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# Module Code & Module Title

# FC6W51NI Work Related Learning

# Assessment Weightage & Type

# 100% Individual Coursework

# Year and Semester

# 2020-21 Spring

### Student Name: Pratiush Prasain

### London Met ID: 20048959

**College ID: NP01CP4S210210**

### Assignment Due Date: 10th May 2023

### Assignment Submission Date: 10th May 2023

### Academic Supervisor: Ravi Chandra Gurung

### Word Count (Where Required): 3400

*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

**Acknowledgement**

I express my gratitude to Islington College and its staff members, particularly our Academic Supervisor, Mr. Ravi Chandra Gurung, for their unwavering support and guidance throughout the duration of the WRL module. With their assistance, it has been an absolute delight to work on the WRL project.

In addition to this, I would also like to extend my appreciation to E-Planet Pvt Ltd and their Supervisor, Sanjeev Bhandari, for their generosity in providing us with a platform to learn and work through the Internship program. This opportunity has proved to be an exceptional learning experience, and I am grateful for the skills and knowledge that I have gained as an intern trainee.

As we strive towards achieving higher goals and accomplishments, I would like to express my gratitude to everyone who has been involved, directly or indirectly, with the project. Thank you all for your support and dedication, and for making this internship an unforgettable experience.

# Introduction

## Background of the Placement

For my internship program, I had been accepted by the E-Plant Pvt Ltd located in Bag Bazar. One of the top educational consultancies, E-planet Education Planet, has more than 12 years of experience in international education (College Nepal, 2023).

It offers potential young people services like:

* Providing the right guidance, financial advice, scholarship opportunities, and custom solutions to meet each applicant's needs would enable aspirants to make well-informed choices.
* We offer services that will enable customers to achieve their particular objectives.
* Give all people thorough answers regarding studying abroad and subjects related to it.



Figure 1: E-Planet logo

**WEBSITE Link:** https://www.eplanet.edu.np/

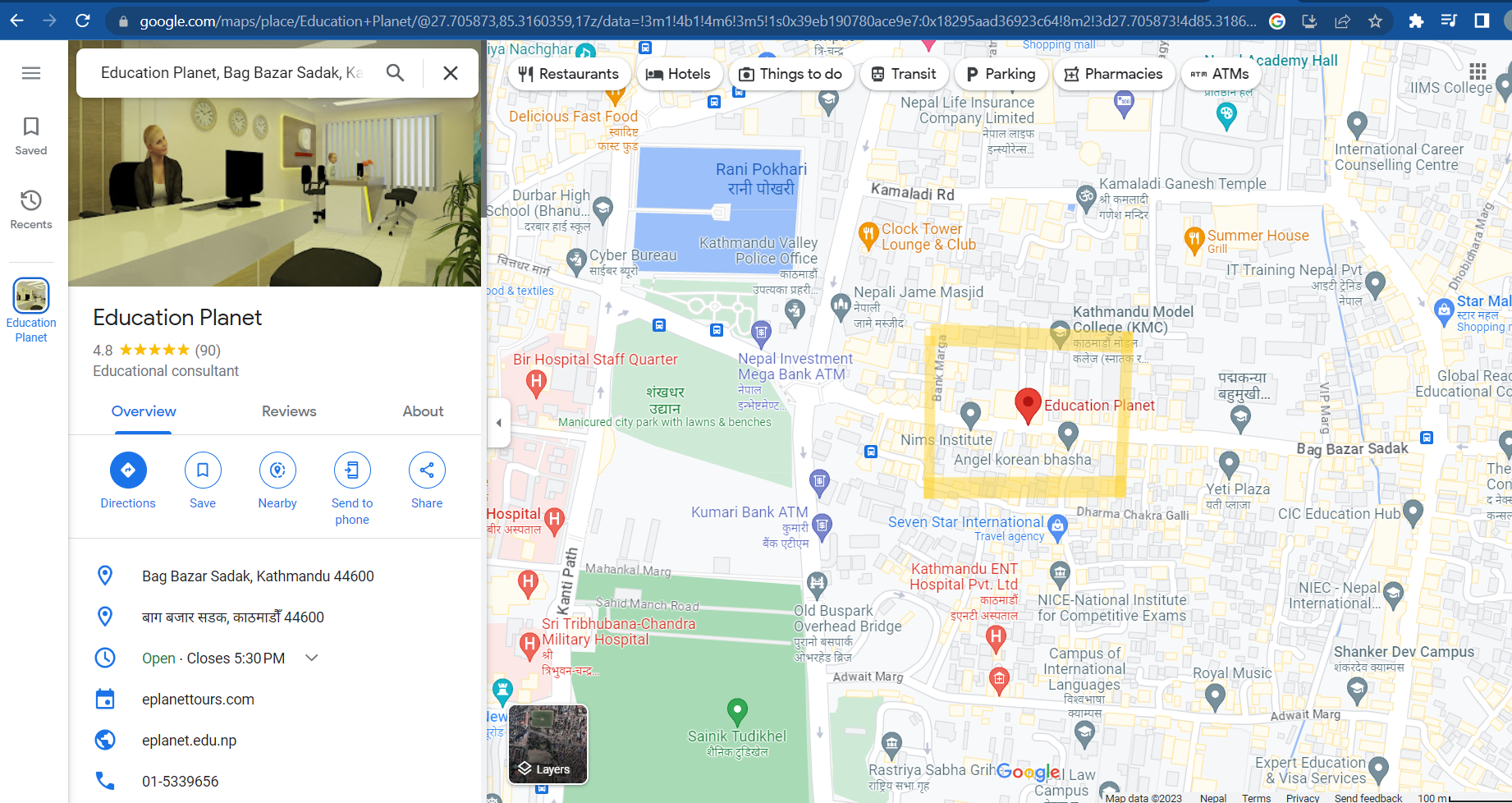
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Figure 2: Location of the E-Planet

The company is situated in the prime location of Bag Bazaar. It is situated in Bag Bazaar next to KMC College which is accessible from any location within Kathmandu Valley. As the internship program, I do have to work from the office.

# Review of Activities

## WRL Form

|  |  |  |  |
| --- | --- | --- | --- |
| **Learning Outcome ID** | **Learning outcomes** | **Activities and tasks** | **Evidence** |
| **--Soft Skills--** | | | |
| LO1 | Communication with team members and supervisor | Attend online meetings with the team members and also communicate with team members in WhatsApp to work in the project. | Screenshot of the meetings. |
| LO2 | Develop Problem Solving Skills. | Working with team members and addressing the coming problems and participate in solving the problems | Screenshot of the codes of the project |
| LO3 | Develop Critical Thinking Skills. | Analyze the problem and evaluate the solutions. | Code reviews |
| LO4 | Develop Adaptability and Flexibility | The tasks are divided according to the positions of the intern. | Screenshot of the codes |
| **--Technical Skills--** | | | |
| LO5 | Develop strong understanding of the web development concepts. | Studied the frontend frameworks, add the frontend framework in the codes. | Screenshot of the researched sites |
| LO6 | Develop Skills in database design | Research the various online resources to gain the knowledge in database creations. | Screenshot of the researched websites |
| LO7 | Develop the basic skills in React js | Learned the basics of react from react documentations and work in the projects. | Screenshot of the codes and researched react documentations. |
| LO8 | Develop Skills in backend firebase. | Research the backend firebase, learn the documentations of the firebase. | Research of the documentations and screenshot of the codes. |
| LO9 | Version Control | Push and commit in the GitHub as the project I worked for is group project | Screenshot of GitHub repository. |

Table 1: WRL Form Table

## WRL Learning Outcome Review

### LO1: Develop Communication with team members and supervisor.

The team has successfully utilized tools such as Google Meet and WhatsApp to communicate with their supervisor and team members. They have also participated in training sessions to improve their communication skills, such as active listening and providing feedback. During team meetings and discussions, they have made a conscious effort to ensure everyone is heard and understood, using clear and appropriate language and tone. Additionally, they have collaborated effectively with their team members, working together to develop the website and providing constructive criticism. Overall, the team's communication and collaboration skills in Google Meet have been positively acknowledged by their supervisor and team members.

**[Note: Evidence in Appendix Section: #LO1 Evidence]**

### LO2: Develop Problem Solving Skills.

I have successfully used a variety of soft skills while improving my problem-solving techniques. First, I have a natural talent for dissecting issues into their component parts in order to better understand them. With the use of this ability, I've been able to pinpoint the roots of issues and develop workable remedies. Second, when solving difficulties, I have shown initiative and the capacity to think creatively. Thirdly, by successfully working with team members to address difficulties, I have shown good teamwork abilities. I have effective communication skills and treat others with respect and consideration, which contributes to the development of a supportive and effective team atmosphere.

**[Note: Evidence in Appendix Section: #LO2 Evidence]**

### LO3: Develop Critical Thinking Skills.

I've successfully used a variety of soft skills while honing my critical thinking. First of all, I have the capacity to dissect complicated issues into their component parts in order to better understand them. This is because I have excellent analytical abilities and a logical mind, which enable me to pinpoint the root causes and motivating factors behind issues. Second, I have sound judgment and the capacity to weigh various options and come to wise conclusions. This is because I take into account various viewpoints and potential outcomes to make sure that my choices are in line with the aims and objectives of the project. Thirdly, I have outstanding communication skills and am able to share my thoughts and ideas with team members.

**[Note: Evidence in Appendix Section: #LO3 Evidence]**

### LO4: Develop adaptability and flexibility.

When it comes to fostering adaptability and flexibility, I have successfully demonstrated several soft talents. First and foremost, I have the capacity to adapt to shifting conditions and situations, which has enabled me to pick up new talents and face fresh challenges. I've been able to keep up with shifting priorities and requirements thanks to my ability to adapt. Second, I can remain adaptable in the face of unforeseen difficulties or failures. This is a result of my excellent problem-solving abilities and capacity for creative thought, which enable me to identify feasible answers in unexpected circumstances. Thirdly, even in the face of shifting conditions, I can collaborate with team members and stakeholders efficiently.

**[Note: Evidence in Appendix Section: #LO4 Evidence]**

### LO5: Develop a strong understanding of web development concepts.

During the first week of my internship, I studied the fundamentals of Bootstrap, which is a popular front-end framework used in web development. I learned how to include the Bootstrap CSS and JavaScript files in my HTML code to access the framework's pre-built components and functionality. I also learned about responsive design and how Bootstrap makes it easy to create websites that look great on any device, by using its grid system to arrange content into rows and columns.

In addition, I learned how to use Bootstrap's built-in classes to style elements like buttons, forms, and typography, and how to customize these styles using my own CSS. Overall, my understanding of web development concepts grew as I became familiar with Bootstrap and its capabilities.

**[Note: Evidence in Appendix Section: #LO5 Evidence]**

### LO6: Develop skills in database design, schema creation, and data migration.

W3Schools and Javatpoint are both excellent websites that provide comprehensive tutorials and examples on a wide range of web development topics, including database design. By utilizing these resources, you were able to gain a better understanding of the basic concepts of database design, which helped you in creating an efficient and effective database structure for your project. It's always a good idea to seek out multiple resources for learning, as this can help you gain a broader perspective on a topic and reinforce your understanding of the concepts. Additionally, seeking out different types of resources, such as books, online courses, or video tutorials, can provide a more well-rounded learning experience.

**[Note: Evidence in Appendix Section: #LO6 Evidence]**

### LO7: To develop basic skills in Frontend (React js).

W3Schools and Javatpoint are both excellent websites that provide comprehensive tutorials and examples on a wide range of web development topics, including database design. By utilizing these resources, you were able to gain a better understanding of the basic concepts of database design, which helped you in creating an efficient and effective database structure for your project. It's always a good idea to seek out multiple resources for learning, as this can help you gain a broader perspective on a topic and reinforce your understanding of the concepts. Additionally, seeking out different types of resources, such as books, online courses, or video tutorials, can provide a more well-rounded learning experience.

**[Note: Evidence in Appendix Section: #LO7 Evidence]**

### LO8: To develop skills in backend (Firebase, Node).

Through my efforts, I have acquired proficiency in backend Firebase. To achieve this, I have relied upon the Firebase documentation as a valuable resource to learn the ins and outs of this technology. By studying and comprehending the Firebase documentation, I have been able to develop my skillset in this domain. As a result, I am now confident in my ability to effectively navigate and utilize Firebase for backend development purposes.

**[Note: Evidence in Appendix Section: #LO8 Evidence]**

### LO9: Version Control (GitHub).

Over the course of my internship, I picked up some basic version control knowledge. Because our project required teamwork, it was essential that we used a version control system to efficiently share and discuss code with managers and other team members. We used version control solutions like GitHub to enable smooth communication and make sure that everyone was working from the same codebase. This made it possible for us to keep track of code changes and roll back to prior versions as necessary. Additionally, it made it possible for us to work concurrently on the same codebase without worrying about erasing one another's contributions.

**[Note: Evidence in Appendix Section: #LO9 Evidence]**

# Academic Context

Islington College's curriculum is designed to help students integrate into the IT sector more rapidly after graduation. The college's modules have helped me in a variety of ways to adjust to the real-world business environment. Depending on the assistance I obtained from them, the course material can be divided into various categories.

## Emerging Programming Platform and Technologies (2nd Year).

The module involves group coursework with a team of three students. As a result of my previous experience working in teams, I found it more manageable to collaborate with my team during my internship.

## Databases (2nd Year)

One of my duties during my internship project was to create a database and include it into the project. Fortunately, I already had a basic knowledge of building databases from a database course I attended in my second year of college.

# Abilities Evaluations

## LO1: Develop Communication Skills

The fundamental concept of communication involves conveying information from one location to another. This transfer of information can take various forms, such as verbal communication through spoken words, written communication using printed or digital media, visual communication through symbols and images like graphs and maps, or non-verbal communication through body language, gestures, and tone of voice. In most cases, communication involves a blend of multiple modes to convey information effectively (SkillsYouNeed, 2023).

Effective communication skills play a vital role in successfully completing any group project or task. They encompass how you convey and present your ideas and progress to both team members and supervisors alike.

## LO2: Develop Problem Solving Skills

Strong problem-solving abilities help people locate the source of a problem and come up with a workable solution. Although it is frequently thought of as a separate skill, problem-solving also requires the use of other related skills. Problem-solving abilities are important in all professions, regardless of the field or degree of employment. Therefore, possessing technical skills unique to the field or employment may also be necessary to come up with successful solutions (Indeed, 2023).

Strong problem-solving skills are a crucial requirement for successfully completing any project. It is common to face multiple challenges during the project, and individuals need to overcome them to achieve the desired outcome. Fortunately, there are various resources available, such as online forums like Stack Overflow, which can help in resolving complex problems encountered during the project.

## LO3: Develop Critical Thinking Skills

Critical thinking refers to the capacity to examine information objectively and make reasoned judgments based on evidence. It is a type of emotional intelligence that enables individuals to think logically and rationally when faced with challenging situations. Possessing strong critical thinking skills helps individuals to approach problem-solving and decision-making more effectively by allowing them to evaluate facts and evidence in a clear and unbiased manner (BetterUp, 2023).

Critical thinkers have characteristics that enable them to think in this way. While some people are born with certain traits, others must actively work on them.

## LO4: Develop Adaptability and Flexibility

The ability to adjust goals, priorities, and ideas to fit changing circumstances is a key component of both flexibility and adaptation. This necessitates an understanding of how to balance the importance and urgency of work. Flexibility is more immediate and situational and involves the need to adapt to other people's expectations, whereas adaptability is frequently associated with the capacity to anticipate and prepare for contingencies (careersmanchester, 2023).

Employers place a high emphasis on flexibility and adaptability because they encourage agility and ease changes.

## LO5: Develop understanding of web-based concepts.

The creation of web applications is frequently characterized by a brief development life-cycle, which is overseen by a small development team. Client-side programming is used to create the front end of web applications. Programming carried out on a computer application, such as a web browser, is referred to here. HTML, CSS, and JavaScript are the main languages used in client-side programming. While CSS makes sure that shown information is properly formatted, HTML code is in charge of telling a browser how to display on-screen web page content. Some of the material on a web page becomes interactive thanks to JavaScript's ability to run code.

Client-side programming is supported by server-side programming, which is also used to create the scripts used by online applications. These scripts can be written in a variety of scripting languages, including Python, Ruby, and Java. Server-side scripting makes it easier to design a unique user interface while hiding the source code that powers the interface. A database like MySQL or MongoDB can be used in web application development to store data.

## LO6: Develop basic skills in frontend (React js)

ReactJS tutorial explains both fundamental and sophisticated ReactJS ideas. One of the most widely used JavaScript front-end libraries right now, ReactJS has a solid basis and a sizable community.

For creating reusable UI components, ReactJS is a declarative, effective, and adaptable JavaScript toolkit. It is a front end component library that is open-source and only in charge of the application's view layer. Initially created and maintained by Facebook, it was eventually incorporated into services like WhatsApp and Instagram (Javatpoint, 2023).

## LO7: Develop skills in backend (Firebase, Node, Mongo)

The backend, sometimes known as the "server-side," includes all of a website's internal workings. It is in charge of data management and storage, as well as making sure that every component on the client side is operating correctly. The information sent and received by the backend and frontend is ultimately presented as a web page.

For instance, a user's browser sends a request to the server-side whenever they complete a contact form, enter a web address, or make a purchase on a website. The frontend code from the server-side response is information that the browser can understand and show to the user. The website can operate as planned thanks to this information exchange.

## LO8: Version Control (GitHub)

Tracking and controlling changes made to a codebase is part of the software development approach known as version control. Software development teams utilize version control systems as tools to track these changes over time. Teams need them to function effectively and efficiently in quick-paced development environments. Version control is a key component of DevOps teams' efforts to speed up deployments and cut down on development time.

Every change to the codebase is tracked by a version control system in a specific database. If a mistake is made, developers can go back and look at prior drafts of the code to find it and fix it without disrupting the team (atlassian, 2023).

# Challenges

Some of the challenges that are faced for 60 days WRL program can be categorized as follows:

## Team Communications

Team members may have different communication styles, which can lead to misunderstandings or difficulty in understanding each other's perspectives. Technical difficulties with communication tools, such as poor audio or video quality, can hinder effective communication. Team members may not have a clear understanding of their roles and responsibilities, which can lead to confusion and miscommunication.

## Time Management

Each member of the group may have different schedules and priorities, which can make it difficult to find a time that works for everyone. The group doesn't have a clear plan or timeline for the project, it can be difficult to stay on track and manage time effectively. There may be unexpected obstacles that arise during the project, such as technical issues or personal emergencies, which can disrupt the timeline and require time management adjustments.

## Conflicting ideas

Conflicting ideas can arise when working on a group project, leading to disagreements and disputes among team members. Members may have different opinions about the direction of the project, which can lead to confusion, frustration, and a lack of progress.

# Conclusion

Participating in the Internship program was my first time working in an office environment. Although I had studied a lot in class, but while implementing in real work it was quite tough for me. I successfully completed the 60-day program, during which I learned and experienced many new things.

## Personal Reflection

The following are my personal reflections after completing the WRL:

* I observed many differences while working in a real-world environment compared to academic settings.
* Implementing what I learned from my modules was challenging.
* The WRL helped me develop both technical and soft skills.
* It improved my communication and interaction abilities with people.
* The WRL taught me the importance of taking responsibility for tasks.

## Future-Plans

The 60-day internship program marked the beginning of my journey into the IT industry. Although it was a brief experience, it provided me with a clear understanding of what it takes to become a successful web developer. Looking ahead, my future plans include:

* Becoming proficient in the MERN stack.
* Exploring more internship opportunities and applying for jobs.
* Pursuing a career as a full stack web developer.
* Considering pursuing a master's degree.
* Improving my teamwork skills.

# References

atlassian. (2023). *What is version control?* Retrieved from atlassian: https://www.atlassian.com/git/tutorials/what-is-version-control#:~:text=Version%20control%2C%20also%20known%20as,to%20source%20code%20over%20time.

BetterUp. (2023). *Critical thinking is the one skillset you can't afford not to master*. Retrieved from Better Up: https://www.betterup.com/blog/critical-thinking-skills

careersmanchester. (2023). *Careers Service*. Retrieved from careers.manchester: https://www.careers.manchester.ac.uk/findjobs/skills/adaptability/#:~:text=Adaptability%20often%20implies%20anticipating%20and,while%20coping%20well%20with%20transition.

College Nepal. (2023). *College Nepal*. Retrieved from College Nepal: https://www.collegesnepal.com/consultancy/e-planet-education-planet/#:~:text=It%20provides%20services%20to%20the,aspirants%20can%20make%20informed%20decisions.

Indeed. (2023). *What Are Problem-Solving Skills? Definitions and Examples*. Retrieved from Indeed: https://www.indeed.com/career-advice/resumes-cover-letters/problem-solving-skills

Javatpoint. (2023). *Learn React JS Tutorial*. Retrieved from Javatpoint: https://www.javatpoint.com/reactjs-tutorial

SkillsYouNeed. (2023). *Communication Skills*. Retrieved from SkillsYouNeed: https://www.skillsyouneed.com/ips/communication-skills.html