

# Internship Report

on

Website for RTS Comission of Maharashtra

by

**VAISHNAVI L. NATHE**

(TE-IT Roll No:43 Year:2023-24)

15 March 2024

Guided by

Prof. Y. S. Algat



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## CERTIFICATE

This is to certify that the internship project entitled "RTS Comission Website" submitted by **Vaishnavi Nathe** (Roll No. 43) is a record of bonafide work carried out by her under our supervision and guidance at MahaIT company. The project was completed in partial fulfillment of the requirements for the TE (Information Technology) 2019 course of Savitribai Phule Pune University, Pune, in the academic year 2023-2024.

Date: March 15, 2024

Place:Nashik

**Prof Y.S.Algat**

Guided By

# COMPLETION LETTER

|   |  |
|---|--|
|    | <b>Maharashtra Information Technology Corporation Ltd.</b><br>(A GOVERNMENT OF MAHARASHTRA ENTERPRISE) |
| Date: 1st Feb 2024  |  |
| To,   |  |
| Vaishnavi Nathe   |  |
| KK WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH NASHIK  |  |
| <p>This is to certify that Ms Vaishnavi Nathe, a student of KK Wagh Institute of Engineering Education and Research, Nashik, has successfully completed her Internship as a Web Developer at Maharashtra Information Technology Corporation Ltd (Mahait). The duration of the Internship was from 15th Dec 2023 to 30th Jan 2024.</p> <p>During this period, Vaishnavi was part of an internship program that involved working on a real time project. Used her web development skills to create a user-friendly and responsive website. She also collaborated with other developers and testers to ensure the quality and functionality of the website.</p> <p>Vaishnavi showed a high level of creativity and professionalism in her work. She was always keen to learn new things and improve her skills. Her contribution to the project was valuable and we appreciate her efforts. We wish her all the best in her future endeavours.</p> |  |
| Sincerely,  |  |
| Rahul Nathe   |  |
| (Project Manager)   |  |
|    |                     |
| <p>Office Address : 3rd Floor, Apeejay House, Near KC College, Churchgate, Mumbai - 400 020   Tel : 022 45121900<br/>E-mail : info.mahait@mahait.org   Website : www.mahait.org   CIN : U74999MH2016SGC286591   GSTIN : 27AAKCM0006L1ZG</p>   |  |

# Acknowledgement

I am very grateful to MahaIt for granting me the opportunity to intern at their prestigious organization. Throughout my internship, I've been privileged to witness MahaIt's unwavering dedication to pushing boundaries in innovation and ensuring client satisfaction. Their proactive approach to adopting the latest technological advancements and industry trends truly sets them apart as pioneers in web development.

I am appreciative of the supportive and collaborative work culture at MahaIt, which has provided a conducive environment for my professional growth and development. My internship experience at MahaIt has been incredibly enriching and rewarding, offering invaluable insights into the intricacies of web development and further fueling my passion for the field.

I extend my deepest gratitude to everyone at MahaIt who has contributed to making my internship experience memorable and impactful.

Vaishnavi Nathe

# About Company

MahaIt(Maharashtra Information Technology Corporation Ltd.)is the company which is completely owned by the Government Of Maharashtra.this company is established under company act 2016.MahaIt is entitled to execute all the state projects,Provides manpower resources to all departments of state.

MahaIt is contemplated to act as the nodal agency of Government of Maharashtra to bolster efficient and effective implementation of ICT initiatives and to establish a robust e-Governance eco-system framework.

MahaIt is work to advise the State Government of Maharashtra on various matters like devising and implementing strategies, policies, guidelines, processes to develop 'Smart Cities', 'Digital Villages', 'Bharatnet', 'Digital India', 'Cyber Security' and similar projects under the respective programs initiated by the Government of India.

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# 1 Introduction

During my internship at MahaIt, a renowned entity in the realm of web development, I have been fortunate to immerse myself in an environment pulsating with innovation and creativity. From the very outset, MahaIt's commitment to pushing the boundaries of web development has been palpable, setting the stage for an enriching and dynamic learning experience. As a web developer intern, I have had the privilege of contributing to the projects spearheaded by MahaIt's talented team while simultaneously honing my skills and expanding my knowledge base.

Throughout my tenure at MahaIt, I have been deeply impressed by the company's unwavering dedication to excellence and client satisfaction. The emphasis placed on staying ahead of the curve by embracing the latest technological advancements and industry trends is a testament to MahaIt's forward-thinking approach. This commitment to innovation has not only inspired me but has also provided me with a unique opportunity to witness firsthand how cutting-edge technologies are harnessed to deliver exceptional solutions to clients.

My internship experience at MahaIt has been nothing short of transformative. From collaborating with seasoned professionals to delving into the intricacies of web development frameworks, each day has been filled with opportunities for growth and learning. The supportive and collaborative work culture at MahaIt has fostered an environment where ideas are valued, creativity is encouraged, and challenges are viewed as opportunities for personal and professional development.

## **2 Problem Statement**

### **2.1 Creating Website for RTS (Right to Service) Commission of Maharashtra**

The problem statement for this internship project revolves the creation of userfriendly simple attractive website for official users.for undertake the online Annual survey reports from the officers of all District.

#### **2.1.1 Overview**

This project is to establish a dedicated website catering to the needs of officers affiliated with the RTS Commission of Maharashtra. Tasked primarily with providing essential services to citizens, the commission conducts annual surveys across its offices to evaluate operational efficacy within each district. Recognizing the impracticality of traditional pen-and-paper documentation in this digital age, the initiative aims to revolutionize the survey process by introducing a bespoke online platform.

This official website for the RTS Commission is meticulously designed to address the challenges posed by conventional survey methods. By leveraging digital tools and technologies, the platform offers a streamlined solution for officers to submit their survey responses effortlessly. Through the integration of user-friendly open-source survey forms, officers can efficiently provide critical feedback on their district's operations, thereby contributing to a more comprehensive understanding of service delivery across Maharashtra.

The website doesn't merely serve as a conduit for data collection. It also provides value-added features such as immediate access to contact details upon form submission for users and comprehensive data analytics tools for administrators. This ensures not only ease of communication but also empowers decision-makers with invaluable insights derived from the collected data. By centralizing the survey process and embracing digital innovation, the website represents a significant leap forward in enhancing efficiency, transparency, and effectiveness within the RTS Commission's operations.

The website serves as a centralized platform, enhancing the efficiency and effectiveness of survey processes within the commission's operations.



### 2.1.2 Objectives

The primary goal of the project is to develop a website tailored for officers of the RTS Commission of Maharashtra, which primarily functions as a service provider for citizens. Annually, the commission conducts official surveys in its offices to assess the operations in each district. Recognizing the limitations of traditional pen-and-paper documentation, the project aims to address this issue by creating an official website for the RTS Commission. This website integrates user-friendly functionalities, including open-source survey forms, to facilitate efficient data collection. Users are provided with contact details upon form submission, while administrators gain access to comprehensive user data for analysis and reporting purposes. Main objectives are:

**1.Creating Simple user-friendly UI pages includes Contact, About pages:** The Contact page offers visitors a user-friendly interface to easily connect with the website administrators. It provides a clear and accessible form for inquiries or feedback submission, alongside contact details such as email addresses and phone numbers, ensuring seamless communication.

Meanwhile, the About page serves as a concise introduction to the website or organization, outlining its purpose, mission, and key details. It offers insight into the team or individuals behind the project, their expertise, and relevant background information, fostering credibility and trust with visitors.

**2.Design open Source Questionnaires Forms for Department Officers:** Designing open-source questionnaire forms for department officers within the RTS Commission entails creating customizable survey templates using open-source platforms. These forms will serve as tools for gathering feedback and insights from officers across various departments within the commission. By utilizing open-source solutions, the commission ensures flexibility, scalability, and accessibility in survey creation and distribution.

Overall, the design of open-source questionnaire forms for department officers within the RTS Commission aims to foster transparency, collaboration, and continuous improvement within the organization's operations. By harnessing the power of open-source technology, the commission can effectively harness the collective knowledge and insights of its officers to drive positive change and better serve the citizens of Maharashtra.

**3.Handle Database Efficiently:** The primary objective of integrating a database handling functionality into the open-source questionnaire form system is to efficiently manage and store the data collected from department officers within the RTS Commission. By incorporating database capabilities, the system can securely capture, organize, and retrieve survey responses, ensuring the integrity and accessibility of valuable feedback and insights.

Overall, by incorporating database handling functionality into the open-source questionnaire form system, the RTS Commission can establish a robust infrastructure for data management, analysis, and decision-making. This objective aligns with the commission's goal of leveraging technology to enhance transparency, collaboration, and continuous improvement within its operations, ultimately benefiting the citizens of Maharashtra.

**4.Create Dashboard of dynamic data:** The creation of a dynamic data dashboard visible to administrators is a key objective of the project, aimed at providing real-time insights and analytics derived from the collected survey data. This dashboard serves as a centralized hub for administrators within the RTS Commission, offering a comprehensive overview of various key performance indicators and trends across departments and districts.

The dashboard incorporates user authentication and access control mechanisms to ensure data security and confidentiality. Only authorized administrators have privileged access to the dashboard, safeguarding sensitive information and maintaining regulatory compliance.

Overall, the creation of a dynamic data dashboard for administrators represents a significant enhancement in the commission's data-driven decision-making capabilities. By providing real-time visibility into survey data and performance metrics, the dashboard enables proactive management, fosters transparency, and supports continuous improvement initiatives within the RTS Commission.

### **2.1.3 Scope and Rationale of the Study**

The rationale for initiating the RTS Commission website project arises from the imperative need for modernization and digitalization within governmental agencies, especially in the realm of citizen services and administrative

processes. In an increasingly digitized world, establishing an online presence is crucial for government entities to enhance accessibility, transparency, and efficiency in their operations. The RTS Commission website serves as a vital platform to streamline communication channels, facilitate data collection, and improve service delivery to citizens across Maharashtra.

The motivation behind this project is driven by the recognition of the challenges inherent in traditional administrative methods, such as paper-based documentation and manual processes. By transitioning towards an online platform, the RTS Commission aims to modernize its operations, reduce bureaucratic hurdles, and enhance citizen engagement. The website will serve as a central hub for accessing information, submitting inquiries, and participating in surveys, thereby fostering greater transparency and accountability within the commission's activities.

The scope of the study encompasses designing and developing a user-centric website that prioritizes ease of navigation, accessibility, and interactivity. By focusing on user experience and interface design principles, the website aims to create a seamless and intuitive browsing experience for officers and citizens alike. Through dynamic features such as interactive survey forms, real-time data dashboards, and personalized user accounts, the website seeks to enhance engagement and empower stakeholders to actively participate in the commission's initiatives.

In summary, the RTS Commission website project aims to leverage digital technologies to modernize administrative processes, improve citizen services, and foster greater transparency and engagement. By embracing the principles of user-centered design and interactivity, the website will serve as a catalyst for positive change within the commission, aligning with its mission to deliver efficient and accessible services to the people of Maharashtra.

#### **2.1.4 Methodological Details**

Methodology adopted for the website development project for the RTS Commission involves a systematic approach aimed at ensuring user-friendly design, functionality, and relevance to the commission's objectives.

1. Requirement Analysis: The project begins with a comprehensive analysis of the requirements and objectives of the RTS Commission. This involves

understanding the commission's mission, target audience, and specific needs related to data collection, analysis, and reporting.

2. **User Interface Design:** Following the requirement analysis, the project proceeds with the design phase, where the focus is on creating a user-friendly interface for the website. This involves developing rough prototype to visualize the layout, structure, and navigation flow of the website.

3. **Color Scheme and Visual Identity:** A cohesive color palette is selected to establish a visually appealing and professional identity for the website. This ensures consistency across all pages and enhances brand recognition for the RTS Commission.

4. **Content Structure:** The website's content structure is carefully planned to ensure clarity and relevance. Sections such as Home, About, Services, Contact, and Survey Forms are identified based on the commission's information hierarchy and user expectations.

5. **Functionalities Integration:** Key functionalities are integrated into the website to enhance usability and functionality. This includes the implementation of online survey forms using open-source platforms, contact forms for user inquiries, and dynamic data dashboard visible to administrators for real-time insights.

By this methodology, the website development project for the RTS Commission ensures a systematic and structured approach to deliver a user-friendly, functional, and relevant online platform that supports the commission's objectives of efficient data collection, analysis, and service delivery.

### 2.1.5 Used Technologies

For developing Web site used MERN Technology stack which is stands for (MongoDB,Express.js,React.js and Node.js)

**MongoDB:** MongoDB is a NoSQL database that stores data in a flexible, JSON-like format. It is utilized in the RTS Commission website project for storing and managing survey data collected from officers across districts. MongoDB's document-oriented structure allows for efficient handling of unstructured or semi-structured data, making it well-suited for dynamic survey responses.

**Express.js:** Express.js is a minimalist web application framework for Node.js, providing robust features for building server-side applications. In the RTS

Commission website, Express.js is used to handle HTTP requests, route requests to the appropriate

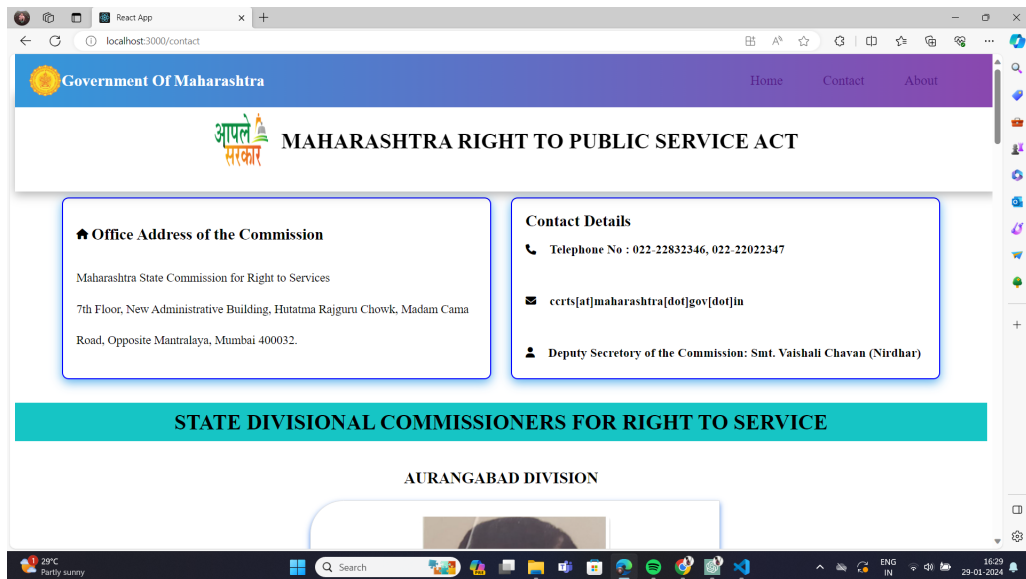
**React.js:** React.js is a JavaScript library for building user interfaces, known for its component-based architecture and virtual DOM rendering. In the RTS Commission website project, React.js is utilized for creating interactive user interfaces, including survey forms, data visualization dashboards, and dynamic content displays.

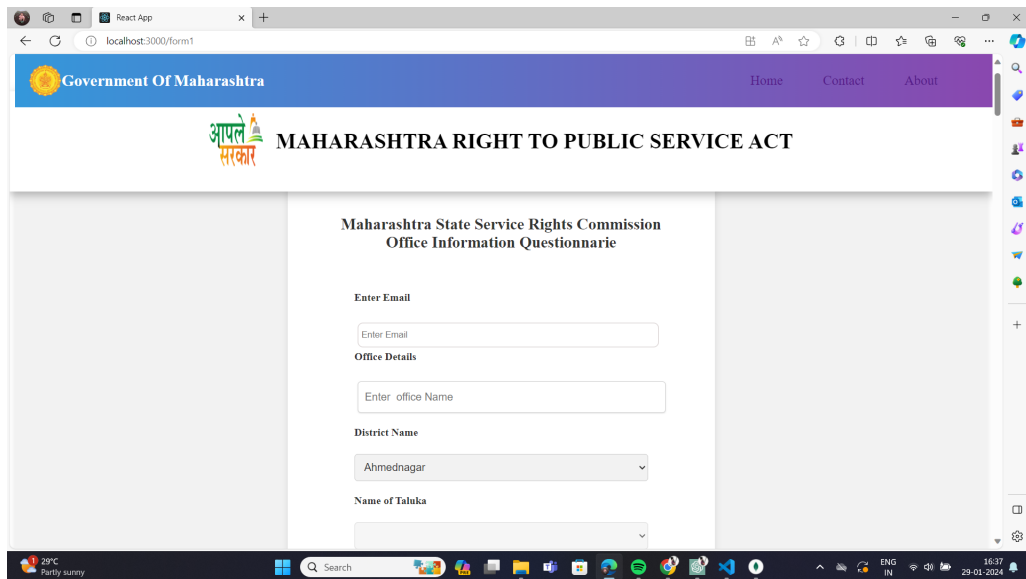
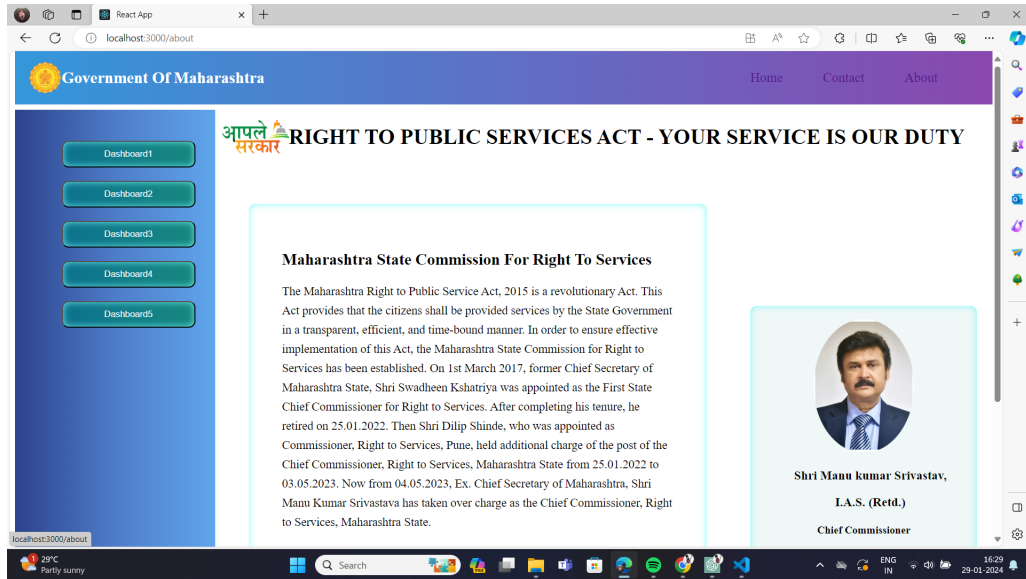
**Node.js:** Node.js is a runtime environment for executing JavaScript code on the server-side, built on the V8 JavaScript engine. In the RTS Commission website project, Node.js serves as the backend runtime environment, enabling server-side scripting and handling of asynchronous tasks. Its event-driven, non-blocking I/O model facilitates efficient handling of concurrent requests, ensuring optimal performance for real-time data processing and communication.

#### 2.1.6 Weekly Analysis

Attendance Record from 15 Dec to 31 January:

- Week1 : Completed website layout designing
- Week2 : Designed form schema and implemented open-source form
- Week3 : Completed form validation and backend server setup
- Week4: Completed database handling and backend server integration
- Week5: Designed dashboard interface
- Week6: Finalized dashboard implementation
- Week7: Project review and documentation





React App

localhost:3000/dashboard5

HomeContactAbout

Government Of Maharashtra

Form5 Data Dashboard

| Department | Report period | No of second appeals pending till March 2023 | No of second appeals received during the reporting month | No of offline second appeals received | Number of Appeals | No of second appeals disposed of within period | No of second appeals disposed of after period | No of second appeals pending at the end of the reporting month | Head of department | place  | Date       |
|------------|---------------|--|--|---------------------------------------|-------------------|--|---|--|--------------------|--------|------------|
| economic   | 2024-01-28    | 51   | 23   | 5                                     | 8                 | 56   | 10  | 12   | kishor kothare     | nashik | 2024-01-28 |
| healthcare | 2024-01-29    | 61   | 33   | 46                                    | 74                | 52   | 90  | 118  | Neil pradhan       | pune   | 2024-01-29 |

29°C

Partly sunny

Search

ENG IN

16:30

29-01-2024



### **3 Result**

The successful implementation of dynamic features such as online survey forms, real-time data dashboards, and personalized user accounts underscores the website's ability to facilitate data-driven decision-making and streamline administrative processes.

The RTS Commission website represents a significant milestone in advancing the commission's mission of delivering efficient and accessible services to the citizens of Maharashtra. It reflects not only the culmination of technical expertise and innovation but also the commission's unwavering commitment to serving the public interest. Moving forward, the website will continue to evolve and adapt to meet the evolving needs of both officers and citizens, further enhancing the commission's effectiveness and impact in the digital age.

## 4 Conclusion

During the internship, I focused on a project, which provided an immersive learning experience in web development. This project entailed the creation of a functional website from scratch, incorporating various elements such as user interface design, backend development, and database management.

The internship was a rewarding journey that significantly contributed to skill development and readiness for future endeavors in web development. The projects completed during the internship not only showcase acquired skills and knowledge but also serve as a testament to dedication, creativity, and passion for the field. Moving forward, the lessons learned and experiences gained will undoubtedly serve as a solid foundation for further exploration and advancement in the dynamic world of web development.

This live project served as an invaluable platform for honing my skills and deepening my understanding of web development concepts. It encapsulates not only the technical competencies acquired but also underscores my dedication and passion for this field. Moving forward, the lessons learned from this project will undoubtedly serve as a solid foundation for my future endeavors in web development.

## 5 References

- [1]Building a MERN (MongoDB, Express, React, Node.js) CRUD Application: [https://www.tutorialspoint.com/mern\\_stack.html/](https://www.tutorialspoint.com/mern_stack.html/)
- [2]MDN Web Docs - JavaScript Guide: [https://developer.mozilla.org /en-US/docs/Web/JavaScript/Guide](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide)
- [3]Node.js Official Documentation: <https://nodejs.org/>
- [5] Express.js Official Documentation: [https://expressjs.com/ web-design/basic-html-and-html5/](https://expressjs.com/web-design/basic-html-and-html5/)
- [6]The MERN Stack Tutorial - Building A React CRUD Application From Start To Finish: <https://codingthesmartway.com/the-mern-stack-tutorial-building-a-react-crud-application-from-start-to-finish/>