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Addis Ababa Institute of Technology

University-Industry Linkage Coordination Office



Monthly Internship Report

(Sep-Oct 2020)

Name of student: Ellen Fitsum

Student ID No.: ATR/8779/09

Mentor's name: Eyuel Mulatu

School: ITSC

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To be filled out by the School:

Submission date: _____

Accepted by mentor: _____

(Date, full name and signature)

Comments:

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Week No: 1 Dates: _____

Week 1 Abstract

The task for this month was to get acquainted with the project by trying to read and practice other projects to better understand the intentions and motivations of the project.

The first task was to read **node js** backend and **angular js** frontend technology and practice on web development to understand the fundamentals of how to develop and why it is important. Since reading frontend and backend technology wasn't new to us, we first had to understand how we should read tutorials to better understand how to do. We also had Q&As on different points presented on the tutorials to better understand the concepts behind.

Weekday	Activities
Monday	<ul style="list-style-type: none">• Read tips on how to read and practice based on tutorials
Tuesday	<ul style="list-style-type: none">• Watch video prepared about the chosen technology to understand concepts briefly

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Wednesday	<ul style="list-style-type: none">● Get started by install the technology to our personal computer
Thursday	<ul style="list-style-type: none">● Q&A session about the chosen technology
Friday	<ul style="list-style-type: none">● Get started by writing some code in both technology

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Week No: 2 Dates: _____

Week 2 Abstract

The task this week was to read studied the documentation already written about the project to understand the different variants and solutions that have been proposed over the field of studies. This involved studying the project specifications, reading the Frontend documentation .The documentation written by the Frontend trainee to suggest possible evolutions of the database architecture as well as starting to design the Backend architecture. According to the project specifications, the backend must be based on a REST API.

Weekday	Activities
Monday	<ul style="list-style-type: none">● Read other documentation
Tuesday	<ul style="list-style-type: none">● Read other documentation

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Wednesday	<ul style="list-style-type: none">Q&A session on documentation
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Thursday	<ul style="list-style-type: none">• Read other documentation
Friday	<ul style="list-style-type: none">• Read other documentation

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Week No: 3 Dates: _____

Week 3 Abstract

The task this week was to read studied the documentation already written about the project to understand the different variants and solutions that have been proposed over the field of studies. This involved studying the project specifications, reading the Frontend documentation .The documentation written by the Frontend trainee to suggest possible evolutions of the database architecture as well as starting to design the Backend architecture. According to the project specifications, the backend must be based on a REST API.

Weekday	Activities
Monday	<ul style="list-style-type: none">• Read other documentation
Tuesday	<ul style="list-style-type: none">• Read other documentation

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Wednesday	<ul style="list-style-type: none">• Q&A session on documentation
Thursday	<ul style="list-style-type: none">• Read other documentation
Friday	<ul style="list-style-type: none">• Read other documentation

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Week No: 4 Dates: _____

Week 4 Abstract

The task for this week was to finalize reading documentation and present a comprehensive understanding of the ideas we have come across from most of the documentation we read.

We took the tasks we would involve in moving forward. We also had to set up the project environment in preparation for the upcoming tasks.

Weekday	Activities
Monday	<ul style="list-style-type: none">● Prepare environment to do some task
Tuesday	<ul style="list-style-type: none">● Prepare environment to do some task
Wednesday	<ul style="list-style-type: none">● Prepare environment to do some task

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Thursday	<ul style="list-style-type: none">Set up project environment
Friday	<ul style="list-style-type: none">Set up project environment

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Monthly Performance Evaluation Sheet to be filled by Company supervisor

Monthly Performance Evaluation	Month	Sep-Oct 2020
Company Name	Ethernet	
Company Supervisor name	Eyuel Mulatu	
Student name	Ellen Fitsum	
Student's School	AAiT ITSC	

Please give appropriate percentage value in the box provided out of the total value given for each evaluation criteria.

General Performance (25%)		
Punctuality	[5%]	5
Reliability	[5%]	5
Independence in Work	[5%]	5
Communication Skills	[5%]	5
Professionalism	[5%]	4

Personal Skills (25%)		
Speed of Work	[5%]	5
Accuracy	[5%]	5
Engagement	[5%]	5
Do you need him for your work	[5%]	4
Cooperation with colleagues	[5%]	5

Professional Skills (50%)		
N.B the interns are just third year students and they are not graduates		
Technical skills	[5%]	5
Organizational skills	[5%]	3
Support of the project tasks	[5%]	4
responsibility in the task-fulfilment	[15%]	15
Quality as a team member	[20%]	20

Result	Total percentage	95
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Supervisor Signature

Company stamp

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Addis Ababa Institute of Technology

University-Industry Linkage Coordination Office



Monthly Internship Report

(**Oct-Nov** 2020)

Name of student: Ellen Fitsum

Student ID No.: ATR/8779/09

Mentor's name: Eyuel Mulatu

School: ITSC

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To be filled out by the School:

Submission date: _____

Accepted by mentor: _____

(Date, full name and signature)

Comments:

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Week No: 1 Dates: _____

Week 1 Abstract

The task for this month was to build some projects. In our case, we decided to build our entire application with JavaScript, both for the Frontend and the Backend. The Frontend is based on the Angular.js framework, which is an overlay of Node.js, whilst the Backend is entirely coded in Express.js Node.js.

Node.js is a free software platform, based on the JavaScript language. It is a low level environment that facilitates JavaScript execution for servers. Many frameworks such as Express.js, Vu.js, Angular.js, React.js and many others are derived from node.js.

We were created a very simple Todo application using the MEAN (Mongo, Express, Angular, Node) stack.

We were created:

- Single page application to create and finish todos
- Storing todos in a MongoDB using Mongoose
- Using the Express framework
- Creating a RESTful Node API

Using Angular for the frontend and to access the API

Weekday	Activities
Monday	<ul style="list-style-type: none">• Understand works to be on the to simple todo

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Tuesday	<ul style="list-style-type: none">● Get started with express node js and angular js
Wednesday	<ul style="list-style-type: none">● Discuss works to cover
Thursday	<ul style="list-style-type: none">● Implementation for simple todo app using express js and angular js
Friday	<ul style="list-style-type: none">● Progress update with mentor

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Week No: 2 Dates: _____

Week 2 Abstract

The tasks for this week include In this case, we decided to build our entire application with JavaScript, both for the Frontend and the Backend. The Frontend is based on the Angular.js framework, which is an overlay of Node.js, whilst the Backend is entirely coded in Loopback3 Node.js. Loopback3 is js **framework**, IBM API Connect provides a graphical tool with many of the API composition features of StrongLoop Arc, a built-in API Micro Gateway, and a CLI with API management and gateway features.

We were created a very simple Todo application using the MLAN (Mongo, Loopback3, Angular, Node) stack. We were created:-

- Single page application to create and finish todos
- Storing todos in a MongoDB using Mongoose
- Using the Loopback3 framework
- Creating a RESTful Node API

Using Angular for the frontend and to access the API

Weekday	Activities
Monday	<ul style="list-style-type: none">• Understand works to be on the to simple todo

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Tuesday	<ul style="list-style-type: none">● Get started with Loopback3 node js and angular js
Wednesday	<ul style="list-style-type: none">● Discuss works to cover
Thursday	<ul style="list-style-type: none">● Implementation for simple todo app using loopback and angular js
Friday	<ul style="list-style-type: none">● Progress update with mentor

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Week No: 3 Dates: _____

Week 3 Abstract

This was the third phase of the internship project. In this phase we took problem statement. i.e software that identify university staff that are working in more than one university.

This project has some specific objectives, which are given in the following:

Weekday	Activities
Monday	<ul style="list-style-type: none">• To know about the problems faced in this project
Tuesday	<ul style="list-style-type: none">• To know how these problem is solved

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Wednesday	<ul style="list-style-type: none">• To know coding style and convention
Thursday	<ul style="list-style-type: none">• To go through the development cycle and models
Friday	<ul style="list-style-type: none">• Report progress to mentor

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Week No: 4 Dates: _____

Week 4 Abstract

This was the third phase of the internship project. In this phase we took problem statement. i.e software that identify university staff that are working in more than one university.

This project has some specific objectives, which are given in the following:

Weekday	Activities
Monday	<ul style="list-style-type: none">Working with documentation and customization
Tuesday	<ul style="list-style-type: none">Working with documentation and customization
Wednesday	<ul style="list-style-type: none">Understanding of software maintenance

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Thursday	<ul style="list-style-type: none">Understanding of software maintenance
Friday	<ul style="list-style-type: none">Report progress to mentor

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Monthly Performance Evaluation Sheet to be filled by Company supervisor

Monthly Performance Evaluation	Month	Oct-Nov 2020
Company Name	Ethernet	
Company Supervisor name	Eyuel Mulatu	
Student name	Ellen Fitsum	
Student's School	AAiT ITSC	

Please give appropriate percentage value in the box provided out of the total value given for each evaluation criteria.

General Performance (25%)		
Punctuality	[5%]	5
Reliability	[5%]	5
Independence in Work	[5%]	5
Communication Skills	[5%]	5
Professionalism	[5%]	4

Personal Skills (25%)		
Speed of Work	[5%]	5
Accuracy	[5%]	5
Engagement	[5%]	5
Do you need him for your work	[5%]	4
Cooperation with colleagues	[5%]	5

Professional Skills (50%)		
N.B the interns are just third year students and they are not graduates		
Technical skills	[5%]	5
Organizational skills	[5%]	5
Support of the project tasks	[5%]	4
responsibility in the task-fulfilment	[15%]	15
Quality as a team member	[20%]	20

Result	Total percentage	97
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Supervisor Signature

Company stamp

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Monthly Internship Report

(**Nov-Dec** 2020)

Name of student: Ellen Fitsum

Student ID No.: ATR/8779/09

Mentor's name: Eyuel Mulatu

School: ITSC

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To be filled out by the School:

Submission date: _____

Accepted by mentor: _____

(Date, full name and signature)

Comments:

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Week No: 1 Dates: _____

Week 1 Abstract

The plan for this month is write document for the above problem of statement. We did first step for writing a program that means:- Understand the problem we are trying to solve. This report is made only for academic purpose and fulfills the requirement for industrial attachment. This report has covered the direct and indirect aspects of software industry and their challenges. In addition, the report is focused on website application development. A software development process, also known as a software development life-cycle, is a structure imposed on the development of a software product. Similar terms include software life cycle and software process.

Weekday	Activities
Monday	<ul style="list-style-type: none">Understand the problem we are trying to solve

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Tuesday	<ul style="list-style-type: none">• Understand the problem we are trying to solve
Wednesday	<ul style="list-style-type: none">• We did Software Development process
Thursday	<ul style="list-style-type: none">• We did Software Development process
Friday	<ul style="list-style-type: none">• Report progress to mentor

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Week No: 2 Dates: _____

Week 2 Abstract

In this day we did software development activities. Planning: - is an objective of each and every activity, where we want to discover things that belong to the project. An important task in creating a software program is extracting the requirements or requirements analysis. Customers typically have an abstract idea of what they want as an end result, but do not know what software should do. Skilled and experienced software engineers recognize incomplete, ambiguous, or even contradictory requirements at this point. Frequently demonstrating live code may help reduce the risk that the requirements are incorrect. Once the general requirements are gathered from the client, an analysis of the scope of the development should be determined and clearly stated. Planning and designing a solution are first and second step of writing program.

Weekday	Activities
Monday	<ul style="list-style-type: none">Planning for project
Tuesday	<ul style="list-style-type: none">Planning for project

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Wednesday	<ul style="list-style-type: none">Design a solution for the project
Thursday	<ul style="list-style-type: none">Design a solution for the project
Friday	<ul style="list-style-type: none">Report progress to mentor

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Week No: 3 Dates: _____

Week 3 Abstract

In this week we did Draft our system. Skill is developed by practicing a task until it is understood as completely as possible. We did third step of for writing a program that means:-Draw a flow chart and also we did Write pseudo-code:- this is the fourth step of writing a program.

Weekday	Activities
Monday	<ul style="list-style-type: none">• Draw a flow chart for the project

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Tuesday	<ul style="list-style-type: none">• Draw a flow chart for the project
Wednesday	<ul style="list-style-type: none">• Write pseudo-code for the project
Thursday	<ul style="list-style-type: none">• Write pseudo-code for the project
Friday	<ul style="list-style-type: none">• Report progress to mentor

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Week No: 4 Dates: _____

Week 4 Abstract

In this week we began second step of software development activities and five step of writing a program. These are implementation and Write code. **Implementation:-** is the part of the process where software engineers actually program the code for the project. We were created a LectureFollowUp website application using the MEAN (MongoDB, Express, Angular, Node) stack. We were created:

- multiple page application to register, edit, delete and compare registered staff
- Storing in a MongoDB using Mongoose
- Using the Express framework
- Creating a RESTful Node API

Using Angular 10 for the frontend and to access the API

Weekday	Activities
Monday	<ul style="list-style-type: none">• Implementation for our 3rd phase project
Tuesday	<ul style="list-style-type: none">• Implementation for our 3rd phase project

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Wednesday	<ul style="list-style-type: none">● Implementation for our 3rd phase project
Thursday	<ul style="list-style-type: none">● Implementation for our 3rd phase project
Friday	<ul style="list-style-type: none">● Report progress to mentor

For the other weeks we did:- The six step of writing a program that means

- **Test and debug:** - Software testing is an integral and important phase of the software development process. This part of the process ensures that defects are recognized as soon as possible.
- **Documenting:** Documenting the internal design of software for the purpose of future maintenance and enhancement is done throughout development. This may also include the writing of an API, be it external or internal.
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-
- **Deployment and maintenance:** Deployment starts directly after the code is appropriately tested, approved for release, and sold or otherwise distributed into a production environment. This may involve installation, customization (such as by setting parameters to the customer's values), testing, and possibly an extended period of evaluation. Software training and support is important, as software is only effective if it is used correctly. Maintaining and enhancing software to cope with newly discovered faults or requirements can take substantial time and effort, as missed requirements may force redesign of the software.

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Monthly Performance Evaluation Sheet to be filled by Company supervisor

Monthly Performance Evaluation	Month	Nov-Dec 2020
Company Name	Ethernet	
Company Supervisor name	Eyuel Mulatu	
Student name	Ellen Fitsum	
Student's School	AAiT ITSC	

Please give appropriate percentage value in the box provided out of the total value given for each evaluation criteria.

General Performance (25%)		
Punctuality	[5%]	5
Reliability	[5%]	5
Independence in Work	[5%]	5
Communication Skills	[5%]	5
Professionalism	[5%]	4

Personal Skills (25%)		
Speed of Work	[5%]	5
Accuracy	[5%]	5
Engagement	[5%]	5
Do you need him for your work	[5%]	4
Cooperation with colleagues	[5%]	5

Professional Skills (50%)		
N.B the interns are just third year students and they are not graduates		
Technical skills	[5%]	5
Organizational skills	[5%]	4
Support of the project tasks	[5%]	5
responsibility in the task-fulfilment	[15%]	15
Quality as a team member	[20%]	20

Result	Total percentage	97
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Supervisor Signature

Company stamp