



Project Report

THAALI CENTER

Developer: Mustafa Bharmal



+91 78178 78653



mustafa.bharmal114768@marwadiuniversity.ac.in



<https://deploythaalisystem-clientvite.onrender.com>

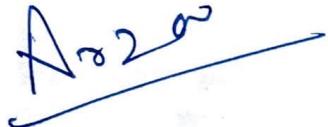


Information and Communication Technology
2023-24
CERTIFICATE

This is to certify that the project entitled **Thaali Center** has been carried out by **Mustafa Bharmal(92100133078)** under my guidance in partial fulfillment of the degree of Bachelor Engineering in Information and Communication Technology (6th Semester) of Marwadi University, Rajkot during the academic year 2023-24.

Date : 03-05-2024

Internal Guide



Mr. Shamsagazarzoo Alam
Subject Co-ordinator
C.T.O. Ally Soft Solutions

Head of the Department



Prof . C. D. Parmar
Head of Department ICT
Engineering

 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Technology: MERN + JAVA	Name: Mustafa Bharmal	
Project Report: Thaali Center	Date: 03-05-2024	Enrolment No:92100133078

Abstract

The Thaali Center project represents an innovative software solution aimed at empowering businesses and communities through streamlined user, community, and menu management functionalities. Leveraging modern technologies such as React, Express, and MongoDB, the Thaali Center provides an intuitive platform designed to enhance operational efficiency, ensure data security, and promote user satisfaction.

The primary goal of the Thaali Center is to facilitate seamless management of users, communities, and menus within a robust and user-friendly environment. By integrating features like user account management, community operations, and menu administration, the system offers comprehensive tools for organizations and communities to organize and optimize their operations effectively.

Key components of the Thaali Center include:

- User Management: The system allows for effortless creation, updating, and deletion of user profiles, ensuring efficient user account management.
- Community Management: Community administrators can add, update, and maintain community data with ease, fostering better community engagement and organization.
- Menu Management: The Thaali Center supports advanced menu management functionalities, enabling users to create, update, and delete menus seamlessly, with special support for the Gujarati language.
- Data Security: Security is a top priority, with robust measures in place to protect user, community, and menu information from unauthorized access.
- Multilingual Support: The system is designed to enhance accessibility by supporting interactions and menu management in multiple languages, including Gujarati.
- Continuous Improvement: Feedback mechanisms are integrated to gather insights from users and communities, driving ongoing system enhancements and improvements.

Through its user-centric design, the Thaali Center aims to optimize workflow efficiency, foster community collaboration, and promote cultural inclusivity. With a responsive and secure platform, organizations and communities can confidently manage their resources, operations, and engagements, contributing to sustainable growth and development.

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Technology: MERN + JAVA	Name: Mustafa Bharmal	
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Project Description: Thaali Center

The Thaali Center project is a comprehensive software solution developed to address the management needs of businesses and communities, specifically focusing on user, community, menu management, feedback requests, and complaint handling. This description outlines the project's purpose, requirements, key features, and the technologies utilized.

The Thaali Center aims to streamline operations and enhance productivity by providing a centralized platform for managing users, communities, menus, feedback requests, and complaints. It facilitates efficient data management, user engagement, and resolution of customer feedback, catering to the needs of organizations and community initiatives.

Needs:

User Management: Simplified user account management with features for adding, updating, and deleting user profiles.

Community Operations: Effective community management tools for creating, updating, and maintaining community data.

Menu Administration: Advanced menu management functionalities, including creation, updates, and multilingual support (specifically in Gujarati).

Feedback Requests: Integration of feedback mechanisms to gather insights and enhance system functionality.

Complaint Handling: Module for managing and resolving customer complaints efficiently.

Key Features:

User Management:

- Create, update, and delete user profiles.
- Maintain user information securely.

Community Management:

- Add, update, and manage community data.
- Foster community engagement and organization.

Menu Management:

- Create, update, and delete menus effortlessly.
- Support for menu interactions in the Gujarati language.

Feedback Requests:

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- Integrate feedback forms and mechanisms to gather user insights.
- Implement features for continuous system improvement based on feedback.

Complaint Handling:

- Provide a module for customers to submit complaints.
- Streamline complaint resolution processes and ensure timely responses.

Data Security:

- Implement robust security measures to protect user and community information.

Multilingual Support:

- Enhance accessibility by supporting menu interactions in multiple languages.

Technologies and Tools Used:

Frontend: React.js for building the user interface.

Backend: Express.js for server-side logic and API endpoints.

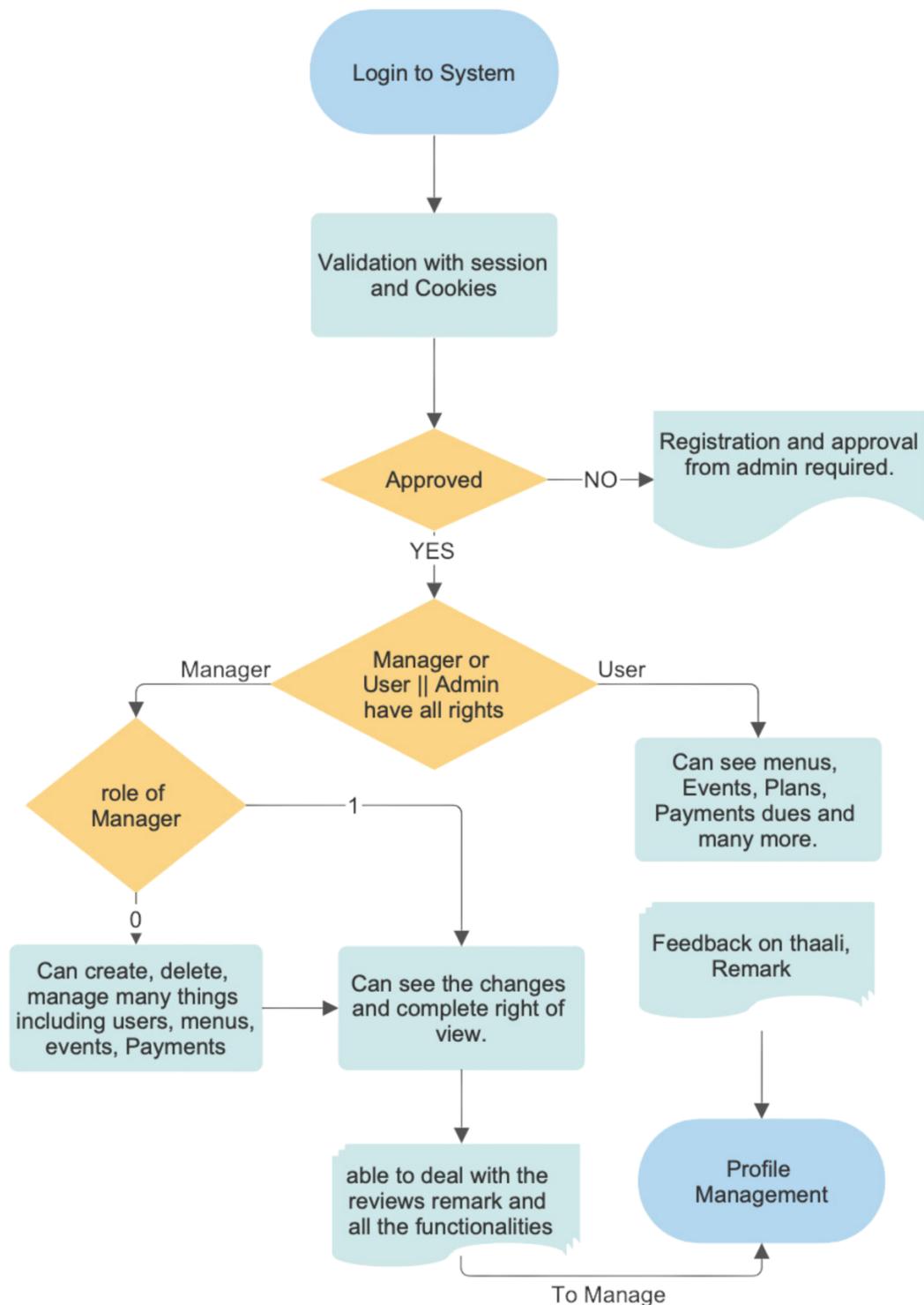
Database: MongoDB for data storage and management.

Additional Tools: Axios for HTTP requests, Bootstrap for responsive design, and various npm packages for project dependencies.

The Thaali Center project addresses the need for a comprehensive management system tailored to the unique requirements of businesses and communities. By leveraging modern technologies and best practices, the system aims to optimize workflow efficiency, promote user engagement, and facilitate effective customer feedback management and complaint resolution.



Flowchart Diagram:





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Screenshots:

Dashboard for Admin/ Manager/ Users:

The dashboard provides an overview of the system's performance across different dimensions. Key metrics displayed include:

- Users:** 7 (All Data)
- Community:** 2 (8%)
- Variety:** 3 (0%)
- Menus:** 10 (4%)
- Conversion rate:** 7%
- Upcoming Menus:** Date 2024-05-04, Name mag nu sak, Khichdi, Roti (roti will be 8 in thaali), Gujarati Name માગ નું શાસ, અરીયાંડી, રોટી
- Requests:** 13 Requests (11 waiting requests)
- Feedbacks:** 6 Feedbacks (5 waiting feedbacks)
- Complaints:** 4 Complaints (3 waiting complaints)
- Head Count:** 13 Head Count in Thaali Center

User Management for Admin/ Manager:

The user management interface allows administrators to view and manage user profiles. The table below shows the current list of users:

Name	Email Id	Phone Number	Address	Role	Community	Head Count	Thaali User
Mustafa Bharmal	mustafa@admin.com	7817878653	Raj Villa, Sommath Road, Upleta, 360490	Admin	N/A	4	Thaali User
Mustafa Manager	mustafa@manager.com	7817878653	near Jikarai Chowk, Upleta	Manager	Upleta	1	Thaali User
Mustafa User	mustafa@user.com	7817878653	mustafa User, Upleta	User	Upleta	1	Thaali User
mustafa original	mustafa.bharmal178@gmail.com	123523	342223	Unknown role	Rajkot - Indira Area	1	Non Thaa User



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Variety Management for Admin/ Manager:

New Variety

Variety Name *

communityid *

Gujarati Name *

calories *

Description

+ Create new Variety

Menu Management for Admin/ Manager/ User:

OVERVIEW

Menu

+ Create Menu

April 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31		1 adsfkljkl (fasfsd) Gujarati: મુંગ રાણી Calories: 1	2	3	4	5
7	8	9	10	11	12	13
14	15 Gujarati Dal, Chawal, dahi, Salad (Dahi quantity 150ml) Gujarati: ગુજરાતી દાલ, ચાવાળ, ડહી, સલાડ Calories: 250	16 mag nu sak, Khichdi, Roti (roti will be 6 in thali) Gujarati: મગ નુ શક, ખિચ્દી, રોટી Calories: 650	17 mag nu sak, Khichdi, Roti (roti will be 8 in thali) Gujarati: મગ નુ શક, ખિચ્દી, રોટી Calories: 750	18 Gujarati Dal, Chawal, dahi, Salad (Dahi quantity 150ml) Gujarati: ગુજરાતી દાલ, ચાવાળ, ડહી, સલાડ Calories: 250	19 mag nu sak, Khichdi, Roti (roti will be 8 in thali) Gujarati: મગ નુ શક, ખિચ્દી, રોટી Calories: 750	20
21 mag nu sak, Khichdi, Roti (roti will be 8 in thali)	22 Gujarati Dal, Chawal, dahi, Salad (Dahi quantity 150ml)	23 Sabji (dal chaval) Gujarati: સબજી (દાલ ચાવાળ)	24	25	26	27



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Feedback Management for Admin/ Manager/ User:

The screenshot shows a web-based application titled "Feedback" running on "localhost:5173/Feedback". The top navigation bar includes links for Home, User, Community, Variety, Menus, Requests, Feedback (which is currently selected), Complain, Settings, and Logout. A search bar and a user profile for "mustafa original Admin" are also present. Below the navigation is a table titled "OVERVIEW Feedback" with a "Create new Feedback" button. The table has columns for User, Title, Description, Date, Status, and Action. It lists five entries, each with a status indicator (Pending, Completed, Will be Done) and three action buttons (Edit, Delete, Approve). The footer contains links for Documentation, License, Source code, and Made With ❤️, along with a copyright notice for 2024.

User	Title	Description	Date	Status	Action
mustafa original	Uplete	my first	2024-04-21	Pending	
mustafa original	Rajkot - Indira Area	fghjk feedback	2024-04-22	Completed	
mustafa original	Uplete	asddaa	2024-04-21	Will be Done	
mustafa original	Rajkot - Indira Area	adasd	2024-04-22	Will be Done	
mustafa original	Uplete	adasd	2024-04-21	Pending	



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Code:

Varirty Module for Admin/ Manger with Gujarati Translation:

```
const authCtx = useContext(AuthContext);
const isAdmin = authCtx.role === 0 || authCtx.role === "0";
const isManager = authCtx.role === 1 || authCtx.role === "1";
const isUser = authCtx.role === 2 || authCtx.role === "2";
const [formData, setFormData] = useState({
  name: "",
  calories: 1,
  description: "",
  gujaratiName: "",
  communityid: isManager ? authCtx.communityid : "0",
  status: 1,
  createdat: Date.now(),
  updatedat: Date.now(),
});
const [ComValues, setComValues] = useState([]);
// let input3 = formData.gujaratiName;
// enableTransliteration(input3, "gu");

// useEffect(() => {
//   fetchComData();
//   enableTransliteration(input3, "gu");
// }, []);
useEffect(() => {
  isAdmin && (fetchComData());
  const input = document.getElementById('data');
  enableTransliteration(input, 'gu');
  // console.log(input.value)
  return () => {
    // Clean up the transliteration when the component unmounts
    //   input.transliterator.disable();
    disableTransliteration(input);
  };
}, []);

const handleKeyUp = (e) => {

  setFormData((prevData) => ({
    ...prevData,
    gujaratiName: e.target.value,
  }));
  console.log(formData.gujaratiName);
};

const fetchComData = async () => {
  try {
    const response = await axios.get('http://localhost:3000/community', {
      headers: {
        authorization: `Mustafa ${authCtx.token}`,
      },
      withCredentials: true,
    });
    const transformedData = response.data.map(item => ({
      _id: item._id,
      name: item.name,
      address: `${item.address}`,
      status: item.status,
    }));
    setComValues(transformedData);
  } catch (error) {
    console.error(error);
  }
};
```



```
        createdat: item.createdat,
        updatedat: item.updatedat,
    }));
}

setComValues(transformedData);
} catch (error) {
    console.error('Error fetching data:', error);
}
};

const handleChange = (e) => {
    const { name, value } = e.target;
    setFormData((prevData) => {
        // Convert strings to integers for specific fields
        const intValue = [
            ].includes(name)
                ? parseInt(value, 10)
                : value;

        // Format date fields
        const formattedValue = name.endsWith("at")
            ? new Date(value).toISOString()
            : intValue;
        console.log(formattedValue);
        return {
            ...prevData,
            gujaratiName: document.getElementById('data').value,
            [name]: formattedValue,
        };
    });
};

const handleSubmit = async (e) => {
    e.preventDefault();
    // console.log(formData);
    try {
        setFormData((prevData) => ({
            ...prevData,
            gujaratiName: document.getElementById('data').value,
            createdat: new Date().toISOString(),
            updatedat: new Date().toISOString(),
        }));
        // console.log(formData);
        const response = await fetch("http://localhost:3000/variety/add", {
            method: "POST",
            headers: {
                authorization: `Mustafa ${authCtx.token}`,
                "Content-Type": "application/json",
            },
            body: JSON.stringify(formData),
        });
        if (response.ok) {
            console.log("User created successfully");
            window.location.reload();
        } else {
            console.error("Failed to create user");
        }
    } catch (error) {
        console.error("Error:", error);
    }
};
}
```

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Thaali Center: Future Enhancements

The Thaali Center is designed to evolve and adapt to the changing needs of users and communities. Future enhancements aim to enrich functionality, improve user experience, and ensure scalability. Here are potential future upgrades for the Thaali Center:

Integration of Analytics Dashboard

- Implement a comprehensive analytics dashboard to visualize user engagement, community trends, and menu preferences.
- Leverage data insights for informed decision-making and strategic planning.

Enhanced Multilingual Support

- Extend language support to include additional regional languages, catering to diverse user preferences.
- Enable seamless interaction with menus and system interfaces in multiple languages.

Automated Feedback Analysis

- Develop automated sentiment analysis tools to process user feedback and identify actionable insights.

Real-time Community Interaction Features

- Introduce real-time communication features for community members to collaborate, share updates, and organize events.
- Foster community engagement through interactive features and notifications.

Mobile Application Development

- Develop a dedicated mobile application for convenient access to Thaali Center features on smartphones and tablets.
- Optimize user experience with native app functionalities and offline capabilities.

Enhanced Security Measures

- Implement advanced security protocols, such as multi-factor authentication and encryption, to safeguard user data and system integrity.

Integration with IoT Devices

- Explore IoT integration for smart kitchen solutions, enabling automated menu updates and inventory management.

These future enhancements aim to elevate the Thaali Center into a robust, feature-rich platform that empowers users, fosters community engagement, and delivers unparalleled value to stakeholders. Each upgrade aligns with the project's vision of innovation and excellence in management solutions.

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References:

References for the Thaali Center project encompass a range of sources that have contributed to the development, implementation, and enhancement of the system. These references include:

React Documentation

- Official documentation for React.js, used for building the frontend interface of the Thaali Center.
- Website: [React Documentation](#)

Express.js Documentation

- Official documentation for Express.js, utilized for developing the backend server and APIs.
- Website: [Express.js Documentation](#)

MongoDB Documentation

- MongoDB documentation providing guidance on schema design, queries, and database operations.
- Website: [MongoDB Documentation](#)

PrimeReact Documentation

- Documentation for PrimeReact, offering UI components and tools used to create the Thaali Center's frontend.
- Website: [PrimeReact Documentation](#)

Bootstrap Documentation

- Bootstrap documentation for designing responsive and attractive user interfaces.
- Website: [Bootstrap Documentation](#)

Java Spring Boot Documentation

- Documentation for Java Spring Boot, utilized for developing the feedback and complaint modules.
- Website: [Spring Boot Documentation](#)

Software Engineering Best Practices

- Various resources and textbooks on software engineering principles, design patterns, and best practices followed during development.
- Example: "Clean Code: A Handbook of Agile Software Craftsmanship" by Robert C. Martin

These references serve as valuable sources of information, guidance, and inspiration throughout the lifecycle of the Thaali Center project, ensuring adherence to industry standards, efficiency in development, and continuous improvement of the system.