

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



Internship Report
on
“AAHAR APPLICATION”

**A report submitted in partial fulfillment of the requirements for the award a
degree of**

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

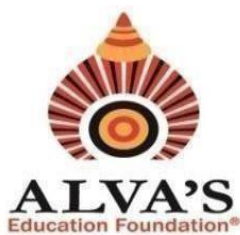
FATHIMATHUL RAMZEENA 4AL20CS039

Under Supervision of

Dr. Madhusudhan S

Associate Professor

Computer Science and Engineering



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOOBBIDRI-574225, KARNATAKA**

2023 – 2024

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Internship report on **"AAHAR APPLICATION (FOOD DONATION APPLICATION)"** submitted by **FATHIMATHUL RAMZEENA (4AL20CS039)** is work done by her and submitted during the academic year 2023-24, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF ENGINEERING in COMPUTER SCIENCE AND ENGINEERING**

Internship Mentor
Department of CSE

BP 8/5/24

Internship Coordinator
Department of CSE

Head of the Department
Department of CSE

Examiners

Name

Signature

1)

2)

Acknowledgement

First I would like to thank **ApMoSys** for giving me the opportunity to do an internship within the organization.

I also would like all the people that worked along with **ApMoSys** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I am highly indebted to Managing Trustee **Mr. Vivek Alva** and Principal **Dr. Peter Fernandes, Alva' Institute of Engineering and Technology, Mijar** for the facilities provided to accomplish this internship.

I would like to thank my Head of the Department **Dr. Manjunath Kotari, Professor, Department of Computer Science and Engineering** for his constructive criticism throughout my internship.

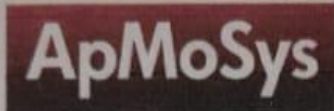
I would like to thank my internship Coordinator **Dr. Madhusudhan S, Associate Professor, Department of Computer Science and Engineering** for his guidance throughout my internship.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

FATHIMATHUL RAMZEENA

4AL20CS039

INTERNSHIP CERTIFICATE



Date: 18th May, 2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Fathimathul Ramzeena (Aadhar No-382359693466) has successfully completed 90 days of (14th February 2024 to 14th May 2024) internship programme at ApMoSys Technologies.

During the period of this internship programme with us, she was found punctual, diligent, and inquisitive.

We wish her every success in life.

Sincerely,

A circular stamp of ApMoSys Technologies is visible behind the signature. The signature is in cursive and reads "Lituja Mishra".

Lituja Mishra,

Senior Vice President - HR

ApMoSys Technologies.

ApMoSys Technologies Private Limited

Head Office: Office No. 505/506, 5th Floor, Bhubaneswar, Odisha - 751013

ABSTRACT

ApMoSys is a best-in-class learning solutions organization headquartered in India's IT capital, Bangalore. It offers a wide range of courses in the area of software testing and are official partners of the ISTQB. A "finishing school" in many ways, the institute provides young job aspirants the perfect launch-pad to build a rewarding career in the growing IT sector. From its humble beginnings, has exponentially grown to be the world's largest software testing training organization spread across countries. At ApMoSys, It ensure training is imparted by specialists with proven subject matter expertise and who have spent over a decade in their area of specialization. Its faculty are highly competent, skilled and dedicated to giving their best towards the professional development of students. Besides training, It also provide placement assistance to our students and most of the big corporates in the corporate world hire our trained talent. It is indeed our pleasure to have placed over thousands of job- seekers in various IT firms across India over the years with an aim to place thousands more! Building competency into over 5000 students a month, ApMoSys is where talent meets opportunity and we believe your search for the dream job or the dream professional ends here.

DAILY LOGS

DAY	DATE	TOPICS COVERED
Day 1-Day15	14/02/2024 – 28/02/2024	JAVA
Day 16-Day 30	29/02/2024 – 14/03/2024	HTML/CSS/JAVASCRIPT
Day 31-Day 45	15/03/2024 – 30/03/2024	My SQL
Day 46-Day 60	31/03/2024 – 14/04/2024	SALENIUM TOOL
Day 61- Day 75	15/04/2024 – 30/04/2024	Introduction about Banking domain
Day 76-Day 90	01/05/2024 – 14/05/2024	FINACLE/FLEXCUBE

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INTERNSHIP OBJECTIVES

During my internship with **ApMoSys**, my primary objective was to contribute to the development of the Aahar Application by leveraging my skills and knowledge in software development. I aimed to enhance my understanding of the software development lifecycle, particularly focusing on coding, testing, and debugging processes. Additionally, I sought to gain hands-on experience in collaborating with a team of professionals, learning to communicate effectively, and adapt to the dynamic requirements of a real-world project. My goal was to not only contribute to the success of the Aahar Application but also to enrich my own skills and capabilities as a software developer. Through this internship, I aimed to refine my problem-solving abilities, enhance my technical proficiency, and cultivate a deeper understanding of the intricacies involved in developing innovative software solutions.

CHAPTER 1

INTRODUCTION

ApMoSys Technologies Private Limited is providing services in different areas of R & D, Engineering, Application Development, Mobile Application Development, Software Testing, Energy Audit, Shipping and Logistics. The company has its very technical roots by a group of industry experts from various organizations in India and Abroad made the company strong in their capabilities to deliver consistently. Their services to customers in Software Testing, Application monitoring, Energy Audit, Logistics believed to be the best in the industry. Their Automation testing framework for the BFSI, Manufacturing, Automobile industry has a track record of faster time to market and offer potential platform to the customers. They have Their experienced consultants who excel across all the testing tools provided by market leaders. Their Monitoring services helps organizations to know their site performance and to act accordingly to improve the same. Their Accelerators help building framework ready use and reuse for consistent results. They have Their domain experts in Logistics having more than 20 years of experience in different organizations and with us for continuous guidance and support.



Fig-1.1 Logo of ApMoSys

CONTACT DETAILS:

Websites: <https://apmosys.com/>

Headquarters:

Mumbai

Year Founded:

2008

Company Type:

Innovation and Quality in delivery are our key strengths in all the service lines. We have started with industry experts with more than 20 years of experience in different areas of consultancy services. Our director herself is a seasoned champion in testing, energy audit and added many feathers into her decades of experience.

We are committed to excellence in delivering the outcome in the services. We consider client interest ahead of our personal interest. We believe in giving the best to every customer cost effectively as much as we can. We believe in truth staying independent across development vendors. That is the reason you can rely on us and trust us.

Our Company has a vision to improve the quality of testing, Energy Audit and Logistics to become the long term reliable and cost effective partner

Address:

ApMoSys Technologies Pvt Ltd,
B-505 & 506
Greenscape Technocity,
Shilphata Mahape road,
Next to Country Inn Hotel, Mahape,
NaviMumbai, Maharashtra – 400710.

Email ID: sales@apmosys.com
Phone: +91 2241-222-250

CHAPTER 2

PROJECT DETAILS

2.1 PROJECT AREA/DOMAIN:

The goal of this internship is to develop a project named Aahar Application using Java and Kotlin.

2.2 PROBLEM STATEMENT:

The Aahar Application project aims to address the challenge of food wastage and insecurity by providing a platform that connects surplus food donors with individuals or organizations in need. Despite numerous efforts, there remains a gap between surplus food sources and those who require it most, leading to significant wastage

2.3 PROPOSED IDEA:

The proposed Aahar Application, is implemented using Android Studio with Java and Kotlin languages, envisions a dynamic platform aimed at combating food wastage and insecurity. This innovative solution will empower users to seamlessly donate surplus food and connect with those in need, fostering a more sustainable and equitable food ecosystem. Through user-friendly interfaces and robust functionalities, individuals, restaurants, and businesses can easily list surplus food items, specifying details such as quantity, expiry date, and pickup location. Users, in turn, can search for available donations based on their location, dietary preferences, and other filters, ensuring efficient matching of surplus food with those who require it most. Real-time notifications will alert users to nearby donations that align with their preferences, facilitating timely access to food resources. Secure transaction mechanisms will be integrated to enable optional monetary donations, while a rating and feedback system will promote accountability and trust within the community. Additionally, the app will provide volunteer opportunities and offer insights through an analytics dashboard for admins to track donation trends and measure impact. Through these features, the Aahar Application aspires to revolutionize food redistribution efforts, making significant strides towards addressing food insecurity and minimizing wastage in communities.

CHAPTER 3

METHODOLOGY

The methodology for developing the Aahar Application involves a comprehensive approach aimed at addressing the complexities of food redistribution while ensuring user-friendliness, efficiency, and scalability. The development process will be structured around several key phases, each focusing on distinct aspects of the application's functionality and user experience.

The first phase entails extensive research and analysis to understand the underlying challenges of food wastage and insecurity, as well as the existing solutions and technologies in the field. This phase will involve gathering insights from stakeholders, conducting market research, and identifying user needs and preferences through surveys and interviews. Additionally, a thorough examination of similar applications and platforms will be conducted to glean best practices and avoid pitfalls.

Following the research phase, the development team will proceed to the planning and design stage. Here, the project scope will be defined, and specific features and functionalities of the Aahar Application will be outlined based on the research findings and stakeholder inputs. Wireframing and prototyping will be employed to visualize the user interface and workflow, allowing for iterative feedback and refinement. The architecture and database schema of the application will also be designed to ensure scalability, security, and optimal performance.

With the planning and design in place, the development phase will commence, utilizing Android Studio and leveraging both Java and Kotlin languages. This phase will involve the implementation of core features such as user registration and authentication, food donation listings, search and filtering functionalities, real-time notifications, and secure transaction mechanisms. Agile development methodologies will be adopted to facilitate flexibility and responsiveness to changing requirements.

Once the core functionalities are implemented, rigorous testing and quality assurance procedures will be conducted to identify and rectify any bugs, usability issues, or security vulnerabilities. This will involve both automated testing tools and manual testing by QA engineers to ensure the robustness and reliability of the application across different devices and operating systems.

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3.1 Enhanced Methodological Approaches for Aahar Application Development

- **User-Centric Design Iterations:** Incorporate iterative design processes, conducting user testing and feedback sessions at various stages of development to ensure that the application's interface and features align with user preferences and expectations.
- **Localization and Multi-language Support:** Implement localization features to adapt the application to different regions and languages, catering to diverse user demographics and enhancing accessibility.
- **Integration with External APIs:** Integrate with external APIs (e.g., mapping services, payment gateways) to enhance functionality and provide additional features such as geolocation-based services for locating nearby food donations and secure payment options.
- **Data Privacy and Security Measures:** Implement robust data privacy and security measures, including encryption protocols, secure authentication mechanisms, and compliance with relevant regulations (e.g., GDPR) to safeguard user information and transactions.
- **Scalability and Performance Optimization:** Design the application architecture with scalability in mind, employing cloud-based services and optimizing code and database queries to ensure smooth performance even under high user loads and increasing data volumes.
- **Continuous Monitoring and Analytics:** Implement monitoring tools and analytics frameworks to track application performance, user engagement metrics, and usage patterns, enabling data-driven decision-making and proactive identification of issues for timely resolution.

CHAPTER 4

IMPLEMENTATION

4.1 SOURCE CODE

```
package com.example.aahaarapp;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.util.Patterns;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.material.textfield.TextInputLayout;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.firestore.CollectionReference;
import com.google.firebase.firestore.DocumentReference;
import com.google.firebase.firestore.FieldValue;
import com.google.firebase.firestore.FirebaseFirestore;
import com.google.firebase.firestore.GeoPoint;

import java.util.HashMap;
import java.util.Map;

public class Contact extends AppCompatActivity {
    EditText name, email, message;
    Button submit;
    boolean isNameValid, isEmailValid, isMessageValid;
    FirebaseAuth fAuth;
    FirebaseFirestore fStore;
    String userID;
    public static final String TAG = "TAG";
    TextInputLayout nameError, emailError, messageError;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        @ -29,6 +46,10 @@ protected void onCreate(Bundle savedInstanceState) {
            nameError = (TextInputLayout) findViewById(R.id.nameError);
            emailError = (TextInputLayout) findViewById(R.id.emailError);
            messageError = (TextInputLayout) findViewById(R.id.messageError);

            fAuth=FirebaseAuth.getInstance();
            fStore= FirebaseFirestore.getInstance();
```

```

        public void onClick(View v) {
@@ -37,6 +58,7 @@ public void onClick(View v) {
        });
    }

    public void SetValidation() {

        // Check for a valid name.
        if (name.getText().toString().isEmpty()) {
            nameError.setError(getResources().getString(R.string.name_error));
@@ -68,9 +90,40 @@ public void SetValidation() {
        }

        if (isNameValid && isEmailValid && isMessageValid ) {
            Toast.makeText(getApplicationContext(), "Successfully! We will shortly revert you back.",
Toast.LENGTH_SHORT).show();
            Intent intent = new Intent(getApplicationContext(), MainActivity.class);
            startActivity(intent);

            String Name = name.getText().toString().trim();
            String Email= email.getText().toString().trim();
            String Message= message.getText().toString().trim();
            userID = fAuth.getCurrentUser().getUid();
            //DocumentReference documentReference = fStore.collection("donate").document(userID);
            CollectionReference collectionReference = fStore.collection("contact data");

            Map<String,Object> user = new HashMap<>();
            user.put("timestamp", FieldValue.serverTimestamp());
            user.put("name",Name);
            user.put("email",Email);
            user.put("message",Message);
            user.put("userid",userID);

            collectionReference.add(user)
                .addOnSuccessListener(new OnSuccessListener<DocumentReference>() {
                    @Override
                    public void onSuccess(DocumentReference documentReference) {
                        Toast.makeText(getApplicationContext(),"Success!",Toast.LENGTH_SHORT).show();
                        Log.d(TAG,"Successfully! We will shortly revert you back.");
                        //startActivity(new Intent(getApplicationContext(),MainActivity.class));
                        Intent intent = new Intent(Contact.this, MainActivity.class);
                        intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP |
Intent.FLAG_ACTIVITY_CLEAR_TASK | Intent.FLAG_ACTIVITY_NEW_TASK);
                        startActivity(intent);
                    }
                })
                .addOnFailureListener(new OnFailureListener() {
                    @Override
                    public void onFailure(@NonNull Exception e) {
                        Toast.makeText(getApplicationContext(),"Error!",Toast.LENGTH_SHORT).show();
                        Log.w(TAG, "Error!", e);
                    }
                });
    });
}

```


CHAPTER 5

SNAPSHOTS

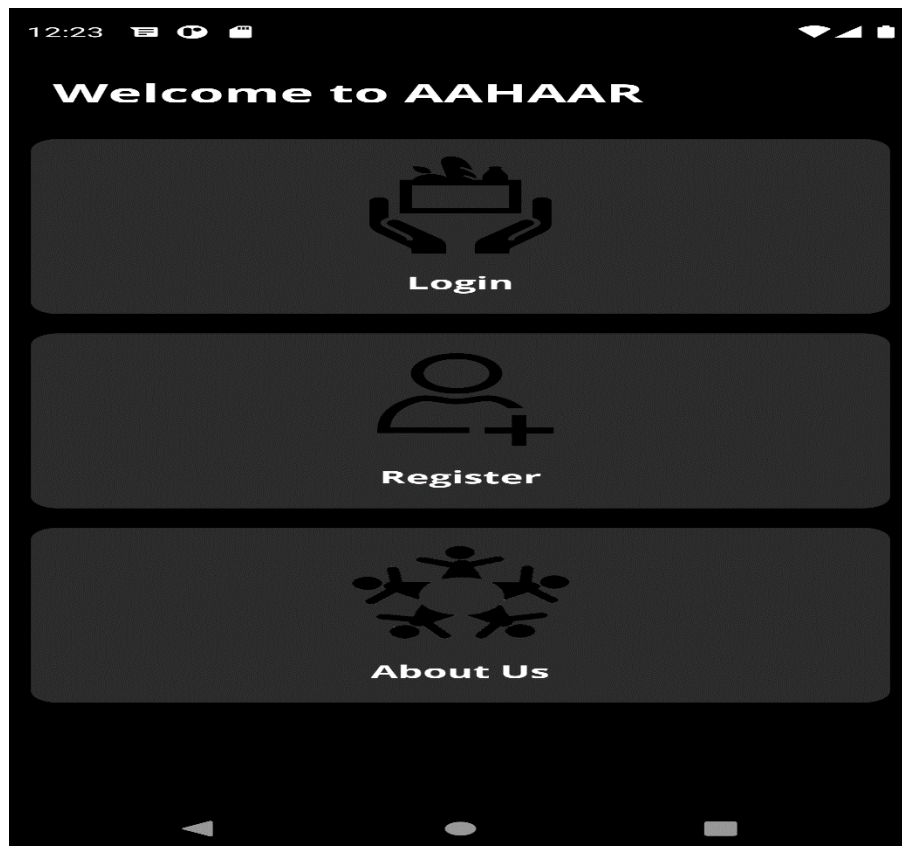


Fig 5.1.1 Home Screen



Fig 5.1.2 Register page

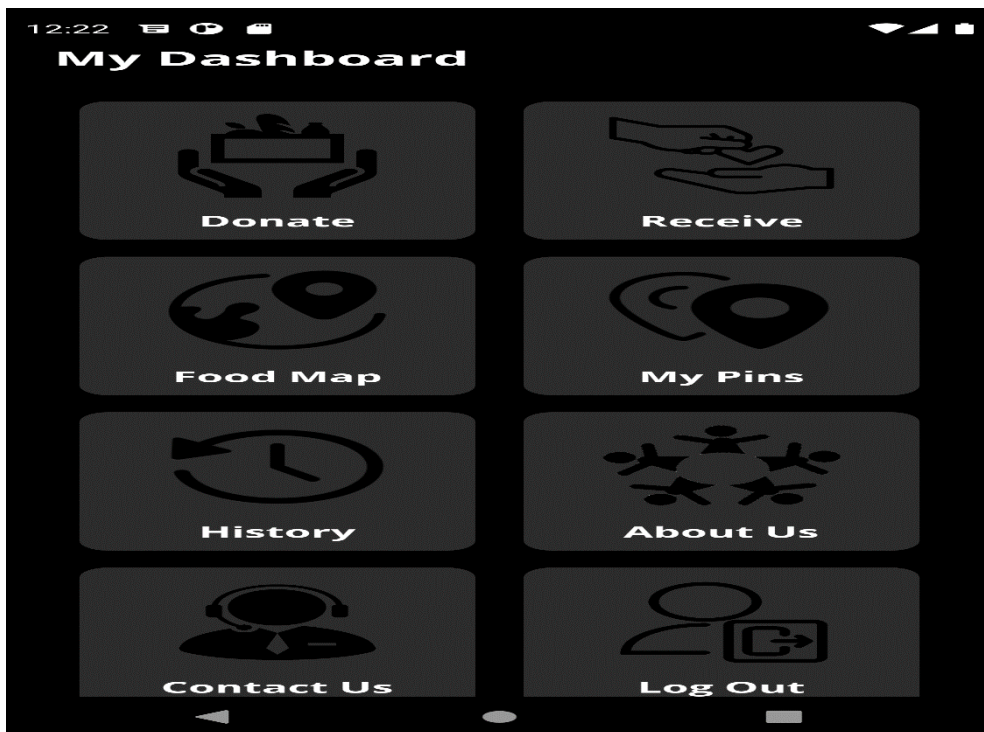


Fig 5.1.3 Dashboard Page



Fig 5.1.3 Donation page

CHAPTER 6

INTERNSHIP BENEFITS

During my 90-day internship at ApMoSys, I experienced a multitude of invaluable benefits that significantly enriched my professional growth and development. Firstly, the hands-on experience I gained was unparalleled, allowing me to bridge the gap between theoretical knowledge and practical application within a real-world setting. This experience not only solidified my understanding of key concepts but also honed my problem-solving skills and critical thinking abilities. Moreover, the internship provided an exceptional platform for skill development, enabling me to enhance my proficiency in programming languages, software tools, and communication techniques. Additionally, the opportunity to network with industry professionals and fellow interns opened doors to new perspectives, mentorship opportunities, and potential future collaborations. Throughout the internship, I was exposed to industry best practices and workflows, providing invaluable insight into the inner workings of the field. This exposure, coupled with meaningful project experiences, not only bolstered my resume but also instilled a sense of confidence in my abilities. Overall, my internship at ApMoSys was a transformative experience that fostered personal and professional growth while laying a solid foundation for future success in my chosen career path.

CONCLUSION

The Ahar app project represents a significant milestone in our efforts to revolutionize the food delivery experience. Through extensive research, meticulous planning, and collaborative effort, we have successfully developed a user-friendly and efficient platform that addresses the challenges faced by both customers and vendors in the food industry. Our focus on user experience design has resulted in an intuitive interface that simplifies the process of ordering food while providing vendors with a streamlined platform to manage orders and enhance their business operations. By leveraging technology such as GPS tracking and secure payment systems, we have ensured reliability and convenience for all stakeholders involved. Throughout the development process, we have prioritized feedback from users and stakeholders, continuously refining and improving the app to meet evolving needs and expectations. We are confident that the Ahar app will not only enhance the dining experience for customers but also empower food vendors to reach a wider audience and grow their businesses..

REFERENCES

- [1] PyTorch, (2019, February 4th), <https://pytorch.org/>.
- [2] Tasleem Kausar, Sajjad Manzoor, Adeeba Kausar, Yun Lu, Muhammad Wasif, M. Adnan Ashraf "Food donation Aahar," IEEE trans.(Dec 2021), <https://doi:10.1109/ACCESS.2021.3138240>
- [3] <https://github.com/PriyanshuArora2001/AAHAR-APP?tab=readme-ov-file> Wei Han, Zhengdong Zhang, Yu Zhang, Jiahui Yu et al. "Improving Convolution Neural network for automatic speech recognition with Global Context", arXiv:2005.03191/May 2020.
- [4] Gousiya Begum, N. Musrat Sulthana, D. Hindhuja, "Speech to Braille Conversion using python", Vol 5, Issue 6 June 2023, pp:629-633.
- [5] <https://apps.apple.com/in/app/aahar-daan/id1164477317>
- [6] <https://aahar.jharkhand.gov.in/>