

Foodbank Project using Nodejs, PostgreSQL

Internship Report

Submitted for the partial fulfilment of the degree of

Bachelor of Technology

In

Engineering Mathematics & Computing

Submitted By

Harshit Sodhani

0901MC201029

UNDER THE SUPERVISION AND GUIDANCE OF

Dr. Jitendra Kumar

Associate Professor

Department of Engineering Mathematics and Computing



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

Deemed to be University
NAAC ACCREDITED WITH A++ GRADE

January-June 2024

DECLARATION BY THE CANDIDATE

I hereby declare that the work entitled **Foodbank project using Nodejs, PostgreSQL** is my work, conducted under the supervision of **Dr. Jitendra Kumar, Associate Professor**, during the session Jan-May 2024. The report submitted by me is a record of bonafide work carried out by me.

I further declare that the work reported in this report has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



Harshit Sodhani
0901MC201029
B.Tech. VIII Sem

Date: 20-05-2024

Place: Gwalior

This is to certify that the above statement made by the candidates is correct to the best of my knowledge and belief.

Guided By:



Dr. Jitendra Kumar
Associate Professor
Department of Engineering Mathematics & Computing
MITS, Gwalior

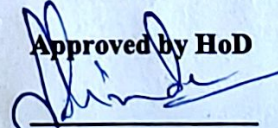
Departmental Project Coordinator



Dr. D.K. Jain
Professor

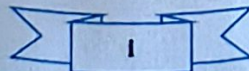
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Approved by HoD



Dr. Vikas P. Shinde
Professor

Department of Engineering
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MITS, Gwalior



PLAGIARISM CHECK CERTIFICATE

This is to certify that I/we, a student of B.Tech. in **Engineering Mathematics & Computing** have checked my complete report entitled **Foodbank project using Nodejs, PostgreSQL** for similarity/plagiarism using the "Turnitin" software available in the institute.

This is to certify that the similarity in my report is found to be 9% which is within the specified limit (20%).

The full plagiarism report along with the summary is enclosed.



Harshit Sodhani

0901MC201029

Checked & Approved By:



Dr. Jitendra Kumar
Associate Professor

Department of Engineering Mathematics & Computing
MITS, Gwalior



EXECUTIVE SUMMARY

During my internship at Dhwani Rural Information Systems (Dhwani RIS) as a Backend Software Developer Intern specializing in Node.js. I worked in an energetic environment that allowed me to apply theoretical concepts practically. My primary responsibilities included the development and enhancement of backend solutions, with a focus on building efficient APIs, managing databases, and effectively handling file uploads.

Using Node.js as my main development environment, I became adept at creating scalable and high-performance server-side applications. Collaborating with the Express.js framework, I developed RESTful APIs to ensure smooth communication between the frontend and backend components of our systems. Additionally, my work with PostgreSQL involved managing data storage, retrieval, and optimization techniques.

A crucial part of my internship involved exploring and implementing various tools and technologies. I utilized Sequelize for object-relational mapping (ORM) operations, which maintained data consistency and integrity within our applications. Multer was instrumental in ensuring the security and efficiently managing file uploads, thereby improving the user experience in data management tasks.

Moreover, my experience extended to tools like ngrok for tunneling and Docker for containerization, which broadened my knowledge of deployment strategies and scalable architecture design. These tools significantly streamlined development workflows and facilitated smooth deployment processes.

One of the most rewarding aspects of my internship was the emphasis on troubleshooting and debugging complex issues. By engaging in detailed problem-solving and collaborating with senior developers, I enhanced my debugging skills and learned effective strategies for identifying and resolving technical challenges.

Overall, my internship at Dhwani RIS offered a rich learning experience in backend development, database management, and software deployment. It not only improved my technical skills but also bolstered my collaboration and communication abilities, equipping me for a successful career in the software industry.

ACKNOWLEDGEMENT

I would like to express my profound gratitude to **Dr. Vikas Shinde**, head & Professor of Department of Engineering Mathematics & Computing, for their contributions to the completion of my report titled Software Backend Developer intern.

I would like to extend our heartfelt gratitude to all those who have contributed to the completion of this university project. Firstly, I express our deepest appreciation to our project supervisor, **Dr. Jitendra Kumar**, for their invaluable guidance, support, and expertise throughout the entire duration of this session. Their constructive feedback and insightful suggestions have significantly contributed to the refinement of our work and its overall success.

Furthermore, I wish to acknowledge the contributions of our fellow classmates and colleagues who have provided assistance, encouragement, and valuable insights that has enriched my internship.

Additionally, I extend our gratitude to the university administration for providing the necessary resources and facilities for the smooth execution of my internship.

Lastly, I would like to thank my family and friends for their unwavering support, encouragement, and understanding throughout the challenges and demands of this academic endeavor.

This project would not have been possible without the collective efforts and support of all those mentioned above. I am deeply grateful for their contributions to the success of my internship.



Harshit Sodhani

0901MC201029

CERTIFICATE OF INTERNSHIP



CERTIFICATE OF INTERNSHIP

THIS CERTIFICATE GOES TO

HARSHIT SODHANI

in appreciation of your work and time as an intern at our company.

DESIGNATION

SDE Intern - Backend

TENURE

20 Dec, 2023-26 Apr, 2024



SUNANDAN MADAN
CO-FOUNDER / DIRECTOR

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ACRONYMS

- **API:** stands for Application Programming Interface, which defines protocols enabling communication between various software components.
- **ORM:** short for Object-Relational Mapping, is a method used in object-oriented programming to facilitate data conversion between disparate type systems.
- **SQL:** or Structured Query Language, serves as a universal language for database management and manipulation tasks.
- **VS Code:** Visual Studio Code, an efficient code editor developed by Microsoft that supports various programming languages.
- **CRM:** Customer Relationship Management, a strategy and software system used by companies to manage interactions with customers and potential clients.
- **VCS:** Version Control System, a tool that helps manage changes to source code over time.
- **HTTP:** HyperText Transfer Protocol, the foundation of any data exchange on the web and a protocol used for transmitting hypertext requests and information on the internet.
- **IDE:** Integrated Development Environment, a software suite that consolidates basic tools required for software development.
- **CSV:** Comma-Separated Values, a simple file format used to store tabular data, such as a spreadsheet or database.
- **JSON:** short for JavaScript Object Notation, serves as a lightweight data-interchange format, designed to be human-readable and writable while also machine-friendly for parsing and generation.
- **REST:** standing for Representational State Transfer, represents an architectural style focused on creating networked applications through stateless client-server communication mechanisms.
- **DBMS:** Database Management System, software for creating and managing databases.

NOMENCLATURE

- **CSV**: Comma-Separated Values, a format for storing tabular data in a text file where each line represents a data record.
- **CRUD**: Create, Read, Update, Delete, the four basic operations for managing data in a database.
- **CI/CD**: Continuous Integration/Continuous Deployment, a method for automating the software development process, ensuring code changes are continuously tested and deployed.
- **DBMS**: Database Management System, software that uses a standard method to store and organize data.
- **Git**: A distributed version control system used to track changes in source code during development.
- **Bitrix24**: A business management platform offering a suite of tools for collaboration, communication, and project management
- **Ngrok**: A tool to expose local servers to the internet securely

CHAPTER 1: INTRODUCTION

I am excited to present my internship report, which details my experience as a Backend Software Developer Intern at Dhwani Rural Information Systems (Dhwani RIS). Over a period of four months, I worked on a variety of projects that offered significant insights into software development and greatly enhanced my technical skills.

The report starts with an introduction to Dhwani RIS, an innovative organization dedicated to using technology to create social impact in rural communities. This section provides context for my internship and highlights the importance of the work conducted during this time.

Dhwani RIS is unique in its focus on making a grassroots-level impact. The organization works closely with local communities, government bodies, and non-profit organizations to understand their needs and develop customized solutions to address key challenges.

Dhwani Rural Information Systems (Dhwani RIS) is an innovative social enterprise focused on leveraging technology to drive positive change in rural communities. Established with the goal of empowering grassroots organizations, Dhwani RIS collaborates with local NGOs, government agencies, and community groups to develop customized tech solutions. Their projects span various sectors including agriculture, healthcare, and education, aiming to improve efficiency and accessibility. By combining technical expertise with a deep understanding of local needs, Dhwani RIS plays a pivotal role in enhancing the socio-economic conditions of underserved rural areas.

Throughout my internship, I undertook several responsibilities, such as backend development using Node.js, managing databases with PostgreSQL, and developing APIs with Express.js. These tasks not only expanded my knowledge of these technologies but also allowed me to make meaningful contributions to the projects I participated in.

In this report, I will cover the projects I worked on, the challenges I faced, the skills I acquired, and the overall impact of my internship experience. I hope this report provides a detailed account of my journey as an intern and demonstrates the practical application of my academic knowledge in a professional environment.

CHAPTER 2: TOOLS USED

During my internship at Dhvani Rural Information Systems (Dhwani RIS), I was immersed with multiple tools like:

Visual Studio Code (VS Code): VS Code is a versatile, open-source code editor created by Microsoft. It offers built-in support for debugging, version control, and task automation. With a vast ecosystem of extensions, VS Code is highly customizable and popular among developers for coding and managing projects.

Node.js: Node.js is an open-source runtime environment that executes JavaScript code outside a web browser, utilizing the V8 JavaScript engine. It is ideal for creating scalable network applications, excelling in handling numerous simultaneous connections with high throughput, making it perfect for real-time apps like chat and gaming platforms.

Express.js: Express.js is a minimalistic and flexible framework for Node.js, designed to build web and mobile applications efficiently. It provides essential HTTP utilities and middleware to streamline the creation of APIs and web servers.

Sequelize: Sequelize is a promise-based ORM for Node.js that supports SQL dialects such as PostgreSQL, MySQL, and SQLite. It simplifies database operations by mapping JavaScript objects to database tables, facilitating easy querying and data management.

PostgreSQL: PostgreSQL is a robust, open-source relational database management system known for its scalability and advanced data type support. It adheres to SQL standards and features transactional integrity, concurrency, and extensibility, making it suitable for complex, high-traffic applications.

Multer: Multer, a middleware for Node.js, is commonly employed to manage multipart/form-data, particularly for facilitating file uploads. It efficiently manages file uploads, allowing developers to set size limits, define storage strategies, and handle multiple files concurrently.

Bitbucket: Bitbucket is a source code repository hosting service that uses Git for version control. It supports private and public repositories and integrates with Atlassian products like Jira and Confluence, making it essential for collaborative development workflows.

GitHub: GitHub is a platform centred around Git, facilitating version control and collaborative software development. It offers features like pull requests, issue tracking, code reviews, and project management tools, widely used for hosting open-source projects and facilitating collaboration.

Bitrix24: Bitrix24 is a business management platform offering tools for collaboration, communication, and project management. It includes CRM, task management, document sharing, and team collaboration features, enhancing productivity and streamlining business processes.

CHAPTER 3: INTERNSHIP EXPERIENCE

- Throughout my time at Dhwani Rural Information Systems (Dhwani RIS) during the internship, I was deeply involved in an interactive and cooperative setting. This setting allowed me to apply theoretical knowledge in practical scenarios. within actual projects, significantly refining my capabilities as a Backend Software Developer. In reflection, the key aspects of my internship experience can be outlined as follows:
- Development of **Foodbank project**:
 - Description: I was part of a team tasked with developing a foodbanking platform aimed at improving access to food to needy people in affected areas and rural areas.
 - Technologies Used: Node.js, Express.js, PostgreSQL, Sequelize, Multer, Flutter (for frontend).
 - My Contributions:
 - Developed RESTful APIs for stock allocation, data management, and letter generation.
 - Fixed the issues and bugs so that design flow works properly.
 - Made the dynamic API's for updation and deletion of stock with custom validations and parent-child validations.
 - Achievements:
 - Successfully launched the foodbank application, which received positive feedback from client.
 - Contributed to improving access to food services for underserved communities, aligning with Dhwani RIS's mission.
- Integration of **Bitbucket and Bitrix**: We have integrated the bitbucket and bitrix integration so to link Pull Request's with the Issues and to do dynamic mapping.

CHAPTER 4: SKILLS DEVELOPED

1. **Backend Development:**
 - a. **Node.js:** Developed backend logic and APIs using Node.js, leveraging its asynchronous and event-driven nature for efficient server-side operations.
 - b. **Express:** Implemented RESTful APIs and middleware using Express framework to streamline routing and request handling.
 - c. **PostgreSQL:** Managed and optimized database operations using PostgreSQL, including schema design, querying, and data manipulation.
 - d. **Sequelize:** Utilized Sequelize ORM for Node.js to simplify database interactions and ensure data consistency.
 - e. **Multer:** Integrated Multer middleware for handling file uploads, enabling efficient management of file storage and retrieval.
2. **Technical Problem-Solving:**
 - a. **Troubleshooting:** Developed skills in diagnosing and resolving technical issues, ensuring smooth functionality of applications and systems.
 - b. **Debugging:** Proficient in debugging code to identify and fix errors, enhancing code quality and reliability.
3. **Version Control and Collaboration:**
 - a. **Git (GitHub/Bitbucket):** Managed project versions, collaborated with teams, and contributed to code repositories using Git, GitHub, and Bitbucket.
4. **High-level Designing:** Skills in designing RESTful APIs, implementing authentication mechanisms, and ensuring secure data transfer between frontend and backend systems.
5. **Containerization and Deployment:**
 - a. **Docker:** Gained experience in containerization with Docker, facilitating efficient deployment and scalability of applications.
6. **Web Development:**
 - a. **JavaScript:** Applied JavaScript programming for frontend and backend development, including DOM manipulation, asynchronous programming, and server-side scripting.
7. **Data Processing:**
 - a. **CSV Parsing/Writing:** Developed scripts for parsing CSV data, transforming formats, and writing CSV files, enhancing data handling capabilities.

CHAPTER 5: ACHIEVEMENTS AND OUTCOMES

During my internship at Dhwani Rural Information Systems (Dhwani RIS), I achieved significant milestones and outcomes that contributed to the success of projects and added value to the organization. Some of the key achievements and outcomes include:

1. Project Contributions and Impact:
 - Successfully developed and implemented key features in the foodbanking application, contributing to improved food access for rural communities and receiving positive feedback from clients.
 - Played a significant role in integration of bitbucket with bitrix. It can be used to keep track of issues in bitrix with bitbucket requests.
2. Technical Skills Development:
 - Acquired advanced proficiency in backend development utilizing Node.js, Express.js, and PostgreSQL, demonstrating proficiency in designing scalable and efficient solutions.
 - Enhanced database management skills with PostgreSQL, optimizing data storage, retrieval, and performance for improved system reliability and responsiveness.
 - Developed expertise in API design principles, authentication mechanisms, and secure data transfer practices, ensuring robust and secure communication between frontend and backend systems.
3. Problem-Solving and Innovation:
 - Demonstrated strong problem-solving abilities through the identification and resolution of complex technical challenges, resulting in streamlined processes, improved system functionality, and enhanced user experiences.
 - Contributed innovative ideas and solutions to project discussions, showcasing creativity and initiative in addressing project requirements and enhancing project outcomes.
4. Recognition and Feedback:
 - Received positive feedback from supervisors, mentors, and peers for contributions to projects, technical expertise, and professionalism in work ethic.

REFERENCES

[Sequelize](#)

[Express](#)

[PostgreSQL](#)

[Multer](#)

[Bitbucket](#)

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Summary

LEARNING OUTCOMES

My internship experience at Dhwani Rural Information Systems (Dhwani RIS) as a Backend Developer in Node.js has been incredibly enriching and rewarding. Throughout this journey, I have gained valuable insights, honed my technical skills, and contributed meaningfully to real-world projects.

During my internship, I worked extensively with various tools and technologies such as Sequelize for ORM operations, Multer for efficient file uploads, and ngrok for tunneling. These experiences not only expanded my technical capabilities but also deepened my comprehension of backend development practices and architectural principles.

A significant aspect of my learning during this internship was the improvement of my debugging skills. By addressing complex issues and collaborating with diverse teams, I acquired a systematic approach to problem-solving and effective solutions derivation.

I am excited about applying the knowledge gained from this internship to upcoming projects and opportunities. I appreciate the mentorship, support, and practical experience provided by Dhwani RIS, which have contributed significantly to my growth as a software developer.

I express gratitude to everyone who has been part of this journey and eagerly anticipate utilizing these experiences to make valuable contributions in my future endeavors.

ANNEXURE-2**DAILY DIARY**

Week	Duration Start date – End date (DD/MM/YY) - (DD/MM/YY)	Progress of Internship/ Project
Week - 1	20/12/23 – 24/12/23	Setup the system and learned the frameworks
Week - 2	25/12/23 – 31/12/23	Done the POC on sequelize, Nodejs, Express
Week - 3	01/01/24 – 07/01/24	Done the POC on CKAN software
Week - 4	08/01/24 - 14/01/24	Doing the POC on CKAN software and learned about the API's provided by CKAN
Week – 5	15/01/24 – 21/01/24	Done the POC on Ory for SSO authentication
Week – 6	22/01/24 - 28/01/24	Setting up the environment for strapi and making CRUD operations in strapi
Week – 7	29/01/24 - 04/02/24	Made the API's in foodbank project
Week – 8	05/02/24 - 11/02/24	Made the API's in foodbank project and fixed the bugs
Week – 9	12/02/24 - 18/02/24	Made the API's in foodbank project and fixed the bugs
Week – 10	19/02/24 - 25/02/24	Made the API's in foodbank project and fixed the bugs
Week – 11	26/02/24 - 03/03/24	Made the API's in foodbank project and fixed the bugs
Week – 12	04/03/24 - 10/03/24	Made the API's in foodbank project and fixed the bugs
Week – 13	11/03/24 - 17/03/24	Made the API's in foodbank project and fixed the bugs
Week – 14	18/03/24 - 24/03/24	Made the API's in foodbank project and fixed the bugs
Week – 15	25/03/24 - 31/03/24	Made the API's in foodbank project and fixed the bugs
Week - 16	01/04/24 - 07/04/24	Learned about the API's provided by bitrix and testing those API's against custom port
Week – 17	08/04/24 - 14/04/24	Learned about the API's provided by bitbucket and testing those API's against custom port
Week - 18	15/04/24 - 21/04/24	Integrated the bitrix with bitbucket

ANNEXURE-3A

MPR-1

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FORTNIGHTLY PROGRESS REPORT (FPRI) FROM INDUSTRY/COMPANY MENTOR

Name of Student	Harshit Sodhani		Enrollment No	0901MC201029	
Department	Mathematics & Computing		Sem	8 (session Jan-June 24)	
Industry/Organization	Dhwani Rural Information System		Date/Duration	20-12-23—20-01-24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	<p style="text-align: center;"><i>Very good</i></p> <p>Done the POC on CKAN Postguc Sals</p>				
OVERALL GRADE (Any one)	Very good				
Name of Industry/Company Mentor	Manish Roy				
Signature of Industry/Company Mentor	<i>Manish</i>				

Receiving Date	20-05-24	Name of Faculty Mentor	Dr. Jitendra Kumar	Sign	<i>[Signature]</i>
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ANNEXURE-3B

MPR-2

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY/COMPANY MENTOR


Name of Student	Harshit Sodhani		Enrollment No.	0901MC201029	
Department	Mathematics & Computing		Sem	8 (session: Jan-June 24)	
Industry/Organization	Dhwani Rural Information System		Date/Duration	20/1/24 → 20/2/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Done the work on backend of the project fixed & tested the issues.				
OVERALL GRADE (Any one)	Very good				
Name of Industry/Company Mentor	Manish Roy				
Signature of Industry/Company Mentor	<i>Manish</i>				

Receiving Date	20-05-24	Name of Faculty Mentor	Dr. Jitendra Kumar	Sign	<i>[Signature]</i>
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MPR-3

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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FORTNIGHTLY PROGRESS REPORT (FPRI) FROM INDUSTRY/COMPANY MENTOR

Name of Student	Harshit Sodhani		Enrollment No	0901MC201029	
Department	Mathematics & Computing		Sem	8 (session Jan-June 24)	
Industry/Organization	Dhwani Rural Information System		Date/Duration	20/2/24 → 20/3/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Worked as a backend developer in the project where he had created the dynamic API's.				
<u>OVERALL GRADE (Any one)</u>	Excellent				
<u>Name of Industry/Company Mentor</u>	Manish Roy				
<u>Signature of Industry/Company Mentor</u>					

Receiving Date	20-05-24	Name of Faculty Mentor	Dr. Jitendra Kumar	Sign	
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ANNEXURE-3D

MPR-4

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Name of Student	Harshit Sodhani		Enrollment No	0901MC201029	
Department	Mathematics & Computing		Sem	8 (session: Jan-June 24)	
Industry/Organization	Dhwani Rural Information System		Date/Duration	20/3/24 → 20/4/24	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Fixed the issues/bugs in the project- Developed the API's for multiple events.				
OVERALL GRADE (Any one)	Very good				
Name of Industry/Company Mentor	Manish Roy				
Signature of Industry/Company Mentor	<i>Manish Roy</i>				

Receiving Date	20-05-24	Name of Faculty Mentor	Dr. Jitendra Kumar	Sign	<i>[Signature]</i>
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