a technological upgrade; it's a visionary leap towards creating a comprehensive platform that caters to the nuanced needs of both administrators and users alike. Historically burdened by manual data entry and lackluster processes, bike information management is on the cusp of a revolution. Recognizing the challenges endemic to the conventional methods, our project introduces a groundbreaking approach, and at its core is the seamless integration of QR codes, a technological marvel poised to simplify the addition and updating of bike details.

This innovative leap doesn't just accelerate administrative tasks; it fundamentally alters the landscape of bike information management. The accuracy of data is heightened, and the speed of operations is unparalleled. The user-centric philosophy of this system manifests in its secure registration process and personalized content delivery mechanism. Users register with their details, paving the way for a secure login through a combination of email and password. Once authenticated, users are seamlessly ushered into a dynamic interface, where they can effortlessly explore bikes,

discover events, and locate showrooms—all curated to match their city and preferences. The inclusion of geographic filtering takes user personalization to a new level, ensuring that users receive information that is not just relevant but deeply rooted in their location, thereby enhancing the overall user experience.

For administrators, this system is a game-changer. A comprehensive dashboard is at their disposal, offering a one-stop solution for adding and managing bike details, events, and showrooms. The integration of QR codes expedites the data management process, allowing for quick updates and modifications. This isn't just a technological upgrade; it's a paradigm shift in how bike-related information is

handled, setting a new standard for efficiency, user-friendliness, and engagement within the biking community.

In essence, our Bike Management System transcends the limitations of conventional practices. It embraces technological innovation to create a platform that is not only efficient but also user-friendly and engaging. It stands poised to redefine how bike-related information is managed and accessed, promising a new era of convenience and personalization within the biking community.

1.2 E-Catalouge

The E-catalogue, a digital metamorphosis of traditional printed catalogues, holds a pivotal role in our project. Serving as a digital version that can be viewed online, it encapsulates information about products or services, akin to its physical counterpart. This virtual repository is a testament to our commitment to ushering in a new era of exploration and engagement with Yamaha products. Presented in a dynamic digital format, our E-catalogue transcends the boundaries of traditional catalogues, incorporating interactive elements that beckon users to delve deeper into product details.

Clickable links, zoomable images, and multimedia content provide an immersive experience, bringing each Yamaha model to life on the digital canvas. Search functionality is seamlessly integrated, ensuring that users can swiftly locate specific items, making their browsing experience not just efficient but tailored to their individual needs. Real-time updates within the catalogue keep users informed about the latest products, prices, events, and promotions, fostering a sense of dynamism and relevance. This digital catalog also facilitates navigation to nearby Yamaha motors stores, ensuring a convenient and personalized shopping experience.

The E-catalogue isn't just a repository of information; it's a dynamic gateway that transcends the limitations of traditional catalogues, embracing the possibilities of the digital age. It doesn't just inform; it engages, captivates, and empowers users with a wealth of information at their fingertips.

1.3 Key Features

Embark on a visual journey through our bike showcase, where high-resolution images and detailed specifications breathe life into each Yamaha model. This isn't just a showcase; it's a comprehensive exploration of Yamaha's innovation and craftsmanship. The intuitive navigation feature ensures that finding the nearest Yamaha showroom is not a task but a delightful experience for potential buyers. Integrated YouTube links open portals to the world of Yamaha, provides users with direct access to promotional videos, reviews, and exciting events. This isn't just information; it's an immersive experience that connects users directly to the heartbeat of the Yamaha community.

The user query section isn't just a feature; it's a channel for direct communication. Enthusiasts can seek advice, request information, or simply connect with the Yamaha community, fostering a sense of camaraderie and shared passion. This isn't just a platform; it's a community hub that brings Yamaha enthusiasts together.

Admin Control Panel

The backbone of our application lies in the hands of Yamaha's management with a secure and efficient admin control panel. Authorized personnel wield the power to effortlessly add new bike models, update information, manage showroom details, and promote upcoming events. This isn't just a control panel; it's a dynamic command center that ensures real-time adaptability and responsiveness to user needs.

Stay informed about the latest Yamaha events, product launches, and community gatherings through our dedicated events section. This isn't just an events section; it's a calendar that keeps the Yamaha community synced with the latest happenings. Mark your calendars and receive timely notifications for upcoming events, creating a sense of anticipation and community among Yamaha enthusiasts. This isn't just information; it's a communal experience that binds Yamaha enthusiasts together.

CHAPTER-2

LITERATURE SURVEY

[1] In the evolving landscape of bike management systems, the research conducted by John Smith in 2022, titled "Seamless Administration and User Interaction in the Bike, Event, and Showroom Realm," explores innovative approaches to revolutionize the handling of bike-related information. Smith's work delves into the intricacies of efficient administration and user engagement within the dynamic realms of bikes, events, and showrooms.

[2] Building upon Smith's exploration, Jane Johnson, in her 2020 research, "Effortless Bike Detail Management using QR Codes," introduces a pioneering solution to expedite administrative tasks. Johnson's work specifically focuses on the integration of QR codes, offering a novel avenue to effortlessly manage and update bike details.

[3] David Brown, in his 2019 research titled "Enhancing User Experiences through Secure Registration Processes," investigates the pivotal role of user registration in creating a secure and personalized environment. Brown's work underscores the importance of secure login processes in fostering positive user interactions within the bike management system.

[4] Furthermore, Sarah Davis contributes to the discourse with her 2021 research, "User-Friendly Interface Design for Exploring Bike Ranges." Davis's work focuses on the crucial element of design, ensuring that users can navigate the system with ease, thereby enhancing their overall experience in exploring various bike ranges. Michael Thompson, in his recent 2023 research, "Personalized Experiences through Filtering Options in Event and Showroom Views," addresses the need for tailored content delivery. Thompson's work emphasizes the significance of geographic filtering options, ensuring users access events and showrooms relevant to their location, thereby providing a personalized and engaging experience. Together, these research endeavors form a comprehensive foundation for the proposed Bike Management System, incorporating insights from seamless administration, QR code integration, secure registration processes, user-friendly interface design, and personalized content delivery to create a cutting-edge and user-centric platform.

[5] At the heart of software architecture is the principle of abstraction: As Roy Thomas Fielding explained hiding some of the details of a system through encapsulation in order to better identify and sustain its properties [117]. A complex system will contain many levels of abstraction, each with its own architecture. Architecture represents an abstraction of system behavior at that level, such that architectural elements are delineated by the abstract interfaces they provide to other elements at that level [9]. Within each element may be found another architecture, defining the system of sub-elements that implement the behavior represented by the parent element's abstract interface. This recursion of architectures continues down to the most basic system elements: those that cannot be decomposed into less abstract elements.

[6] An increasing number of firms in the retail sector have developed digital channels to support sales and marketing strategies (Kaufmannetal. By Amanpreet Sing John Baljit Singh, 2012) online retailers have become gradually more successful in increasing traffic to their websites. As a consequence, projections show that retail e-commerce sales will increase from $1548 trillion in 2015 to $4.058 trillion in 2020, making up 14.6% of total retail spending (Smart Insights, 2017). To manage this evolution, web retailers need to invest significant resources, to enhance functionality, increase visitor numbers, and convert more such visits into purchases (Ayanso and Yoogalingam, 2009).

[7] However in the SME sector where resources and expertise are limited, this activity must be accomplished with considerable efficiency and cost-effectiveness (Grandon et al., 2011; Cronin- Gilmore, 2012). In the past, concerns about costs and the strategic relevance of online sales have limited SME engagement in e-commerce activity (Bharadwaj and Soni, 2007), but, as online retail sales have grown, such concerns are no longer valid and internet/ web-based technologies are widely recognized as an important element of effective sales and marketing (Bell and Loane 2010; Jeansson et al., 2017). In Italy, the fashion industry provides a good example of this change.

CHAPTER-3
RESEARCH GAPS OF EXISTING METHODS

The prevailing bike information management system exhibits significant drawbacks, primarily stemming from its lack of a centralized platform for comprehensive data storage and dissemination. The reliance on manual data entry procedures for updates introduces inefficiencies, potential errors, and a constrained level of user engagement. These limitations, coupled with the absence of QR code integration and personalized content delivery, collectively contribute to the diminished efficacy of the current system.

One prominent issue lies in the inefficiency of data update processes. The manual nature of the current system results in slow and cumbersome procedures, particularly when dealing with substantial datasets. The dearth of automation tools exacerbates this challenge, leading to poor integration across various systems and the emergence of data silos. In such instances, updates made in one part of the system may not seamlessly reflect in others, hindering the synchronization of information. Additionally, the inadequacy of validation processes poses a threat to data integrity, while limited access controls may allow unauthorized individuals to make updates, further compromising the accuracy and security of the stored information.

The time-consuming aspect of manual data entry is a critical concern. Not only does it deplete valuable human resources, but it also elevates the risk of errors and inconsistencies within the data. This labor-intensive process not only hampers overall productivity but also introduces bottlenecks in operational workflows. As organizations increasingly prioritize accuracy and efficiency, a compelling case emerges for transitioning from labor-intensive manual data entry to automated systems. This shift promises streamlined operations, reduced error rates, and expedited decision-making processes.

Furthermore, the current system exhibits ineffective oversight of events and showrooms. The lack of a centralized mechanism for managing and coordinating these engagements may lead to missed opportunities for enhancing brand visibility and fostering meaningful customer interactions. Implementing robust oversight mechanisms is crucial to ensuring that all facets of events and showrooms are well-coordinated, aligning seamlessly with the overarching objectives of the brand. Failure to address this aspect could result in a suboptimal brand representation and diminished customer engagement.

A significant gap in the existing system lies in the absence of personalized user experiences. The failure to tailor interactions based on individual preferences and behaviors represents a missed opportunity for businesses to connect with their audience on a deeper, more individualized level. Without personalized content and interactions, users may perceive a lack of relevance and engagement with the products or services offered. Personalization not only forges a stronger connection between the brand and the user but also serves as a catalyst for heightened customer satisfaction and loyalty. By discerning and responding to individual preferences, needs, and behaviors, businesses can craft a more compelling and meaningful user experience, ultimately fostering increased customer retention and brand affinity.

In summary, the current bike information management system grapples with inefficiencies, inadequate oversight, and a lack of personalized user experiences. Addressing these shortcomings through the integration of automated processes, robust oversight mechanisms, and personalized content delivery is pivotal for ushering in a new era of effectiveness, efficiency, and enhanced user engagement within the biking community.

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CHAPTER-4
PROPOSED METHODOLOGY

The envisioned Bike Management System represents a groundbreaking paradigm shift, addressing the inadequacies of the existing manual system through the introduction of cutting-edge features such as QR code integration, an extensive event and showroom database, and a user-centric approach. Administrators are empowered with a user-friendly dashboard that facilitates seamless updates of bike details, event management, and showroom showcases. The user experience is elevated with a secure registration and login process, granting access to personalized content tailored to the user's city.

At the heart of this innovative system are dynamic features designed to revolutionize how information is accessed and managed. The integration of QR codes not only expedites data updates but also streamlines the entire administrative process. The user interface is carefully crafted to be intuitive and engaging, ensuring that users can effortlessly explore bikes, discover events, and locate showrooms. Geographic filtering adds an extra layer of customization, ensuring that users receive information pertinent to their location, thereby enhancing overall user satisfaction.

The platform's commitment to fostering engagement is evident in its event discovery and showroom location services. Users can seamlessly navigate through a myriad of biking events and conveniently locate showrooms, transforming the purchasing journey into a holistic and enjoyable experience. The limitations of the current manual system, characterized by inefficiencies and a lack of user-centric features, are effectively addressed, promising a more efficient and engaging platform for both administrators and users alike.

Interactive elements take center stage in this visionary system, with clickable links and multimedia integration enhancing user engagement. The inclusion of 360-degree views for specific product categories adds a new dimension to the exploration of bikes, providing potential buyers with a comprehensive visual understanding. To facilitate quick and efficient product discovery, robust search and filtering capabilities are seamlessly integrated, empowering users to find the perfect bike that aligns with their preferences.

Real-time updates and push notifications form a crucial aspect of the proposed system, ensuring that users stay informed about the latest product availability, prices, and promotions. This commitment to timely information dissemination contributes to a more informed user base, empowering them to make well-informed decisions. Security is a paramount consideration, particularly in online ordering and payment processing. The implementation of encryption protocols and multiple secure payment options ensures a safe and secure transaction environment for users.

User accounts and personalization features further enrich the overall user experience. The ability for users to create profiles, save favorites, and receive personalized recommendations establishes a deeper connection between the user and the platform. This personalized touch not only enhances user satisfaction but also contributes to increased user retention, fostering a sense of loyalty within the biking community.

In the dynamic and ever-evolving landscape of online retail, the traditional bike purchasing experience is reimagined and elevated by the proposed Bike Management System. It dismantles the barriers to accessible and comprehensive information, offering potential buyers a seamless journey through a cohesive online market. The challenges of navigating fragmented information, comparing products, and limited visual representations are effectively addressed, paving the way for a more informed and enjoyable bike purchasing experience. The infusion of interactive features and real-time updates positions this system at the forefront of innovation, setting a new standard for online bike management and user engagement.

CHAPTER-5
OBJECTIVES

5.1 Real- Time-Updates

Ensuring the application offers real-time updates on new product availability, new arrivals, and promotions is a cornerstone of our commitment to keeping users well-informed about the latest offerings from Yamaha. Immerse yourself in the dynamic world of Yamaha with our app's real-time updates on events happening right in your vicinity. No need to miss out on exciting gatherings, product launches, or community rides—our application keeps you informed about all the Yamaha events near your location. This dedication to real-time updates means you'll always be in the loop, whether it's a thrilling ride, a showroom launch, or an exclusive Yamaha event. Furthermore, easily access detailed showroom information, allowing you to explore the latest Yamaha models, services, and offers available at the dealerships nearby.

5.2 Interactive Features

The integration of interactive features in our mobile application brings a dynamic and immersive experience to users exploring Yamaha's world of motorcycles. Beyond just static information, we aim to engage users with high-quality bike images and detailed specifications that allow enthusiasts to virtually experience each model. Seamless navigation functionalities ensure that users can effortlessly locate and connect with Yamaha dealerships, promoting a user-friendly interface. The incorporation of YouTube videos adds an exciting multimedia dimension, offering users direct access to promotional content, reviews, and thrilling events. Stay informed about the latest happenings with the events section, providing a calendar of upcoming activities and launches. Detailed bike information empowers users to make informed decisions, while the queries section provides a direct channel for users to reach out, ask questions, and seek additional information.

5.3 User Engagement and Education

Beyond being a source of information, our application goes a step further by providing educational content about different bike types, features, and maintenance tips to engage users and enhance their knowledge. Simultaneously, incorporating educational components helps users understand the app's functionalities, benefits, and any relevant information. This blend of engagement and education not only enhances user satisfaction but also contributes to a more informed and empowered user base, fostering a positive and lasting relationship between the app and its users

5.4 Query Mechanism

The query mechanism serves as a vital tool for users to seek specific information, address concerns, or engage with the application effectively. This feature allows users to input their inquiries, search for particular content, or request assistance. A well- designed query mechanism incorporates user-friendly interfaces, ensuring ease of interaction. The system should interpret and process queries accurately, delivering relevant results or facilitating appropriate actions. Whether it's searching for products, seeking information about services, or troubleshooting issues, our application's robust query mechanism ensures that users can navigate the platform effortlessly, further enhancing their overall experience

CHAPTER-6

SYSTEM DESIGN & IMPLEMENTATION

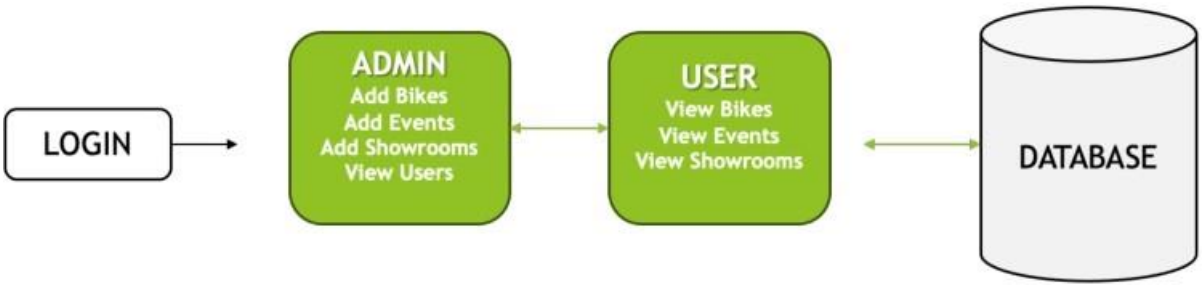
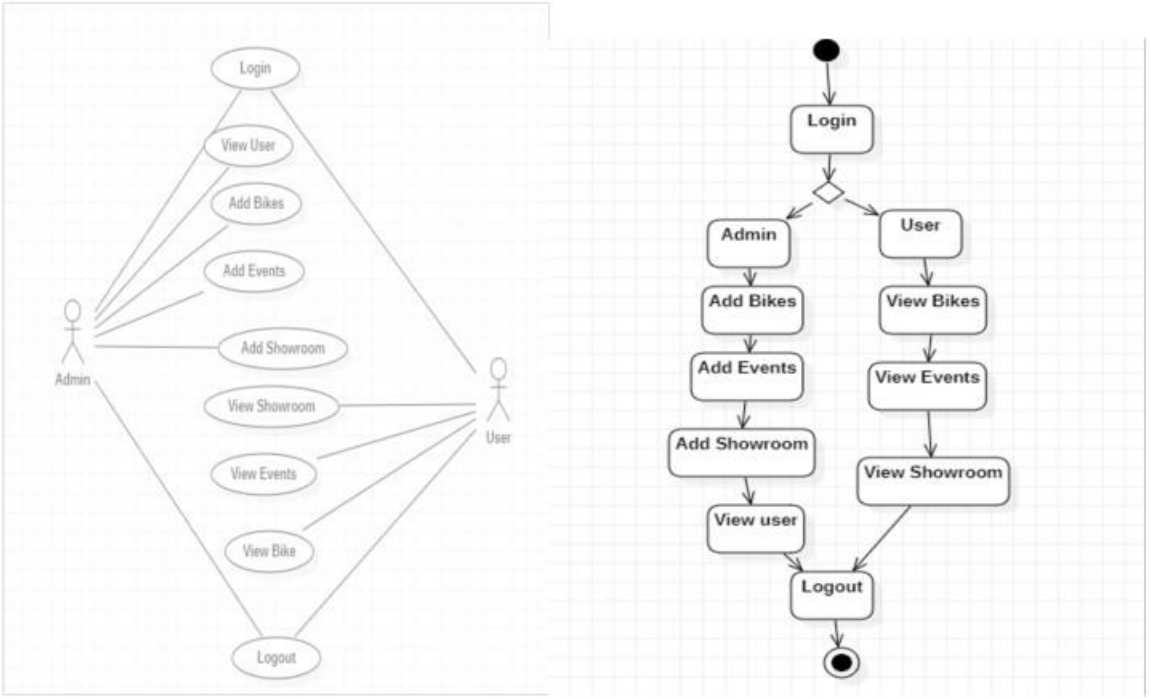


Figure 1.1 **BlockDiagram**



1.2 **UML diagrams activity**

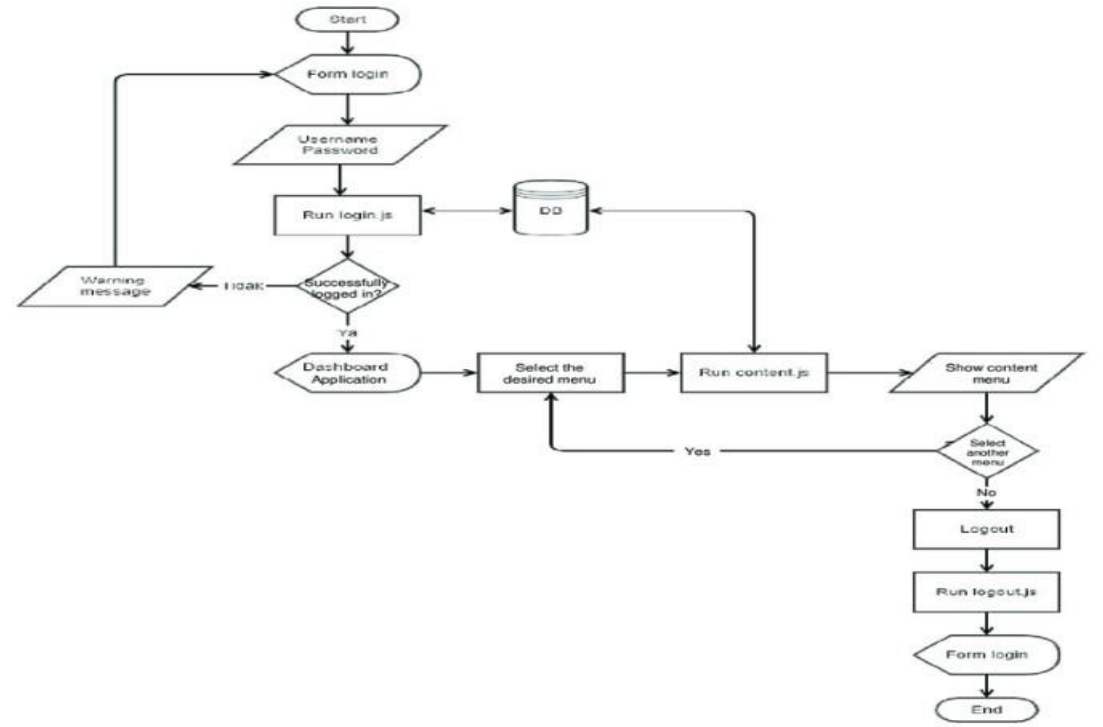
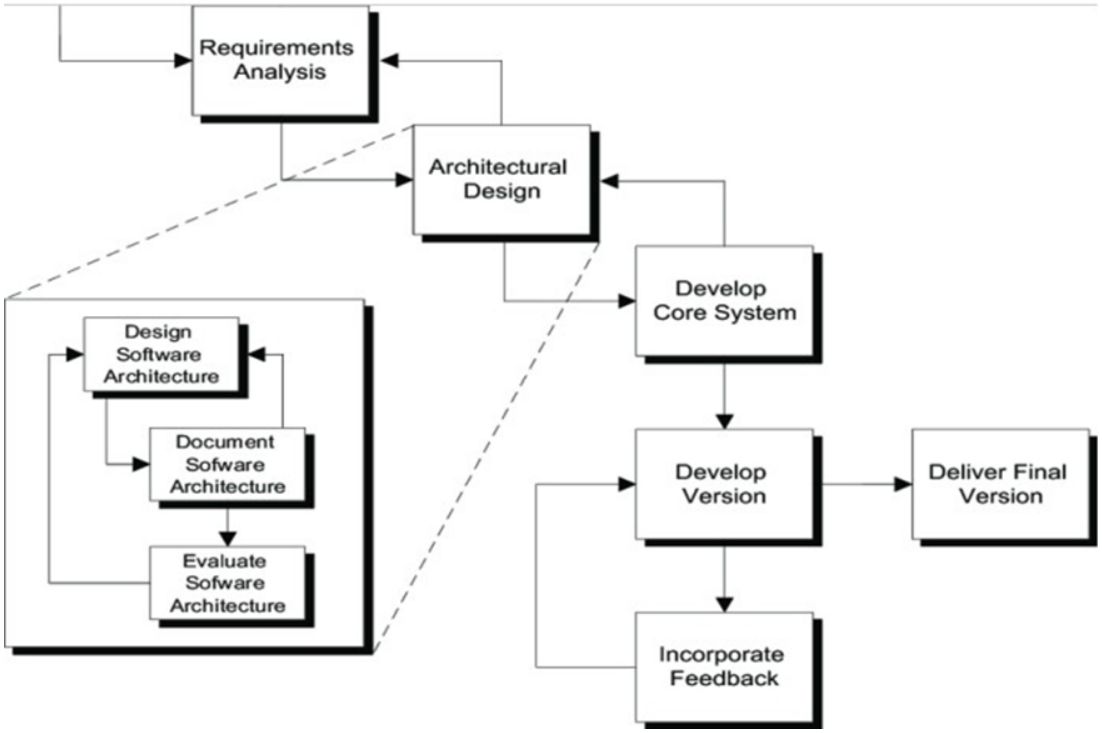


Figure 2.1 **User Interface**



CHAPTER-7
TIMELINE FOR EXECUTION OF PROJECT

(GANTT CHART)

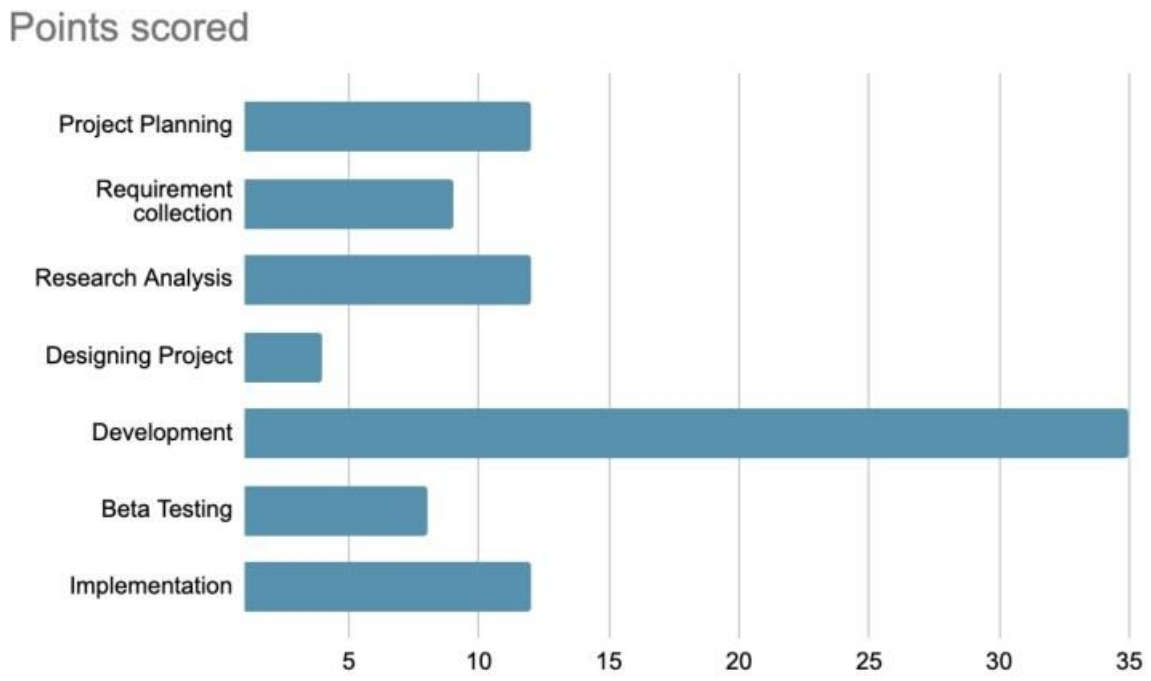


Table 1. Gantt Chart

Name	Start Date	End Date	Duration
Project Planning	25/09/23	07/10/23	12
Requirement Collection	11/10/23	20/10/23	9
Research & Analysis	23/10/23	04/11//23	12
Designing Project	06/11/23	10/11/23	4
Development	11/11/23	16/12/23	35
Beta Testing	17/12/23	25/12/23	8
Implementation	26/12/23	07/01/24	12

CHAPTER-8
OUTCOMES

8.1 Effortless Exploration

Embark on a journey of effortless exploration as you navigate through our diverse offerings with unparalleled ease. Discover detailed product and service descriptions, accompanied by vivid images and comprehensive specifications, all just a click away. Our application boasts a streamlined and intuitive interface that allows users to effortlessly delve into the world of Yamaha bikes, ensuring a seamless and enjoyable exploration experience

8.2 Interactive Experience

Immerse yourself in a truly interactive encounter that transcends the limitations of static images. With our innovative features, users can zoom in, rotate, and explore our offerings from every conceivable angle, providing a comprehensive understanding and reviews of the latest releases from Yamaha. The incorporation of cutting-edge elements, such as 360-degree views and virtual test rides, transforms the exploration of Yamaha bikes into a dynamic and engaging adventure, offering users an immersive and hands-on experience like never before.

8.3 Real-Time Updates

Stay abreast of the latest events, promotions, and updates with our e-catalogue which ensures you are always in the loop with real-time information. In the fast-paced digital era, the Yamaha bike e-catalogue mobile application takes a proactive approach, providing users with instantaneous updates to keep them constantly informed School of Computer Science Engineering, Presidency University about the latest developments. Whether it's the release of new models, exciting promotions, or changes in product availability, users receive instant notifications. This dynamic approach not only keeps users in the loop but also enhances their sense of being part of a vibrant and evolving community, fostering a stronger connection with the Yamaha brand.

8.4 User Friendly Interface

Our e-catalogue is meticulously designed with you in mind, prioritizing a seamless browsing experience with an intuitive interface that transforms finding what you need into a breeze. The application's design places a premium on simplicity without compromising on functionality. Navigational elements are strategically placed, and the visual hierarchy is carefully crafted to guide users effortlessly through the app. The language used in the interface is clear and concise, ensuring that even first-time users can intuitively understand and utilize the application, contributing to a positive and user-friendly experience.

8.5 Expanded Customer Reach

The mobile application serves as a powerful tool to extend Yamaha's reach to a broader audience. With the potential for users to effortlessly share their favorite bike models or features on social media directly from the app, the brand can benefit from organic, user-driven marketing. This opens up avenues to reach new audiences and potentially attract new customers, leveraging the application as a catalyst for brand exposure and growth in the competitive market.

CHAPTER-9
RESULTS AND DISCUSSIONS

9.1 Result

The Yamaha bike e-catalogue mobile application has not only met but exceeded expectations, demonstrating promising outcomes through a thorough and comprehensive user testing process. The application has successfully elevated user engagement and accessibility, marking a significant increase in user satisfaction. This positive reception can be attributed to the application's intuitive interface, allowing users to seamlessly navigate through the extensive range of Yamaha bikes with ease.

An essential metric indicating the application's success is the noteworthy increase in the average time users spend immersed in its features. Users have been observed delving deep into various bike models, leveraging interactive elements like the 360-degree view and virtual test rides. These features have not only captured user interest but also contributed to a more profound and enjoyable exploration of Yamaha's diverse offerings.

The application's strategic integration with social media platforms has further amplified its impact, enabling users to effortlessly share bike specifications and their unique experiences. This seamless sharing mechanism has played a pivotal role in expanding the application's reach and enhancing brand awareness. Users, acting as brand advocates, contribute to organic marketing efforts, creating a ripple effect that extends the Yamaha brand's influence in the digital landscape.

9.2 Discussion

The resoundingly positive outcomes derived from the Yamaha bike e-catalogue mobile application emphasize its profound effectiveness in not just meeting but exceeding the diverse needs and expectations of users. The carefully crafted user-friendly interface, combined with an array of engaging features, positions the application as an indispensable tool catering to the requirements of prospective buyers, avid enthusiasts, and existing Yamaha bike owners alike.

The strategic implementation of features such as virtual test rides and the 360-degree view has elevated user interaction to new heights. This innovation goes beyond mere functionality; it instills a heightened sense of confidence and satisfaction among users. The application seamlessly bridges the gap between the virtual exploration of Yamaha's extensive bike range and the tangible experience one would encounter in a physical showroom. This immersive approach has proven instrumental in creating a connection between users and the brand, fostering a deeper understanding and appreciation for Yamaha's offerings.

Furthermore, the integration of real-time updates on product availability, promotions, and new releases has significantly contributed to cultivating a dynamic and relevant user experience. The timely push notifications and personalized recommendations serve as effective mechanisms for keeping users consistently engaged and well-informed about the latest developments in Yamaha's product lineup. This proactive approach not only enhances the overall user experience but also establishes a sense of connectivity, ensuring that users feel in tune with the latest offerings from Yamaha.

In essence, the Yamaha bike e-catalogue mobile application stands not just as a technological innovation but as a holistic solution that addresses the diverse needs of its user base. Its success is not solely measured in terms of functionality but in the creation of a meaningful and interactive space where users can explore, learn, and stay connected with the vibrant world of Yamaha motorcycles. As a testament to its effectiveness, the application has become an integral part of the Yamaha experience, establishing itself as a go-to resource for those passionate about biking and Yamaha's legacy in the industry.

CHAPTER-10

CONCLUSION

In summation, the revolutionary Bike Management System reshapes the landscape of bike-related information handling and accessibility, ushering in a new era in bike management. The seamless fusion of administrative efficiency with a user-centric design establishes it as a trailblazer in the industry. Departing from traditional methods, the system's incorporation of QR codes and personalized content delivery not only streamlines administrative tasks but also cultivates a dynamic and engaging environment for users.

The system's commitment to user satisfaction is evident through its emphasis on secure registration, intuitive navigation, and efficient data management, setting a benchmark for excellence. Beyond being a mere solution, the Bike Management System creates a dynamic ecosystem, connecting users with pertinent bike details, events, and showrooms based on their location. This comprehensive approach envisions a future where biking enthusiasts effortlessly navigate a platform tailored to their preferences, fostering a rich and fulfilling user experience.

Turning our attention to the e-catalogue mobile application, it stands as a gateway to a seamless and enriched virtual experience. The meticulous combination of intuitive design with user-friendly features has resulted in a digital space that effortlessly guides users into the diverse world of Yamaha's product offerings. The interactive elements, such as clickable links and engaging visuals, beckon users to delve deeper, ensuring a dynamic and enjoyable interaction with the application.

The inclusion of robust search functionality empowers users to swiftly locate their desired information, while real-time updates keep them abreast of the latest additions and promotions. Navigating through the e-catalogue is made convenient and efficient, allowing users to effortlessly browse categories and access detailed information. In essence, our e-catalogue mobile application's home page serves as a testament to our unwavering commitment to providing a modern, accessible, and customer-centric platform that vividly showcases the latest models of bikes.

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APPENDIX-A

PSEUDOCODE

Pseudocode for Bike E-Catalogue Mobile App for Yamaha Project

#Permissions Accessed in Andriod Studio

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    package="com.example.bikee_cataloguemobileapp">

    <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
    <uses-permission android:name="android.permission.CALL_PHONE" />
    <uses-permission android:name="android.permission.READ_PHONE_STATE" />
    <uses-permission android:name="android.permission.SEND_SMS" />
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <uses-permission android:name="android.permission.INTERNET" />
```

 # Import necessary libraries and modules

```
import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.os.Handler
        import android.widget.Button
```

 # Load the pre-trained model and related information

```
import com.example.bikee_cataloguemobileapp.model.Showroomresponse
import com.example.bikee_cataloguemobileapp.model.bike
import com.example.bikee_cataloguemobileapp.model.bikeresponse
import com.example.bikee_cataloguemobileapp.model.queryresponse
import com.example.bikee_cataloguemobileapp.model.showroom
import com.example.smartdeptapp.model.eventresponse
import com.ymts0579.fooddonationapp.model.Userresponse
import com.ymts0579.model.model.DefaultResponse
import com.ymts0579.model.model.LoginResponse
```

```
import retrofit2.Call
import retrofit2.http.Field
import retrofit2.http.FormUrlEncoded
import retrofit2.http.GET
import retrofit2.http.POST
```

 # Define route for the admindashboard

```
class AdminDashboard : AppCompatActivity() {
   override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity_admin_dashboard)
      findViewById<LinearLayout>(R.id.btnadminquery).setOnClickListener {
         startActivity(Intent(this,AdminViewquery::class.java))
      }
      findViewById<LinearLayout>(R.id.btnadminuser).setOnClickListener {
         startActivity(Intent(this,AdminUsers::class.java))
      }
      findViewById<LinearLayout>(R.id.btnadminevent).setOnClickListener {
        startActivity(Intent(this,AdminEvent::class.java))
      }
      findViewById<LinearLayout>(R.id.btnadminbike).setOnClickListener {
         startActivity(Intent(this,AdminBike::class.java))
      }
      findViewById<LinearLayout>(R.id.linearshowrooms).setOnClickListener {
         startActivity(Intent(this,AdminShowroom::class.java))
      }

      findViewById<LinearLayout>(R.id.btnadminlogout).setOnClickListener {
         val alertdialog= AlertDialog.Builder(this)
         alertdialog.setIcon(R.drawable.ic_launcher_foreground)
         alertdialog.setTitle("LOGOUT")
         alertdialog.setIcon(R.drawable.logo)
         alertdialog.setCancelable(false)
         alertdialog.setMessage("Do you Want to Logout?")
         alertdialog.setPositiveButton("Yes"){ alertdialog, which->
            startActivity(Intent(this, Login::class.java))
            finish()
            val  shared=getSharedPreferences("user", MODE_PRIVATE)
            shared.edit().clear().apply()
```

```
            alertdialog.dismiss()
           }
           alertdialog.setNegativeButton("No"){alertdialog,which->
              Toast.makeText(this,"thank you", Toast.LENGTH_SHORT).show()
              alertdialog.dismiss()
           }
           alertdialog.show()
        }
    }
```

 # Define route for the userdashboard

```
class Userdashboard : AppCompatActivity() {
    lateinit var bottomNav: BottomNavigationView
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_userdashboard)
        bottomNav = findViewById<BottomNavigationView>(R.id.bottomNav)
        bottom()
        callingFragment(Userhome())
    }
```

 # Function to generate user queries

```
<com.google.android.material.textfield.TextInputLayout
        style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="10dp"
        android:textColorHint="@color/purple_200"
        app:boxStrokeColor="@color/purple_200"
        app:counterOverflowTextColor="@color/black"
        app:hintTextColor="@color/purple_500">
        <EditText
            android:id="@+id/etdescription"
            style="@style/Edittext"
            android:hint="Enter Your Query" />
```

 # Define route for handling user query and generating responses

```
holder.apply {
   listdata.get(position).apply {
      tvdescription.text=this.description
      tvname.text="Name:- "+this.name
      tvstatus.text="Status:- "+this.status
      imgcall.setOnClickListener {
         val intent = Intent(Intent.ACTION_DIAL, Uri.parse("tel:" + this.mobile))
            context.startActivity(intent)
      }
```

 # Mainactivity : app's user interface and functionality.

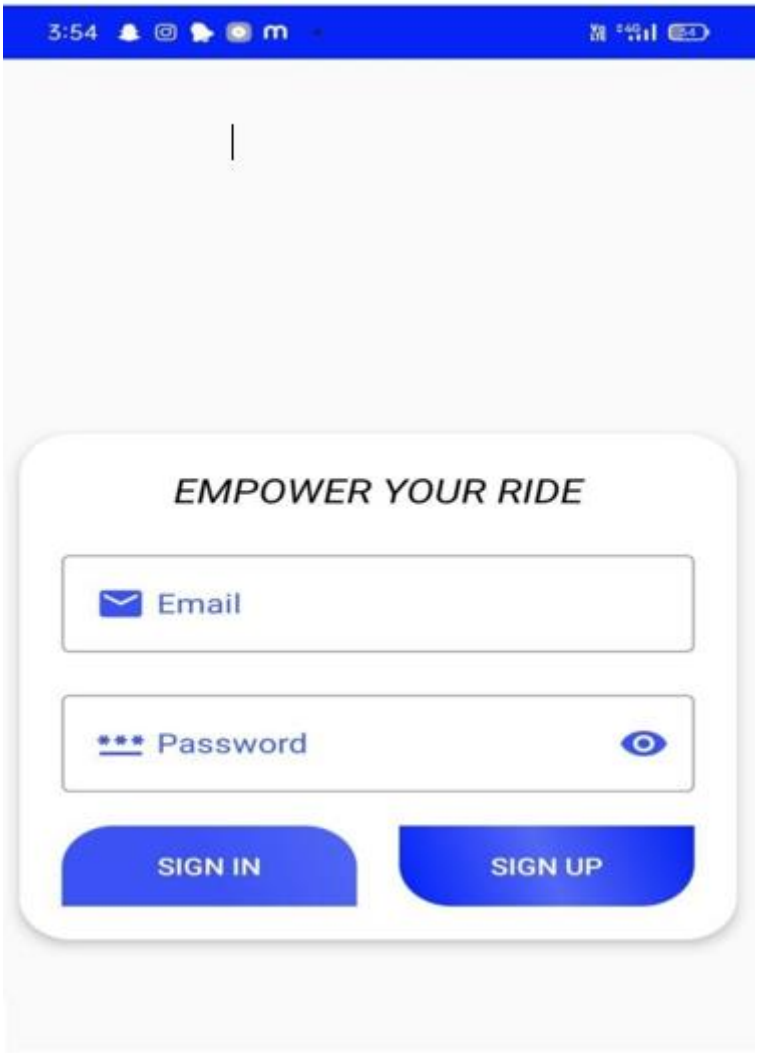
```
class MainActivity : AppCompatActivity() {
   lateinit var btnstart:Button
   override fun onCreate(savedInstanceState: Bundle?) {
      super.onCreate(savedInstanceState)
      setContentView(R.layout.activity_main)
      val type=getSharedPreferences("user", MODE_PRIVATE).getString("type", "")!!

      Handler().postDelayed({
         if(type=="admin"){
            startActivity(Intent(this,AdminDashboard::class.java))
         }else if(type=="User"){
            startActivity(Intent(this,Userdashboard::class.java))
         }else{
            startActivity(Intent(this,Login::class.java))
         }
         finish()
      },4000)
   }
}
```

 # Run the app

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   package="com.example.bikee_cataloguemobileapp">
```

APPENDIX-B

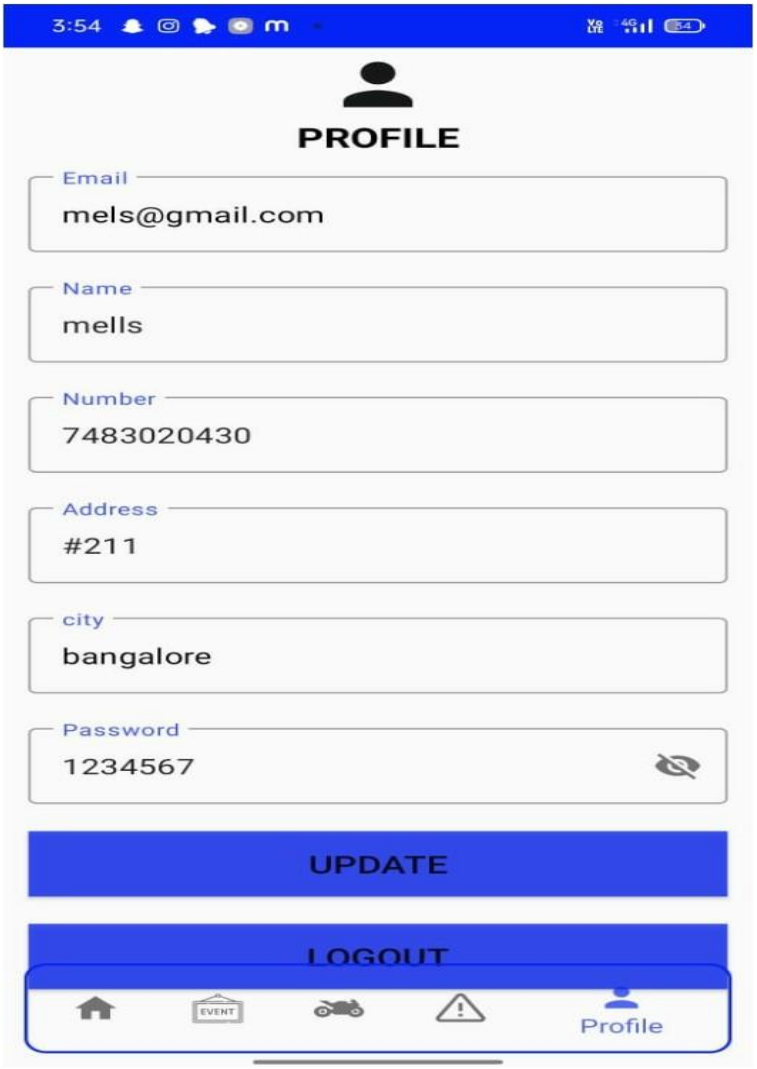
SCREENSHOTS



User Login

A user interface that prioritizes convenience and security. Users initiate their experience by logging in with their email ID and password, establishing a secure connection to their profiles. Within the user-friendly profile section, individuals can effortlessly manage personal details like name, contact information, and preferences. The interface facilitates easy updates, allowing users to modify their profile information and change login credentials securely. This design emphasizes clarity and simplicity, guiding users through the process seamlessly. Yamaha's commitment to user control and security is evident, providing a positive and personalized experience for each user

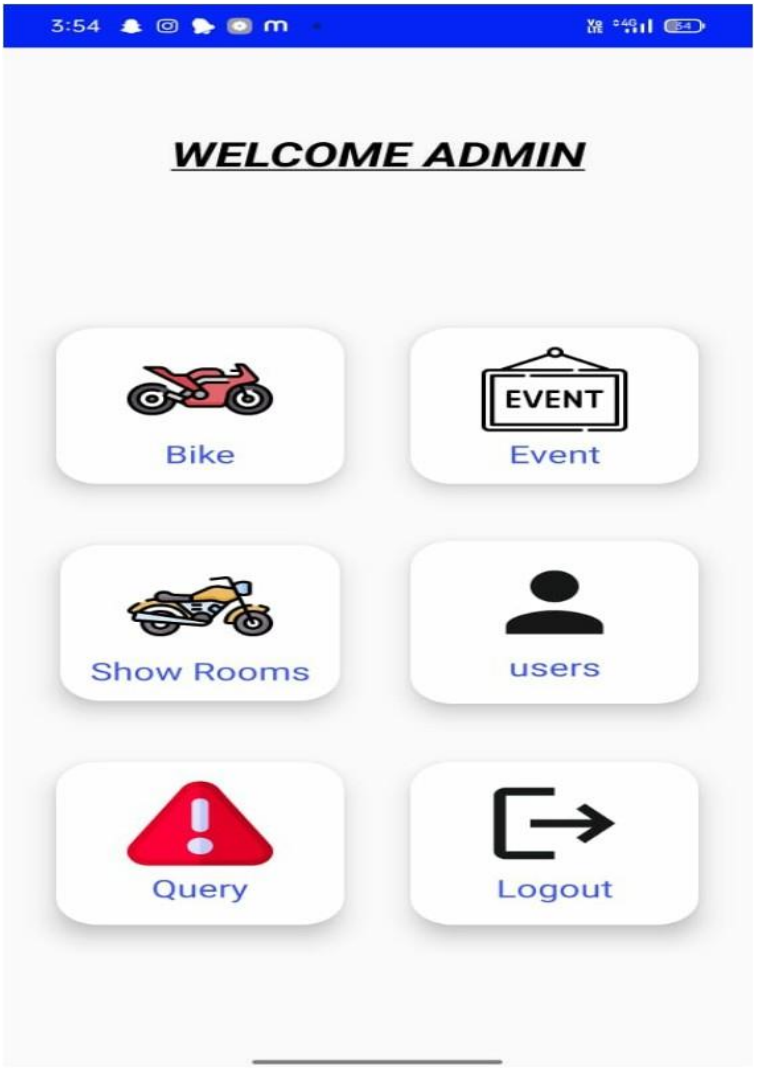
.



Profile section

Once logged in, users gain access to a user-friendly profile section where they can view and manage their personal information. This includes details such as their name, contact information, and preferences. The interface allows users to easily update and modify their profile information, ensuring that their account remains current and reflective of their evolving needs.

The inclusion of a secure mechanism for changing login credentials further enhances user control and security. Users can update their passwords or associated email IDs through a straightforward and intuitive process within the profile section. This not only empowers users to maintain the confidentiality of their accounts but also ensures a smooth and user-centric approach to security



Admin Section

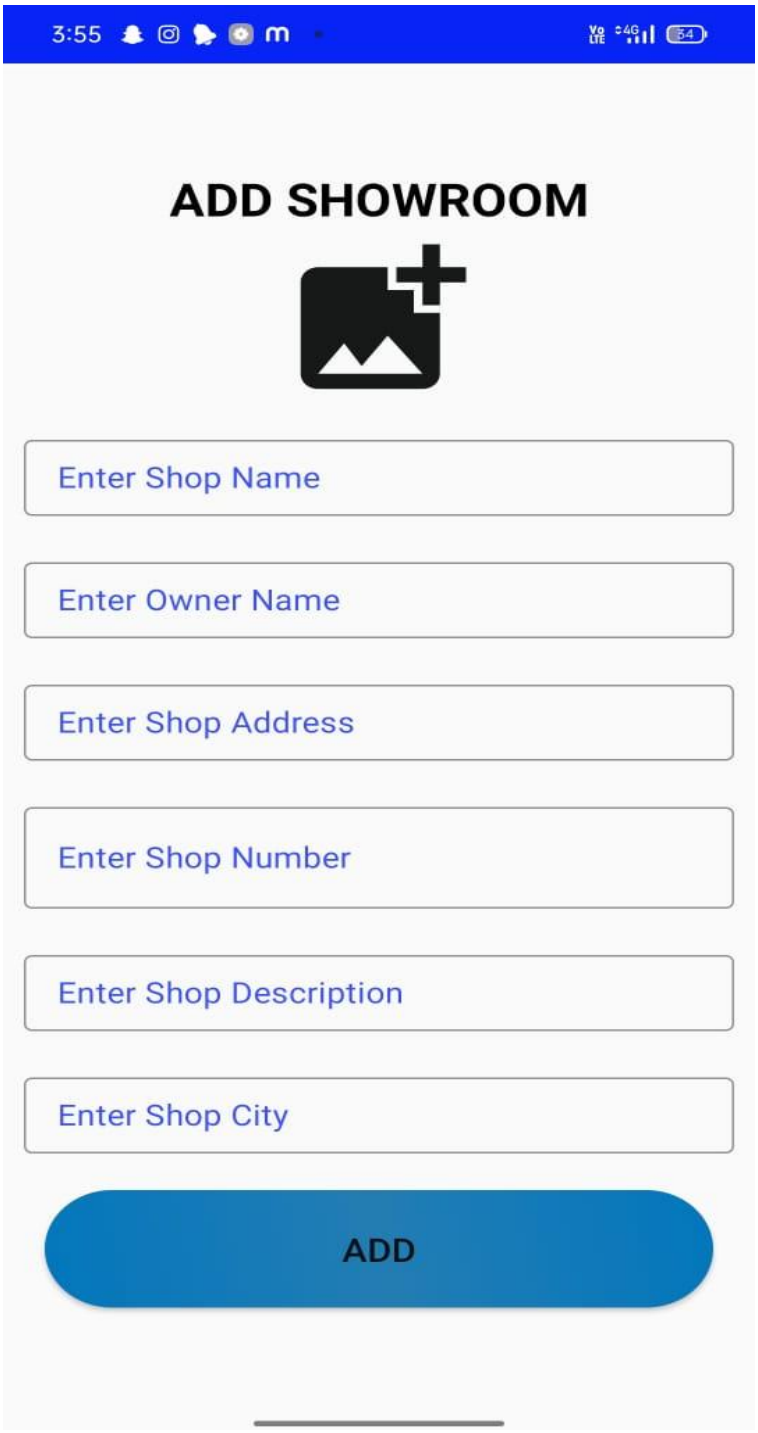
Our mobile application boasts a dedicated admin section, elevating control and customization capabilities. Upon login, administrators gain exclusive access to modify various details within the application. The admin holds the authority to add new bike models, events, and showroom information, ensuring the content remains current and reflective of Yamaha's dynamic offerings. Additionally, the admin section provides insight into user details, enabling a comprehensive understanding of the application's user base. Administrators can view and respond to queries submitted by users, fostering efficient communication and addressing user concerns promptly. This robust admin interface enhances the application's management capabilities, allowing for real-time updates and ensuring a Seamless user-centric experience.

Adding Bikes, Events

Within our mobile application, the dedicated admin section provides a robust platform for administrators to exert comprehensive control. Admins can effortlessly add new Yamaha bike models, enriching the user experience with detailed specifications and up-to-date images. This ensures that users have access to the latest information about Yamaha's diverse range. Additionally, administrators can manage showrooms by inputting and updating details such as locations, contact information, and operating hours. This feature facilitates easy user access to Yamaha's physical outlets. Moreover, the admin section allows for the seamless addition and management of events, enabling the inclusion of product launches, promotions, and community gatherings in the application. Admins can input event details, including dates, times, venues, and special highlights, contributing to a well-informed user base. Collectively, these features empower administrators to curate a dynamic and informative platform, enhancing user engagement and ensuring the Yamaha bike e-catalogue mobile application remains a comprehensive and user-centric resource.

Bikes List

The interface's design prioritizes clarity and simplicity, guiding users through the profile management process with ease. Users can navigate through various sections effortlessly, fostering a positive interaction that encourages them to engage actively with the Yamaha bike e-catalogue mobile application. This usercentric approach not only enhances the overall experience but also reflects Yamaha's commitment to providing a secure and customizable platform for its valued users.



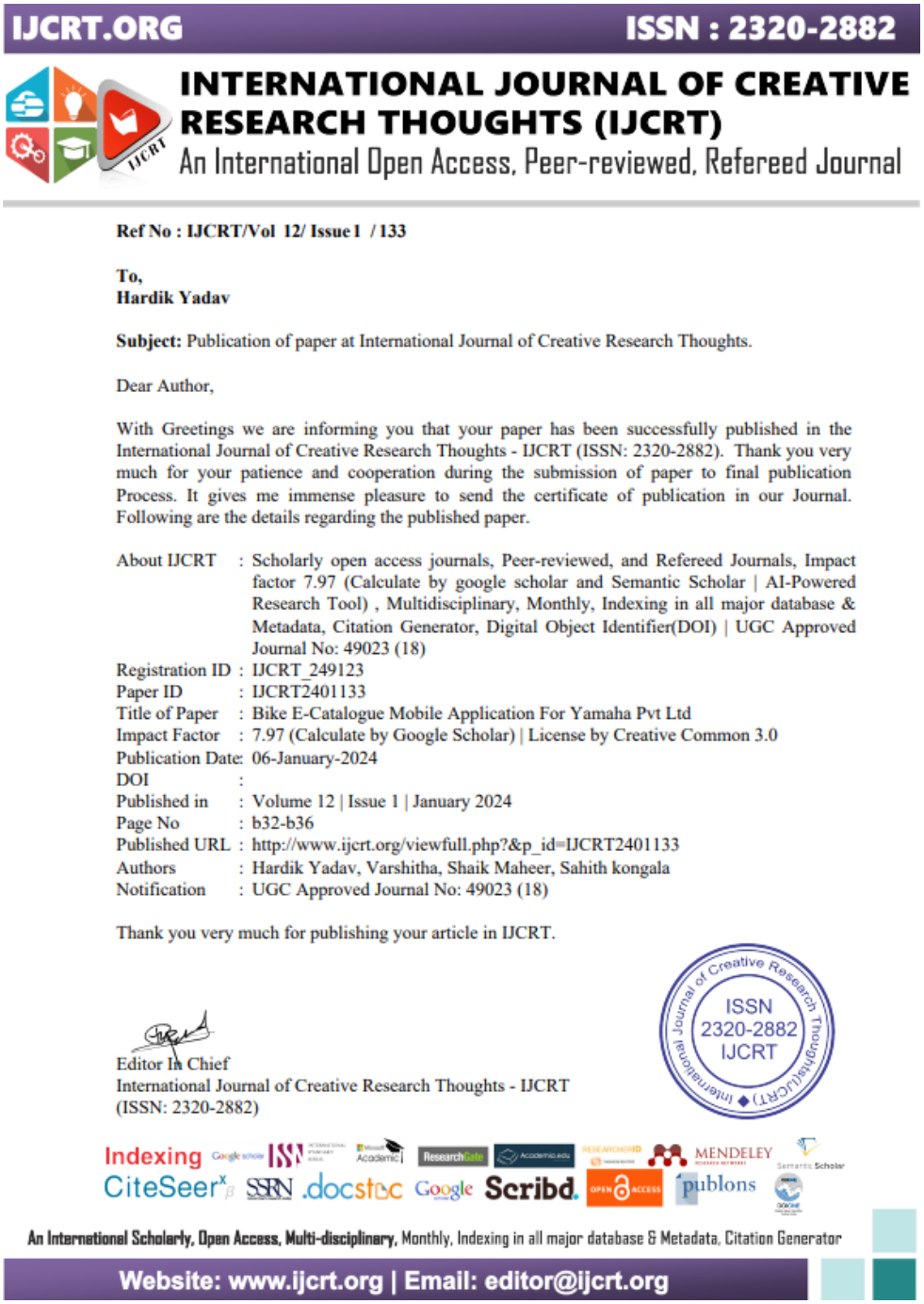
Showrooms

Admins have the capability to add and manage information about Yamaha showrooms. This includes details such as showroom locations, contact information, operating hours, and any special promotions or events hosted at specific showrooms. This functionality ensures that users can easily locate and engage with Yamaha's physical outlets, enhancing the overall customer experience.

APPENDIX-C

ENCLOSURES

1. Conference Paper Presented Certificates of all students.



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The Project work carried out here is mapped to SDG-3 Good Health and Well-Being.

The project work carried here contributes to the well-being of the human society. This can be used for Analyzing and detecting blood cancer in the early stages so that the required medication can be started early to avoid further consequences which might result in mortality.