

ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY

SCHOOL OF ELECTRICAL ENGINEERING AND COMPUTING

Department of Software Engineering

Hosting Organization - Oromia Science and Technology

Authority

Internship Period - July 2023 – August 2023

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Supervisor - Mr. Mekonen Beyene

Name

ID.

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Submission Date : October 2023

Executive Summary

The purpose of the internship was to give us practical experience in a real work environment, guided by an experienced supervisor. Over the course of one and a half month, I engaged in various tasks assigned by my supervisor, shared responsibilities, worked against deadlines, learned to collaborate with my fellow interns, honed my communication skills with senior staff and supervisors, and exchanged ideas on effective task completion. This internship provided me with valuable insights into my field of study and greatly enhanced my motivation.

This report aims to provide a concise overview of our activities and challenges during the past 45 days at the assigned company. I will discuss the resources I utilized and the effort I put into my project, which contributed to my learning and growth. Additionally, I will highlight the role of our supervisor in supporting my success and how this program has influenced my career aspirations, as well as helped me identify my strengths and areas for improvement.

So in this report the following main points are involved :

- ✓ General overview about the internship
- ✓ Brief history of the company
- ✓ Duties and tasks that were given to perform
- ✓ How my supervisor helped me succeed in our assignments
- ✓ What technical knowledge and skills I gained from the process and what resources I used
- ✓ What challenges I faced overall
- ✓ How this internship helped me and what career goals I made and how the ones that were already there changed
- ✓ Comments and personal opinions on the company and the internship

Acknowledgement

I extend my heartfelt appreciation to my advisor, Mr. Mekonen, for his invaluable guidance, patience, and unwavering support. I consider myself extremely fortunate to have had the opportunity to collaborate with such a considerate and encouraging advisor. Without his generous offer to mentor me during this internship period, I would not have been able to successfully complete my practical training at Oromia Science and Technology Authority.

I would also like to extend my appreciation to the entire staff at Oromia Science and Technology Authority, who supported and helped me overcome various challenges i encountered during my internship. Their provision of materials and resources greatly facilitated my work.

List of Acronyms

HTML	Hyper Text Markup Language
CSS	Cascading Style Sheets
OSTA	Oromia Science and Technology Authority
JSON	JavaScript Object Notation)
GUI	graphical user interface

Table of Contents

Executive Summary	i
Acknowledgement	ii
List of Acronyms.....	iii
Table of Contents	iv
CHAPTER ONE	1
1. INTRODUCTION	1
1.1 General overview	1
1.2 Background of the organization	2
1.3 Mission of the organization.....	2
1.4 Products/Services of the organization	3
CHAPTER TWO	5
2. MANAGEMENT, TRAINING AND EMPLOYEE INFORMATION	5
2.1 Major duty given to perform	5
2.2 How to become oriented with the responsibilities assigned	6
2.3 How the supervisor helped to succeed in the given assignment	6
2.4 Qualities gained that helped to succeed in daily duties.....	7
CHAPTER THREE	9
3. SPECIFIC JOB INFORMATION.....	9
3.2 Technical knowledge and skills from the course work that were beneficial for the assignment.....	15
3.3 Relevant research projects identified in activities of the organization.....	16
CHAPTER FOUR.....	17
4. REFLECTION AND CONCLUSION	17
CHAPTER FIVE	22
5. Recommendations	22
5.1 Recommendation about internship.....	24
Reference	25

CHAPTER ONE

1. INTRODUCTION

1.1 General overview

Internships provide students with the invaluable opportunity to gain practical experience in a real work environment, guided by experienced supervisors. This practical training is an essential component of the curriculum and learning process for students studying at the School of Electrical Engineering and Computing at Adama Science and Technology University (ASTU). Completing a compulsory internship is a requirement for students to obtain their academic degree in their specialized field.

The primary objective of the internship program is to cultivate qualified, motivated, and hands-on students. It aims to offer students valuable insights into the professional aspects and industry-oriented practices within their field of study. By putting into practice the skills, techniques, and knowledge acquired through lectures at the university, students can effectively prepare themselves for future endeavors and career success.

The hosting companies have certain responsibilities during the internship period, including :

- ✓ providing interns with a clear job description,
- ✓ outlining workplace expectations,
- ✓ Offering various career-building work experiences through tours, personal meetings, assigned readings, and more.

Additionally, the hosting companies are responsible for providing training on organizational rules and regulations, the rights and responsibilities of interns, and safety precautions. Regular communication with interns regarding their performance, technical challenges related to their specialization, and future assignments is also essential. At the end of the internship, the hosting company must evaluate and monitor the intern's progress and submit an evaluation report.

Interns are expected to adhere to specific work practices and office etiquette, such as

- ✓ punctuality, timely completion of assignments and projects,
- ✓ engaging in online courses and studying materials provided by supervisors,

respecting office rules and maintaining a quiet work environment,

- ✓ Using office equipment and Wi-Fi appropriately and solely for designated purposes, and effectively communicating with supervisors and other staff members as needed.

The expected outcomes of this internship program include:

- ✓ Producing qualified, motivated, and practice-oriented students who possess strong work ethics and office manners.

Furthermore, the program aims to equip students with valuable insights into the professional and industry-related aspects of their field of study, foster self-evaluation skills, and develop clear career goals that can be enhanced based on the experiences gained during the internship.

1.2 Background of the organization

The Oromia Science and Technology Authority (OSTA) is a prominent organization that focuses on advancing science and technology within the region. As a renowned authority, OSTA plays a vital role in promoting research, innovation, and technological development in the Oromia region. The organization is committed to fostering a conducive environment for scientific exploration and technological advancements by collaborating with academic institutions, research centers, and industry partners. OSTA's overarching objective is to harness the potential of science and technology to drive socio-economic growth, improve livelihoods, and address pressing challenges in various sectors. By providing support, resources, and guidance to researchers, entrepreneurs, and innovators, OSTA seeks to accelerate the transformation of scientific knowledge into practical solutions and tangible outcomes. With its comprehensive approach to fostering a culture of innovation and scientific excellence, OSTA is actively contributing to the development and prosperity of the Oromia region and Ethiopia as a whole.

1.3 Mission of the organization

The Oromia Science and Technology Authority (OSTA) is driven by a set of clear missions aimed at promoting and advancing science and technology in the region.

Firstly, OSTA is dedicated to fostering a culture of research and innovation by providing support and resources to scientists, researchers, and innovators. This includes facilitating access to funding

opportunities, laboratories, and scientific infrastructure necessary for conducting high-quality research.

Secondly, OSTA focuses on promoting technology transfer and commercialization of research findings, aiming to bridge the gap between academia and industry. By facilitating partnerships and collaborations between researchers and businesses, OSTA aims to translate scientific knowledge into practical applications that can contribute to economic growth and societal development.

Additionally, OSTA strives to enhance

- science,
- technology,
- engineering,
- and mathematics (STEM) education by implementing programs that inspire and engage students in these fields.

By nurturing a skilled workforce and promoting STEM education, OSTA aims to meet the demands of a rapidly evolving technological landscape. Overall, the missions of OSTA encompass promoting research and innovation, facilitating technology transfer, and fostering STEM education to drive sustainable development and prosperity in the Oromia region of Ethiopia.

1.4 Products/Services of the organization

The Oromia Science and Technology Authority (OSTA) offer a range of services and products that contribute to the advancement of science, technology, and innovation in the region.

- ✓ One of the key services provided by OSTA is the facilitation of research grants and funding opportunities. Through various programs and initiatives,
- ✓ OSTA supports scientists, researchers, and innovators by providing financial assistance to carry out their projects and studies. Additionally,
- ✓ OSTA offers access to state-of-the-art laboratories, research facilities, and scientific infrastructure, enabling researchers to conduct experiments, tests, and analysis.

Another important service provided by OSTA is technology transfer and commercialization support. OSTA assists researchers and innovators in translating their scientific findings and inventions into practical applications that can be commercialized and contribute to economic growth. This includes guidance on intellectual property rights, patenting, and business development.

Furthermore, OSTA is actively engaged in promoting STEM education through various initiatives. These include organizing training programs, workshops, and competitions to inspire and educate students in science, technology, engineering, and mathematics fields. By offering these services and products, OSTA plays a vital role in fostering innovation, research, and technological development in the Oromia region of Ethiopia.

CHAPTER TWO

2. MANAGEMENT, TRAINING AND EMPLOYEE INFORMATION

2.1 Major duty given to perform

My main duty during the internship was to assist in developing and maintaining software applications. This involved coding, testing and debugging. Additionally, I collaborated with the team to analyze requirements, propose solutions, and participate in code reviews. Through these responsibilities, I gained practical experience in software development methodologies and best practices.

1. Attendance

- Every intern is expected to attend the workplace.
- By the end of the month attendance is subject to calculation

2. Task

- I was required to master the basics of a programming language and later use a framework to develop a project that is then evaluated by my supervisor.

3. Online courses

- Taking the courses from YouTube were recommended to me by my supervisor and the courses were HTML,CSS and JavaScript.

My main project was to work on a web application that does Web Scraping.

- A web scraping application is a software program designed to extract data from websites. It automates the process of gathering information from web pages by utilizing web crawling techniques. The application accesses the target website, navigates through its structure, and extracts specific data based on predefined rules or patterns. This data can include text, images, links, or any other relevant information present on the web page. Web scraping applications are useful for various purposes, such as market research, data analysis, content aggregation, and monitoring competitor websites. They enable users to gather large amounts of data quickly and efficiently, saving time and effort compared to

manual data collection. The extracted data can then be processed, analyzed, and utilized in various applications and systems to derive insights and make informed decisions.

2.2 How to become oriented with the responsibilities assigned

Adapting to a new environment posed challenges that required effort and perseverance. However, with the support of my supervisor and the staff, I swiftly overcame these obstacles in a short span of time. Initially, I delved into various learning materials and tutorials related to web and software development, specifically focusing on essential subjects like React with JavaScript and Backend Dev. With Node.js.

- Set up your development environment
 - Ensure to install Node.js and npm (Node Package Manager) installed on my system.
 - Start the development server.
- Learning React concepts: Familiarize with React's core concepts, such as components, JSX syntax, state management, and props.
- Installing additional packages: Packages like axios, mongoose and JSDOM were used in the project.

2.3 How the supervisor helped to succeed in the given assignment

From the beginning, Mr. Mekonen played a pivotal role in ensuring that I understood the objectives and expectations of the assignment. He provided a thorough explanation of the assignment's scope, deliverables, and their relevance to the company's goals. This clarity enabled me to align my efforts with the desired outcomes.

Mr. Mekonen's expertise in the field and his extensive knowledge of the company's operations were invaluable resources throughout the assignment. He provided me with structured guidance, offering insights into the project's context and suggesting appropriate methodologies for research and analysis. Additionally, he directed me towards relevant resources, such as internal documents, databases, and external references, which greatly facilitated my progress.

In conclusion, Mr. Mekonen's supervision played a pivotal role in my successful completion of the assignment at OSTA. The constructive feedback and mentorship he provided helped me refine my

work, and his encouragement for collaboration enhanced the overall quality of the assignment. I am sincerely grateful for his support and guidance, which greatly enhanced my internship experience and professional growth.

2.4 Qualities gained that helped to succeed in daily duties

Adjusting to a new work environment and adapting to its unique challenges can be quite demanding. In order to navigate this transition successfully, I recognized the need to develop new skills and qualities that would contribute to a positive work environment, enhance project execution efficiency, and ultimately ensure a successful internship experience.

These qualities encompassed fundamental work ethics and office etiquette, including

- punctuality, which involved arriving on time for work and meetings, respecting office decorum by following established norms and guidelines,
- utilizing office materials responsibly and appropriately,
- adhering to the suggested operating system to maintain compatibility and efficiency,
- Utilizing the office Wi-Fi for research purposes.

Cultivating these office ethics allowed me to seamlessly integrate into the workforce and facilitated smoother communication and collaboration with my colleagues and superiors. However, my journey of skill development did not end there. I also focused on honing other crucial qualities such as effective time management.

Being punctual not only demonstrated my reliability but also provided me with :

- additional time to brainstorm project ideas,
- plan implementation strategies,
- create mental drafts,
- execute those drafts,
- conduct testing,
- And assess the outcomes against my initial objectives.

Additionally, effective communication skills proved equally vital as frequent discussions were an integral part of my daily routine. I needed to articulate my thoughts and ideas clearly and coherently among my peers, as well as communicate effectively with staff members and my supervisor when seeking assistance or guidance. Lastly, engaging in self-evaluation became an essential aspect of my daily routine. This practice allowed me to assess my performance objectively, identify areas for improvement, and seek better approaches for future tasks. By continuously developing these skills and qualities, I was able to thrive in the new work environment and make the most of my internship experience.

Furthermore, I developed conflict resolution skills to address conflicts and misunderstandings that arose during collaborative work. This entailed active listening, understanding diverse perspectives, explaining our own viewpoints clearly, compromising, and establishing common ground for continued cooperation. Additionally, I fostered a culture of helping and sharing with others, ensuring the availability of resources for collective use and assisting each other with the necessary knowledge and skills. These qualities are fundamental for every working professional, and as interns, I acquired these skills and more, enabling me to work on our project seamlessly, respect one another, and continually improve myself in our daily routines.

CHAPTER THREE

3. SPECIFIC JOB INFORMATION

3.1 Daily technical duties and responsibilities I had during the internship

During my internship at OSTA, I was assigned the task of developing a web scraping application using the React framework in a Node.js environment.

In the allotted weeks of my stay on the Internship program I was Involved in activities such as :-

- ✓ **Familiarization with the React Framework and Node.js Environment:**
 - The initial phase of the internship involved familiarizing myself with the React framework and the Node.js environment. I dedicated time to study and understand the core concepts, libraries, and tools associated with React, as well as the fundamentals of Node.js. This allowed me to gain a solid foundation for developing the web scraping application.
- ✓ **Requirement Analysis and Design:**
 - Before commencing development, I collaborated with my supervisor and other team members to analyze the project requirements thoroughly. We discussed the target websites, the specific data to be extracted, and the desired output format.
- ✓ **Implementation of Web Scraping Logic:**
 - Using React and Node.js, I implemented the web scraping logic as per the design plan. This involved utilizing appropriate libraries and frameworks, such as Axios and Cheerio, to send HTTP requests to the target websites, parse the HTML content, and extract the desired data. I also handled any authentication or session management requirements to ensure smooth data retrieval.
- ✓ **User Interface Development (GUI):**
 - In parallel with the web scraping logic, I worked on developing the user interface using React. This included designing and implementing components, managing state and props, and handling user interactions. I ensured a responsive and user-friendly interface that allowed users to input target websites, select data fields, and initiate the web scraping process.

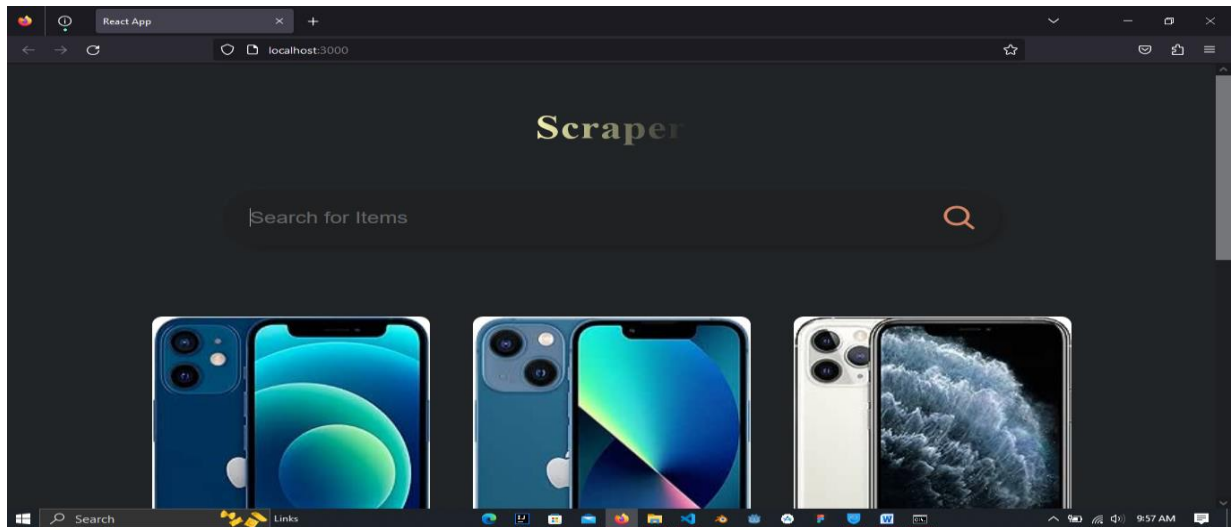


Figure 1: UI_1

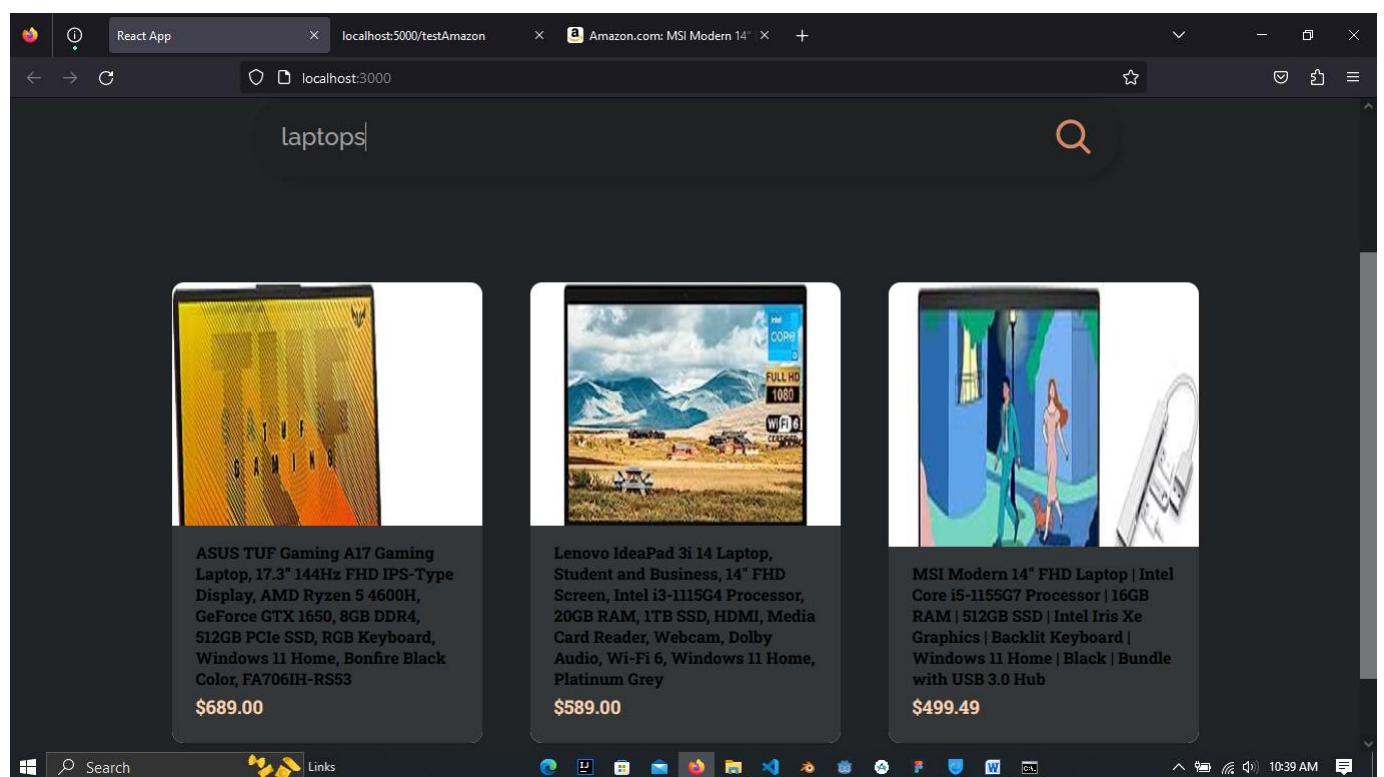


Figure 2 : UI_2

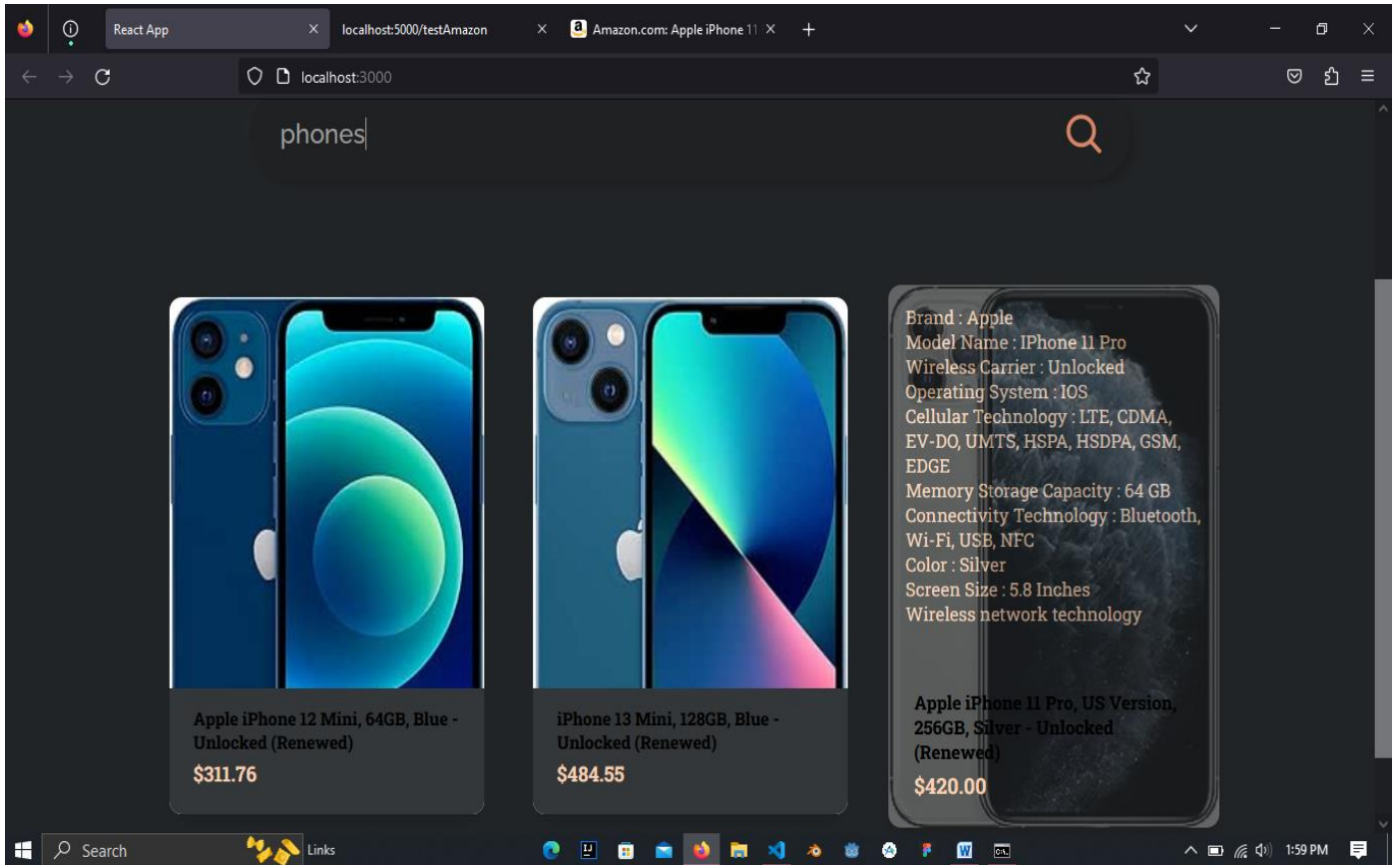


Figure 3 : UI_3

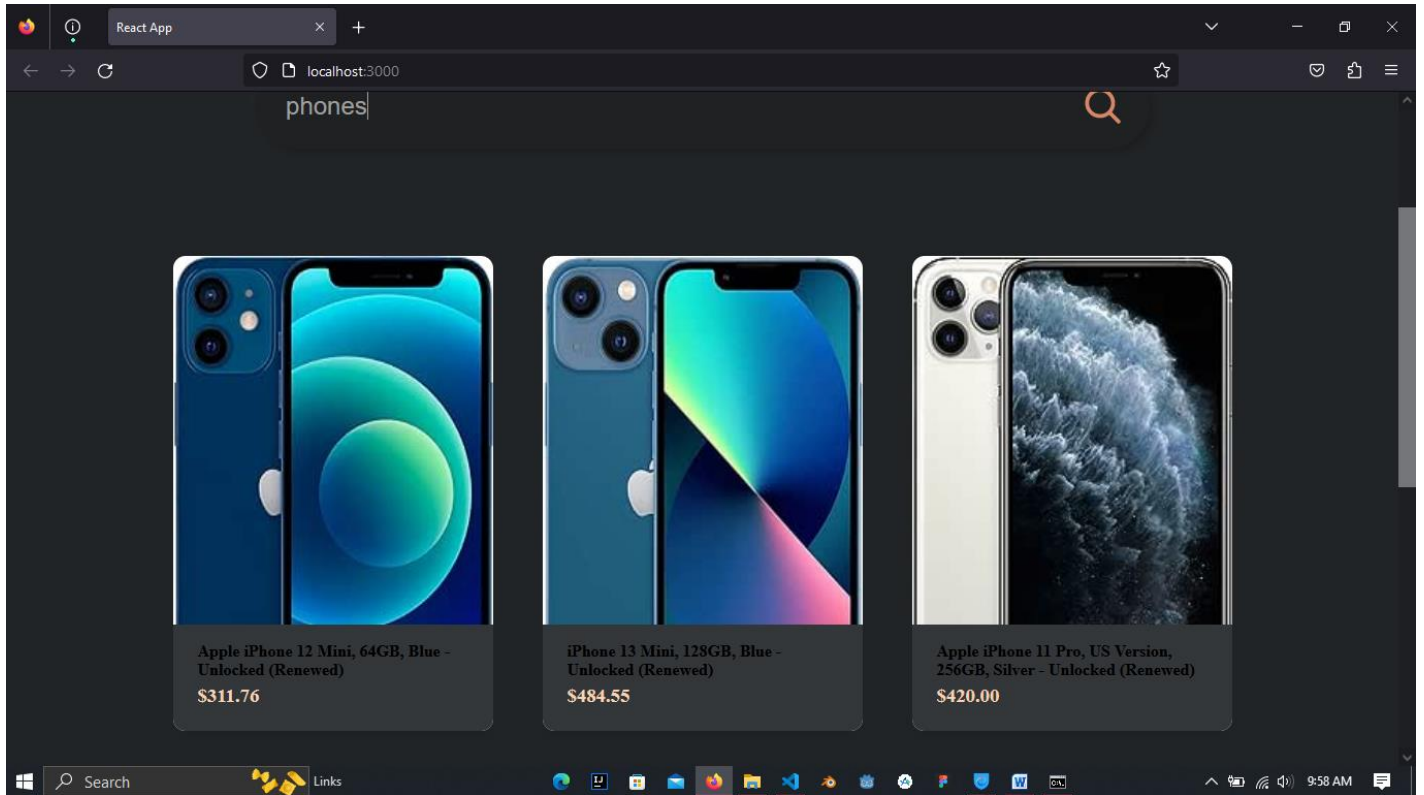


Figure 4 : UI_4

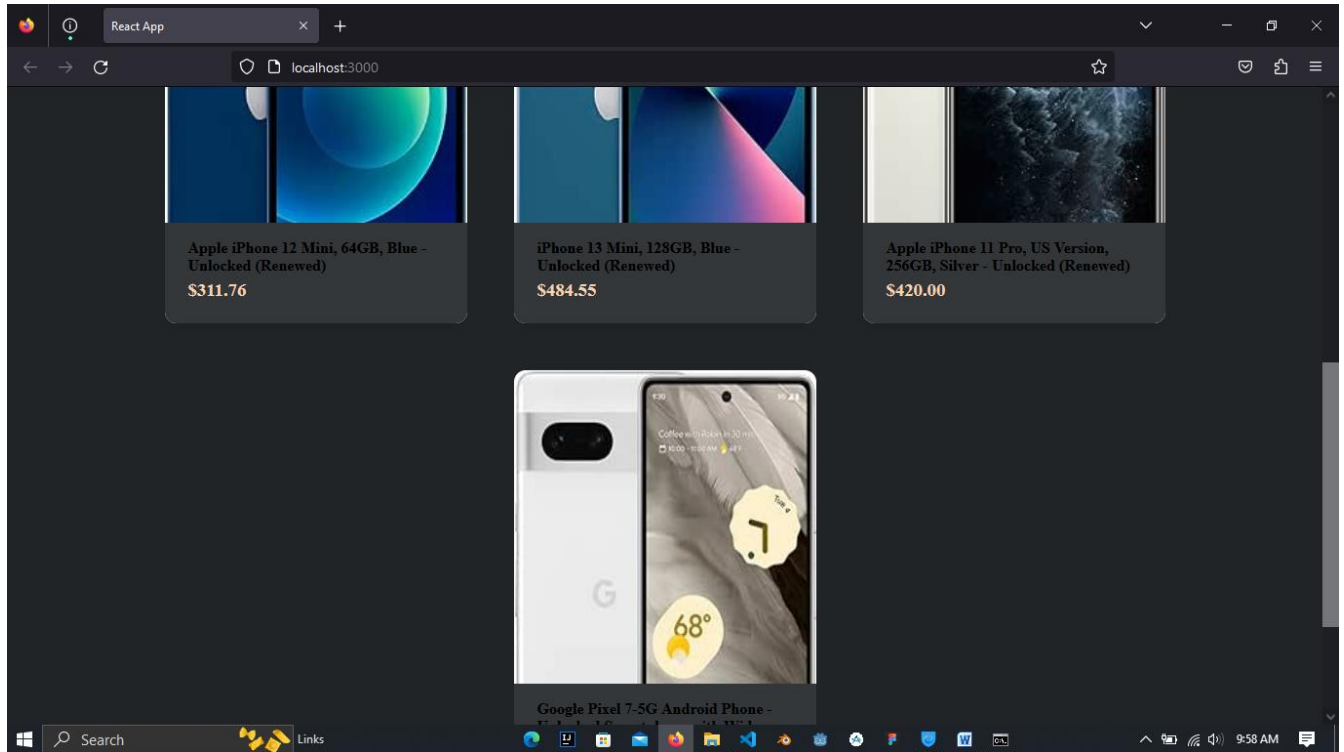


Figure 5 : UI_5

✓ **Testing and Debugging**

- Throughout the development process, I conducted comprehensive testing to identify and resolve any issues or bugs in both the web scraping logic and the user interface. I performed unit tests, integration tests, and user acceptance tests to validate the accuracy and reliability of the application. Debugging was an essential part of this phase, where I utilized tools like Chrome Developer Tools to identify and fix any errors.

✓ **Collaboration and Communication:**

- As an intern, I actively engaged in collaborative efforts with my supervisor and other team members. I participated in daily stand-up meetings, where I provided progress updates, discussed challenges, and sought guidance when needed. Effective communication ensured smooth coordination and alignment with the project objectives.

In conclusion, my daily technical duties and responsibilities during the internship involved developing a web scraping application using the React framework in a Node.js environment.

From familiarizing myself with React and Node.js I implemented:

- web scraping logic,
- user interface development,
- testing,
- debugging,
- Collaboration.

This internship provided me with valuable hands-on experience in web development, enhanced my technical skills, and deepened my understanding of React and Node.js.

3.2 Technical knowledge and skills from the course work that were beneficial for the assignment

The development of a web scraping application using the React framework in a Node.js environment provides an opportunity to acquire various technical knowledge and skills. Some of the key skills that can be acquired from this project include:

- **Proficiency in React :** By working on the project, I gained a strong understanding of React's core concepts, including component-based architecture, state management, and virtual DOM manipulation. I learned how to design and develop efficient and reusable React components.
- **Web Scraping Techniques :** The project involves extracting data from websites, which will familiarize you with web scraping techniques. I learned how to send HTTP requests to websites, parse HTML content, and extract relevant data using libraries like Cheerio. Additionally, I explored methods for handling authentication and session management during web scraping.
- **Node.js Development:** Working in a Node.js environment will enhance your skills in server-side JavaScript development. I have gained knowledge of the Node.js runtime, asynchronous programming, and utilizing NPM packages. The project provides hands-on experience in building server-side logic and integrating it with the React frontend.
- **API Integration :** During the development of the web scraping application, it might be needed to integrate with external APIs to enhance functionality or retrieve additional data. This project will familiarize you with API integration concepts, such as making API requests, handling responses, and managing authentication tokens.
- **Data Parsing and Manipulation:** Web scraping often involves parsing and manipulating data obtained from websites. Through this project, I gained expertise in techniques for parsing and extracting specific data from HTML content, cleaning and transforming the extracted data, and structuring it in a suitable format for further processing or storage.
- **Debugging and Troubleshooting:** As with any development project, we will encounter challenges, bugs, and errors along the way. This project will provide opportunities to enhance my debugging and troubleshooting skills, utilizing tools like Chrome Developer Tools and logging mechanisms to identify and resolve issues efficiently.

By acquiring these technical knowledge and skills, I have developed a solid foundation in :

- web development,
- JavaScript frameworks,
- web scraping,
- server-side programming,
- And collaborative practices.

These skills will not only benefit in the specific project but also prepare me for future endeavors in the field of software development.

3.3 Relevant research projects identified in activities of the organization

As mentioned before the main project I was tasked with was a web application.

During my internship at the organization, I identified the following relevant research projects:

- Investigating performance optimization techniques for React applications, such as code splitting and lazy loading.
- Exploring the integration of React with state management libraries
- Researching best practices for handling data fetching and asynchronous operations in React using libraries like Axios
- Analyzing the use of React in progressive web applications (PWAs) and exploring strategies for offline caching and data synchronization.
- Studying the accessibility considerations and techniques in React development to ensure inclusive user experiences.

CHAPTER FOUR

4. REFLECTION AND CONCLUSION

Throughout this internship, I had the opportunity to collaborate and engage with professionals in our field. This interaction not only allowed myself to expand my network but also provided valuable experience in communicating within a professional setting. The internship exposed to a wealth of resources and facilitated connections with various professionals, enabling to acquire references and explore new job opportunities.

As technology continues to evolve rapidly, it significantly impacts a country's economic, social, and political development. As computer science and engineering students, I play a crucial role in this technological evolution. It is my responsibility to drive our country's technological growth and leave a lasting impact for future generations in this field.

This internship served as an eye-opener, helping us understand my potential and showcasing the opportunities that await me after graduation. It provided us with a sense of purpose and will serve as the foundation for a better future. Additionally, the internship allowed me to test different job roles and explore various career options, refining our career goals in a more informed manner. Having witnessed and experienced the work environment during the internship, I will be better prepared for the professional world once I graduate.

This work experience complemented our academic training and introduced me to a specific career or field of interest. It provided practical application of our academic knowledge and involved responsibilities similar to those of an entry-level position.

- The internship offered the opportunity to:
 - Take ownership of our learning and create a more fulfilling college experience.
 - Develop knowledge, skills, and experiences relevant to our major and career goals.
 - Gain practical employment experience that employers value, such as problem-solving, effective communication, teamwork, and collaboration with diverse individuals.
 - Engage with professionals in our field to explore and clarify our major and career goals, ensuring the right fit for our aspirations.
 - Enhance our confidence and facilitate a smoother transition into permanent employment, while fostering professional work habits.
 - Develop a strong work ethic and other valuable skills related to our major and career goals.
 - Build confidence and the ability to express opinions and ideas confidently, which has been nurtured throughout the internship program.
- The internship program has provided me with invaluable skills and benefits, including:
 - Improving practical skills.
 - Applying theoretical knowledge in a practical setting.
 - Enhancing interpersonal communication skills.
 - Developing effective team-playing abilities.
 - Cultivating work ethics and professional behavior.

While most educational programs focus on theoretical aspects, this internship allowed me to bridge the gap between theory and practice. Simulating a real working environment has proven beneficial in elevating our living standards and honing practical skills. Acquiring practical skills has also enhanced the effectiveness of work and equipped us to tackle challenges.

The internship program has been an excellent opportunity to :

- gain hands-on experience in the field,
- enabling me to develop and improve behavioral skills such as responsibility,
- positive attitude,
- adaptability,

- honesty and integrity,
- motivation,
- willingness to learn and grow, strong self-confidence, and professionalism.

Moreover, my teamwork skills have significantly improved through collaboration in the workplace. I have come to recognize the importance of teamwork in achieving tasks more efficiently. Engaging in team discussions and considering multiple perspectives has enhanced my ability to think critically and broaden my knowledge on various subjects.

The benefits of teamwork include skill improvement, enhanced communication, increased self-confidence, social interaction, understanding my potential, and elevating individual and collective performance.

Overall, this internship has played a pivotal role in our personal and professional development by providing :

- practical skills,
- expanding my knowledge base,
- and instilling a strong work ethic.

It has empowered myself to become well-rounded individuals equipped to navigate the challenges of the workforce confidently.

My internship journey was not without its fair share of challenges, each of which contributed to my growth and learning experience:

1. **Learning Curve:** Internships often involve working with new technologies, tools, and processes that interns may not be familiar with. Adjusting to the learning curve and acquiring the necessary skills and knowledge can be a challenge. However, with guidance and support from mentors and colleagues, interns can overcome this challenge and gradually become more comfortable with the tasks assigned to them.
2. **Time Management:** Balancing multiple responsibilities and meeting project deadlines can be challenging, especially as interns are often involved in various tasks and projects simultaneously. Effective time management skills are crucial to ensure that all assignments

are completed on time while maintaining quality work. Developing time management strategies and seeking guidance from supervisors can help interns navigate this challenge.

3. **Communication and Collaboration:** Interns may face challenges in effectively communicating and collaborating within a professional team. This can include difficulties in clearly expressing ideas, seeking clarification, or working collaboratively with team members. Open communication channels, regular check-ins with supervisors, and actively participating in team activities can help interns improve their communication and collaboration skills.
4. **Adapting to the Work Environment:** Adjusting to a new work environment, company culture, and team dynamics can be challenging for interns. It may take time to become familiar with the company's policies, procedures, and expectations. However, being proactive in seeking guidance, observing and learning from colleagues, and actively engaging with the work environment can help interns adapt more quickly.
5. **Handling Feedback and Constructive Criticism:** Receiving feedback and constructive criticism is an essential part of the learning process during an internship. However, it can be challenging for interns to handle feedback, especially if it points out areas for improvement. Developing a growth mindset, being open to feedback, and using it as an opportunity for learning and growth can help interns navigate this challenge.

In conclusion, my internship experience has been an incredibly valuable and transformative journey. Throughout my stay in the internship program, I have had the opportunity to immerse myself in a dynamic work environment, acquire new skills, and grow both personally and professionally. The challenges I encountered along the way have served as catalysts for my personal development, pushing me to adapt, learn, and overcome obstacles.

During my time as an intern, I have witnessed firsthand the importance of effective communication, teamwork, and time management. Collaborating with colleagues and superiors has not only expanded my knowledge and understanding but also sharpened my interpersonal skills. Through engaging in meaningful discussions, seeking feedback, and actively participating in team projects, I have honed my ability to collaborate, contribute ideas, and work towards common goals.

Moreover, the internship program has provided me with a platform to apply and enhance the theoretical knowledge gained during my academic journey. The hands-on experience I gained in various areas, such as problem-solving, project execution, and decision-making, has been invaluable. I have been able to witness the direct impact of my efforts and contributions, which has boosted my confidence and reinforced my passion for the field.

Beyond technical skills, the internship experience has fostered personal growth and self-reflection. Engaging in self-evaluation and seeking continuous improvement has become second nature to me. This practice has enabled me to identify my strengths, weaknesses, and areas for further development. I have embraced a growth mindset, understanding that each challenge is an opportunity for growth and learning.

Overall, my stay in the internship program has been a transformative period filled with valuable experiences, lessons, and growth. It has equipped me with the skills, confidence, and insights necessary to embark on my professional journey. I am grateful for the guidance, support, and mentorship provided by the team, as they have played a pivotal role in shaping my internship experience. I will carry the knowledge and experiences gained during this program with me as I continue to pursue my career aspirations, always striving for excellence and embracing the spirit of continuous learning.

CHAPTER FIVE

5. Recommendations

I highly recommend Oromia Science and Technology Authority as a placement for students seeking an internship opportunity. There are several compelling reasons for this recommendation.

Firstly, Oromia Science and Technology Authority is a renowned organization dedicated to promoting

- scientific research,
- technological advancements,
- and innovation.

By interning at this authority, students will have the opportunity to work in a dynamic and forward-thinking environment that fosters creativity and intellectual growth.

Secondly, the authority offers a wide range of projects and initiatives across various scientific disciplines and technological domains. This diversity ensures that students can find an internship position aligned with their specific interests and academic backgrounds. Whether their focus is on

- computer science,
- engineering,
- biotechnology,
- or any other field related to science and technology,

Oromia Science and Technology Authority provides a platform to apply theoretical knowledge to real-world situations.

Another reason to consider interning at Oromia Science and Technology Authority is the exposure to cutting-edge technologies and state-of-the-art facilities. The authority is committed to staying at the forefront of :

- scientific and technological advancements,
- providing students with access to advanced equipment,

- research laboratories, and specialized resources.

This exposure allows interns to gain hands-on experience with the latest tools and techniques, enhancing their technical skills and preparing them for future career opportunities.

Furthermore, interning at Oromia Science and Technology Authority offers

- valuable networking opportunities.
- Students will have the chance to collaborate with professionals, researchers, and experts in their respective fields.
- Building connections and establishing relationships with these industry leaders can open doors for future collaborations, mentorship, and potential job opportunities.

Lastly, Oromia Science and Technology Authority values the growth and development of its interns. The authority provides a supportive and nurturing environment where interns can learn and grow through

- mentorship programs,
- training workshops,
- and guidance from experienced professionals.

This focus on personal and professional development ensures that students gain not only technical skills but also essential soft skills such as communication, teamwork, and problem-solving.

In conclusion, Oromia Science and Technology Authority is an ideal placement for students seeking an internship experience in the field of science and technology. With its commitment to innovation, diverse project opportunities, access to advanced technologies, networking prospects, and focus on intern development, Oromia Science and Technology Authority offers a rewarding and enriching internship experience that can greatly contribute to students' academic and professional growth.

5.1 Recommendation about internship

The internship curriculum is a very great for students to have practical real world exposure to industries and must be continued. Here are some comments to improve this internship program:

- The university and especially ministry of education should facilitate place internship for the students. Because most of the company we have applied basically rejected us without even looking the letter from the university written to them.
- There must be a communication between the organization supervisor and university advisors and student are must to prepare weekly report on what they have been working.
- The intern must take this internship program seriously and the have to give their full effort to it.
- Looking at the inflation in the country the amount of money given to student is not sufficient to work all forty five days. Therefore, it must be improved for the future.

In general, the company provide you full immersive experience on how it feel like being a worker in my field choice. I recommend for the next intern student to apply to this company.

Reference

[1] <https://www.youtube.com/>

[2] <https://www.github.com/>

[3] <https://www.Amazon.com/>