



Daffodil
International
University

**FINAL YEAR PROJECT AND INTERNSHIP REPORT TEMPLATE
[INTERNSHIP AT Utility Professionals]**

Submitted By

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor
of Science in Software Engineering

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APPROVAL

This thesis titled on “Frontend Developer Internship”, submitted by **S. M. Sayem Nafis (ID: 191-35-2703)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

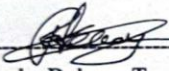
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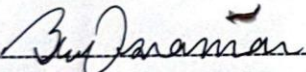
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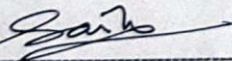
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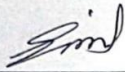
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Senior Software Engineer

Technology Team
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Declaration

I hereby declare that I have done this Internship under the supervision of **Khalid Been Badruzzaman Biplob, Senior Lecturer**, Department of Software Engineering, Daffodil International University. I also declare that this Internship is my original work for the degree of B.Sc. in Software Engineering and that neither the whole work nor any part has been submitted for another degree in this or any other university.



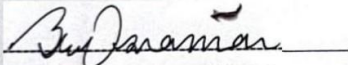
S. M. Sayem Nafis

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Department of Software Engineering

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Certified By –



Khalid Been Badruzzaman Biplob

Senior Lecturer

Department of Software Engineering

Daffodil International University

ACKNOWLEDGEMENT

To start with me expressing my heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the year internship successfully.

I'm truly grateful and wish my profound my indebtedness to **Khalid Been Badruzzaman Biplob**, Lecturer (**senior Scale**), Department of Software Engineering, Daffodil International University. Deep expertise & eager hobby of our supervisor within the subject of “Internship” to perform this thesis. His countless persistence, scholarly steering, persistent encouragement, steady and active supervision, positive criticism, treasured advice, studying many inferior drafts and correcting them in any respect stage have made it feasible to complete this internship.

I would really like to explicit my heartiest gratitude to **Dr. Imran Mahmud**, Associate Professor & Head department of Software Engineering, Daffodil International University for his type help to complete my internship and additionally to other school member and the staff department of Software Engineering Daffodil International University.

I would really like to thank my complete course mate in Daffodil international University, who took element on this speak at the same time as completing the path work.

OFFER LETTER



House: 38(GF & 1F), Block: B, Road: 7, Banasree, Rampura, Dhaka 1219, Web: www.up-bd.com
Cell: +8801819 222674, E-mail: utility.bd@gmail.com

Internship Offer Letter

Date: 22-07-2022

We would like to congratulate **S. M. Sayem Nafis**, a student of Bachelor in Software Engineering (BSc in SWE) at Daffodil International University for being selected for the position of an academic internship Program at **Utility Professionals**. As we discussed during the interview process, this is a 4 months long academic internship. During the internship period Utility Professional will provide you meal and transportation allowance while attending the offices. After a successful internship, you will be awarded a certificate. This internship is viewed by a Supervisor as being an educational opportunity for you rather than a part-time job. In addition to you will get opportunity for learning internships under a senior Software Engineer. Web Development work for various clients will be assigned.

As such, your internship will include hands-on training. Primary we focus on learning, developing new skills, and gaining a deeper understanding of the knowledge you have learned in the classroom. Your effective starting date will be 01 August, 2022.

Again, congratulations and we look forward to working with you.

Thanks.

Sincerely

A handwritten signature in blue ink, appearing to read 'Engr. Md. Hasmotuzzaman', is written over a faint, circular official stamp.

Engr. Md. Hasmotuzzaman
Managing Director
Utility Professionals

Date: 27 November, 2022

TO WHOM IT MAY CONCERN

We do hereby certify that S. M. Sayem Nafis, a student of Daffodil International University (ID: 191-35-2703), has completed his internship as a Web Developer at our organization from August 1, 2022 to November 27, 2022.

During this internship period, he has rendered his responsibilities. After joining as an intern, he adhered to all the rules and regulations of our company.

If you have questions about him, please feel free to contact me.

Sincerely



Engr. Md. Hasmotuzzaman
Managing Director

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CHAPTER 1 - INTRODUCTION

1.1 BACKGROUND

At Utility professionals, we develop innovative and creative products and services that provide complete communication and information solutions. Among the plethora of services, web design and development, customized applications, ERP, CRM, e-commerce solutions, business-to-business applications, business-to-client applications, managed hosting and internet portal management, these are just a few we offer. Satisfied clients all over the world testify to the quality of our work. As a leader in technology research, Utility Professional is committed to exporting quality software worldwide.

1.2 OBJECTIVES

I encourage myself to do it because it's interesting. I learned many new things and applied them to this internship. The biggest motivation to work with so many components This is my first time working with an organization.

1.3 SCOPE OF STUDY

The main purpose of this internship report is to meet the criteria for an undergraduate BSc program while presenting the knowledge and information acquired during an internship in a company. During this internship here, you will know your responsibilities as an employee, how to handle work professionally on time, and how to deliver output on time. Also how to deal with work pressure, do your best in this situation and approach your job professionally. It also teaches you how to become It also made me want to learn more about development. Because each time brings new challenges. The problems are not the same, so we have to think differently to solve each problem. When I find this job rewarding, my passion for web development is awakened.

2.1 ABOUT

2.2.1 Mission & vision

1. To keep the leading software program solution company ensuring advantage of clients, shareholders and personnel
2. growing, disseminating and exploiting the terrific level in, know-how and expertise of all of our human beings
3. growing a different competence in process improvement and undertaking control

Vision-

Powered by innovation, guided by integrity, deliver quality solutions to build The Digital Delta

2.2.2 Location

House:38(Gr. & 1at floor), Block: B, Road: 7

Banasree, Rampura, Dhaka-1219, Bangladesh

2.2.3 Management

Exclusive personnel paintings in distinctive classes in software specialist's employer. MD, HR, and corporation CEO paintings in their head workplace. And however, I am an intern here operating as a developer at New branch. where group leader given the ability to work remotely and, inside the office. I mean hybrid workplace.

3.1 DEPARTMENT / SECTION OVERVIEW

I did my internship in improvement department. My supervisor is the team chief and senior full stake developer of the branch. additionally, there are exclusive posts of officials in extraordinary departments. right here all of use's work is decided. all the work of the sub branch has to be submitted within the shape of record to the head workplace on the cease of each month.

3.2 WORKING TEAM

I have two Developers in my group. Me and my group chief. I entire the challenge under the guidance of the crew leader. In case of any problems, the crew leader affords documents or video resources. If the hassle does not solve itself, the group leader determines the answer

3.3 WORKING ENVIRONMENTS & PROTOCOLS

3.3.1 Rules & Regulation

Utility professionals is a software Development company and these are the terms and conditions:

- Inside the case of the intern, the employee needs to have his own computer.
- Ta. Da. will be given beside your profits.
- They've constant operating hours. They need to enter and exit through card scanner.
- Making genuine & correct entries in time file.
- The employees are fairly integrated with the simple activities of the corporation.
- There's specific training for the employees of each department & they had to attend it.
- Personnel of my workplace cannot take early leave besides for a terrific cause. They need to take permission from manager or manager to go away early or for a go away.

3.3.2 Facilities

Company have various kind of facilities for their employees like –

- While intern there was facility to work in office and home.
- Provides evening snacks and sometimes extra facilities of food. For the intern food facilities are free.
- Have two holidays in a month.
- Female workers can have holiday during their pregnancy time.
- Any employee can take leave showing logical reason.
- They have internship opportunities for students.
- Company provides personal computer for every employee.

3.4 INTERNEE LIFE CYCLE

Getting Started

I began my internship on August 1, 2022. My department's HR assigned me to the IT branch and setup verbal exchange with my team leader. informed me to the organization facts to me and taught me approximately employer rules, employer regulations and my paintings for the employer. steadily and many greater.

4.1 Technologies I Use

As a web developer, I have to work with many technologies. Many technologies include JavaScript, HTML-CSS, bootstrap, ReactJS, Redux at the front end and NodeJS/Express, Laravel, MySQL for backend. Some experience working on servers and c-panel.

5.1 Training/ Domain Knowledge Sharing

I started my internship journey four months back as an IT Intern of MERN Stack at Utility Professionals Company. I never thought it would be a wonderful four months journey. My Internship Program started on 1 August 2022 to 26th November 2022 at Utility Professionals Company. I worked as a web developer at Utility Professionals Company under the supervision of its senior developer. I was given the responsibility of website design and development which I completed well. I was assigned a variety of tasks. Below, I will explain my responsibilities during these four months.

Project Name: Maway Admin Panel (<https://maway-admin.vercel.app/login>)

After joining the company, my first task/project was to develop some important features of their website. The name of this project was Maway Admin panel. This is a Denmark base Driving license Website

5.2.1 Project plot & requirements

- 1.Admin Can add license for instructor school.
- 2.When the school instructor signs up and pays, the request will come to the Admin.
- 3.Activating the admin license will enable the school approved.
- 4.Admin can view all information of school instructor.
- 5.School instructor students can send any message to admin and admin can reply.

5.2.2 Responsibilities

1. Dashboard design & API implement.
2. School Design & API Implement.
3. Instructor Design & Implement.
4. Student Design & Implement.
5. School, Students, instructor profile Design & Implement Using React js.
6. Add license & Edit License.
7. School, instructor & Students Add & Edit profile.
8. Invoice Page Design & API Implement.

5.2.3 Solution Providing

It's ordinary to run into issues whilst writing code. Most of the mistakes became very hard to debug. This time I got the help of the team chief. The crew leader would manually check documents or video sources, if the hassle became now not solved alone, I might clear up the trouble under the steering of the crew leader.

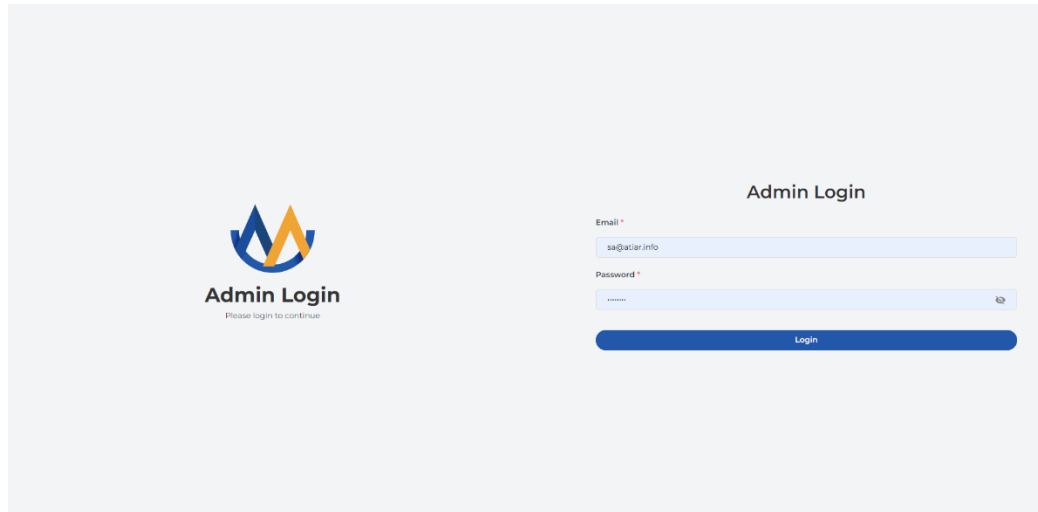
5.2.4 Challenges

When I work on this website, many challenges must be confronted at the same time as being an intern. While operating on this sort of huge mission, I had to spend plenty of time to understand the employer code structure. Many new technologies have to be understood. Confronted some troubles at the same time as working which took hours to resolve.

5.2.5 Technical Findings

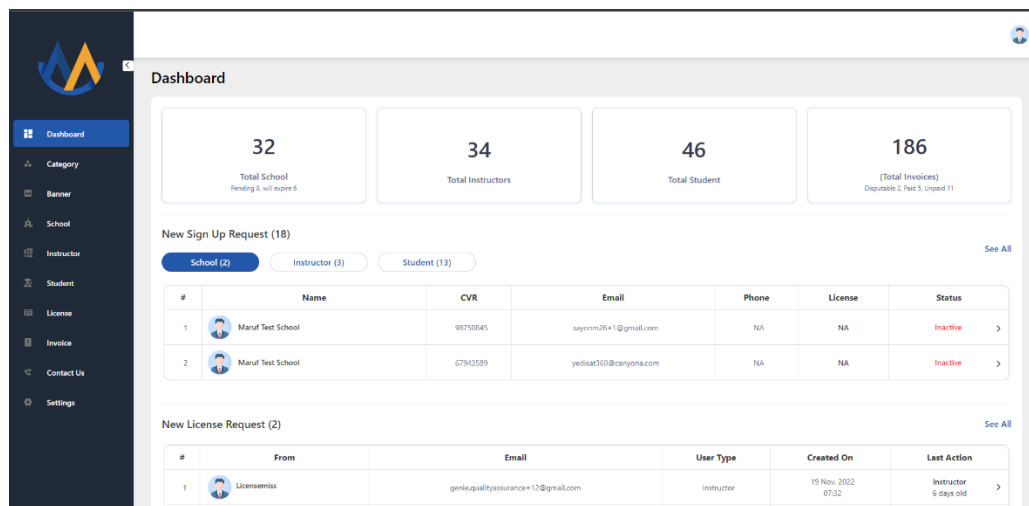
I had to find plenty of capabilities and software for the need of my work. due to the fact that our tasks are code associated, i am getting code mistakes time and again. Then I had to take help from google to resolve it and my senior developer helped me. My manager also helped me to learn all these things patiently. He also advised me to complete a route on net development.

Admin Login



The Admin Login page features a logo on the left with the text "Admin Login" and "Please login to continue". On the right, there is a form with the title "Admin Login". The form includes an "Email" field with the value "sa@atlar.info", a "Password" field with a masked password "*****", and a "Login" button.

Dashboard



The dashboard provides a comprehensive overview of system metrics and recent requests. It includes a sidebar with navigation options and a main content area with summary cards, request lists, and a table of new license requests.

Dashboard Summary

Metric	Value
Total School	32
Total Instructors	34
Total Student	46
Total Invoices	186

New Sign Up Request (18)

Filters: School (2), Instructor (3), Student (13) [See All](#)

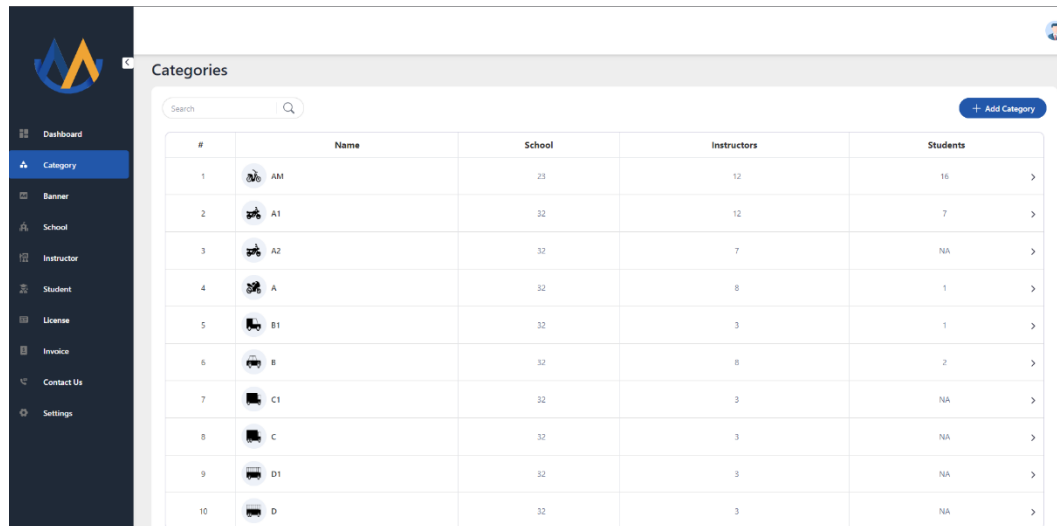
#	Name	CVR	Email	Phone	License	Status
1	Manuf Test School	98750845	saycom26+1@gmail.com	NA	NA	Inactive
2	Manuf Test School	67943589	yedist300@canyona.com	NA	NA	Inactive

New License Request (2)

[See All](#)

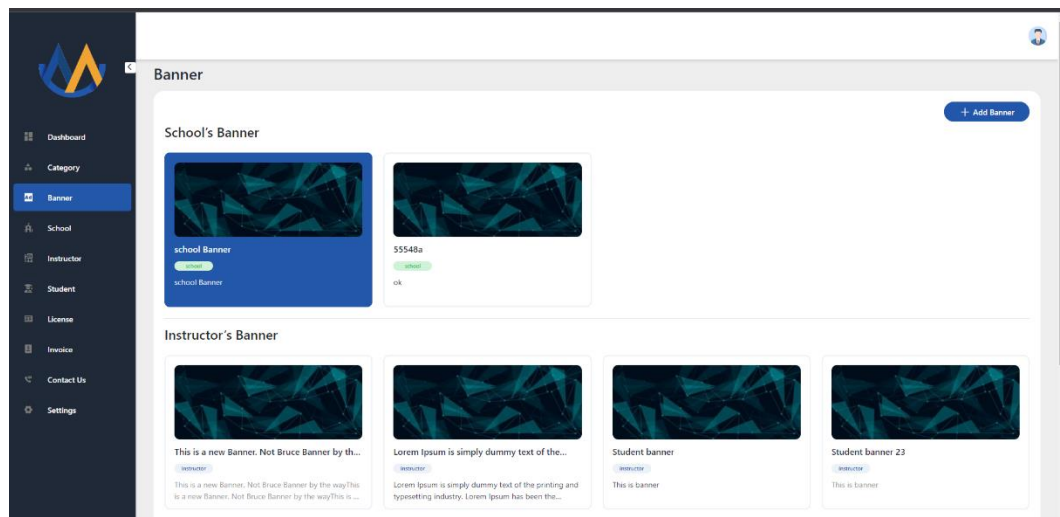
#	From	Email	User Type	Created On	Last Action
1	Licensesmis	genie.qualityassurance+12@gmail.com	Instructor	19 Nov. 2022 07:32	Instructor 6 days old

Category



#	Name	School	Instructors	Students
1	AM	23	12	16
2	A1	32	12	7
3	A2	32	7	NA
4	A	32	8	1
5	B1	32	3	1
6	B	32	8	2
7	C1	32	3	NA
8	C	32	3	NA
9	D1	32	3	NA
10	D	32	3	NA

Add Banner



School's Banner

- school Banner
- 55548a

Instructor's Banner

- This is a new Banner. Not Bruce Banner by th...
- Lorem Ipsum is simply dummy text of the...
- Student banner
- Student banner 23

School Management

The screenshot shows the 'School Management' page. It features a search bar, a 'Show 10 Entries' dropdown, and a 'Filter' button. The table below lists various schools and their associated details.

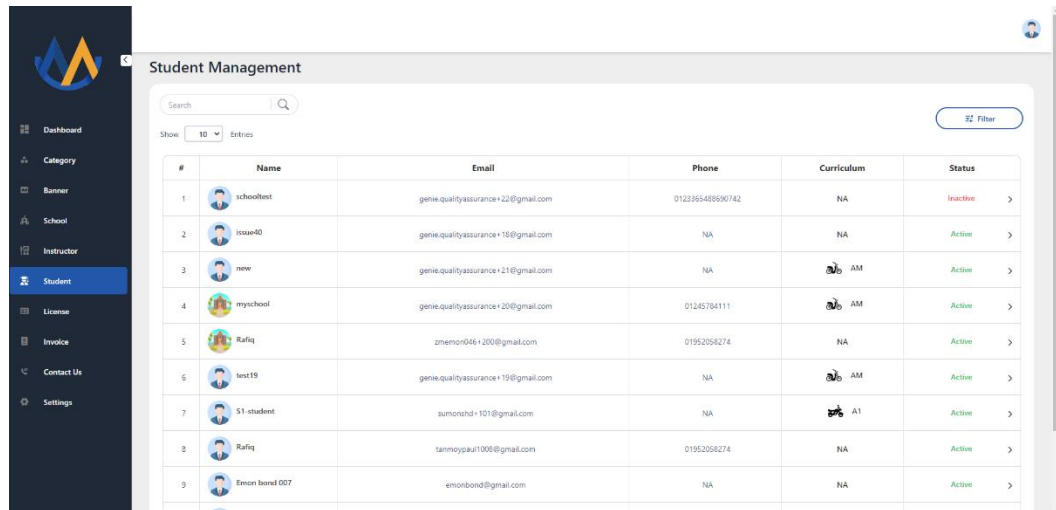
#	Name	CVR	Email	Phone	License	Status
1	Testing 1	87654328	genie.qualityassurance+1@gmail.com	12345678905432	Premium (2 Years 5 Days Remaining)	Active
2	Testing	87654321	genie.qualityassurance+1@gmail.com	NA	NA	Active
3	Zmemon046 School	54654564	zmemon046+63@gmail.com	NA	Basic (13 Days Remaining)	Active
4	Zmemon School 2	24556465	zmemon046+62@gmail.com	NA	Premium (1 Year 12 Months 0 Days Remaining)	Active
5	Zmemon School	25083258	zmemon046+61@gmail.com	NA	Basic (1 Year 5 Months 25 Days Remaining)	Active
6	Emon School and College	54564647	zmemon046+60@gmail.com	NA	Listing	Active
7	Mirpur School2	12238251	tanimoyeul1004@gmail.com	0432123451	NA	Active
8	Genie School & College	12345675	tanimoyeul1005@gmail.com	1111111111	Listing (11 Months 26 Days Remaining)	Active
9	Genie	12135479	nafsa.ice+11@gmail.com	NA	Premium (2 Years 5 Days Remaining)	Active

Instructor

The screenshot shows the 'Instructor Management' page. It features a search bar, a 'Show 10 Entries' dropdown, and a 'Filter' button. The table below lists various instructors and their associated details.

#	Name	Email	Phone	License	Status
1	Rana 1	aminulalamana321@gmail.com	NA	Basic (2 Years 1 Month 2 Days Remaining)	Active
2	Abc	genie.qualityassurance+26@gmail.com	44444444444444	Premium	Active
3	Issue14	genie.qualityassurance+17@gmail.com	NA	NA	Inactive
4	nafsa.ice+6@gmail.com	nafsa.ice+6@gmail.com	NA	NA	Inactive
5	Issue14	genie.qualityassurance+16@gmail.com	NA	Premium (1 Year 12 Months 3 Days Remaining)	Active
6	Issue40	genie.qualityassurance+15@gmail.com	asdfsdfasdfsdfasdfsdf	Premium (10 Days Remaining)	Active
7	Multiple Instructor Can Be ...	genie.qualityassurance+31@gmail.com	01764163125	Premium (1 Year 11 Months 29 Days Remaining)	Active
8	CreateInvo	genie.qualityassurance+14@gmail.com	12345678	Premium (1 Year 11 Months 28 Days Remaining)	Active
9	Licenmiss	genie.qualityassurance+13@gmail.com	33333333333333	Premium	Active

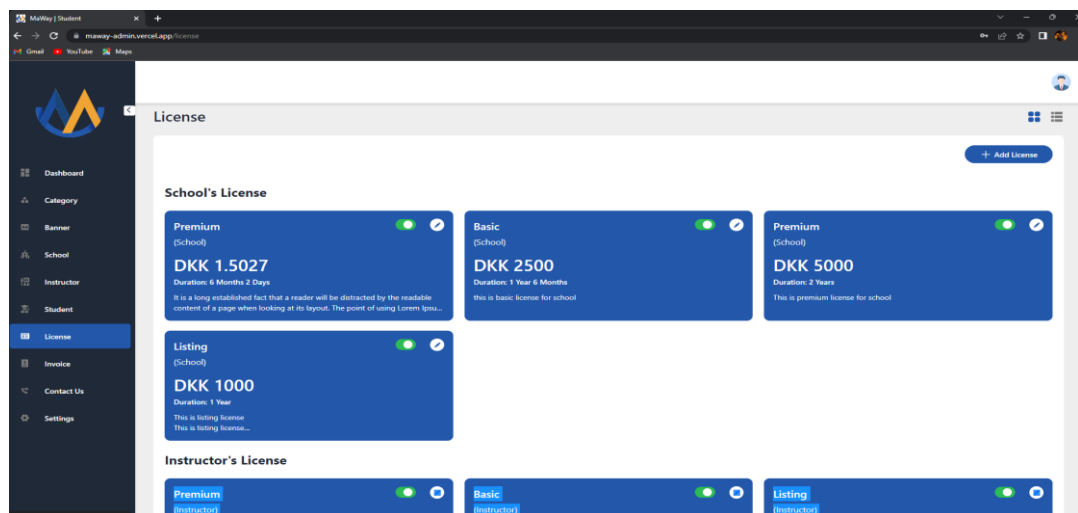
Students



The screenshot displays the 'Student Management' page. On the left is a dark sidebar with navigation options: Dashboard, Category, Banner, School, Instructor, Student (highlighted), License, Invoice, Contact Us, and Settings. The main content area features a search bar, a 'Show: 10 Entries' dropdown, and a 'Filter' button. Below is a table with columns for #, Name, Email, Phone, Curriculum, and Status. Each row includes a profile icon, a name, an email address, a phone number, a curriculum type (e.g., AM, A1), and a status (Active or Inactive).

#	Name	Email	Phone	Curriculum	Status
1	schooltest	gene.qualityassurance+22@gmail.com	01239548960742	NA	Inactive
2	issue40	gene.qualityassurance+18@gmail.com	NA	NA	Active
3	new	gene.qualityassurance+21@gmail.com	NA	AM	Active
4	myschool	gene.qualityassurance+20@gmail.com	01245784111	AM	Active
5	Rafiq	zmemor046+200@gmail.com	01952058274	NA	Active
6	test19	gene.qualityassurance+19@gmail.com	NA	AM	Active
7	S1-student	sumonshd+101@gmail.com	NA	A1	Active
8	Rafiq	tannoyapaul1006@gmail.com	01952058274	NA	Active
9	Emon bond 007	emonbond@gmail.com	NA	NA	Active

School's License



The screenshot shows the 'License' management page. The sidebar is identical to the previous screenshot. The main content area is titled 'License' and includes an '+ Add License' button. It is divided into two sections: 'School's License' and 'Instructor's License'. Each section contains several license cards with details such as type (Premium, Basic, Listing), duration, and price in DKK.

School's License

- Premium (School)**: DKK 1.5027, Duration: 6 Months 2 Days. Description: It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum...
- Basic (School)**: DKK 2500, Duration: 1 Year 6 Months. Description: this is basic license for school
- Premium (School)**: DKK 5000, Duration: 2 Years. Description: This is premium license for school
- Listing (School)**: DKK 1000, Duration: 1 Year. Description: This is listing license. This is listing license...

Instructor's License

- Premium (Instructor)**
- Basic (Instructor)**
- Listing (Instructor)**

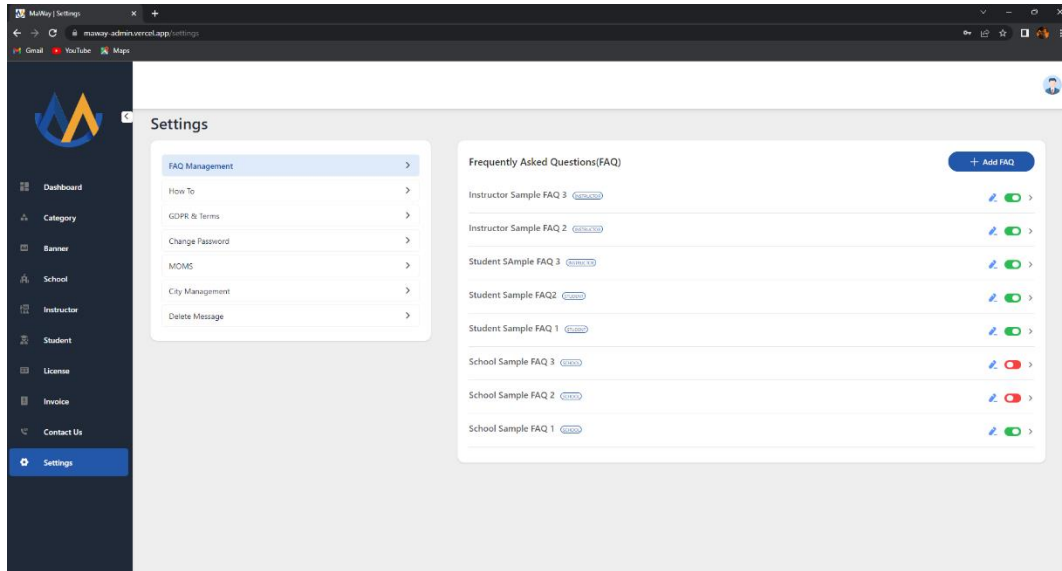
Invoice

#	From	Email	User Type	Created On	Last Action	Status
1	Manuf Test	manufahamed26+97@gmail.com	School	24 Nov. 2022	1 Day Ago	Created
2	Issue14	genie.qualityassurance+16@gmail.com	Instructor	24 Nov. 2022	1 Day Ago	Accepted
3	Issue14	genie.qualityassurance+16@gmail.com	Instructor	24 Nov. 2022	1 Day Ago	Rejected
4	Abc	genie.qualityassurance+26@gmail.com	Instructor	24 Nov. 2022	1 Day Ago	Requested
5	Testing 1	genie.qualityassurance+1@gmail.com	School	24 Nov. 2022	1 Day Ago	Accepted
6	Rana 1	aminulislamrana321@gmail.com	Instructor	24 Nov. 2022	1 Day Ago	Accepted
7	Testing 1	genie.qualityassurance+1@gmail.com	School	24 Nov. 2022	1 Day Ago	Rejected
8	Rana 1	aminulislamrana321@gmail.com	Instructor	24 Nov. 2022	1 Day Ago	Rejected

Contact Us

#	Name	Subject	Message	User Type	Date & Time	Last Action
1	Manuf DId School	To Notify. This Long Subject Message Is Written	this is a long text message	school	24 Nov. 2022	1 days old
2	Manuf DId School	Vjklbjbj	J uvkbnkbnk	school	24 Nov. 2022	1 days old
3	CreateInvo	Wrong	Wrong	instructor	19 Nov. 2022	6 days old
4	test19	Vv	Vbh	student	24 Nov. 2022	1 days old
5	S1-student	Ops	okay test	student	23 Nov. 2022	2 days old
6	S1-student	St Msg	hi mag	student	24 Nov. 2022	1 days old
7	Emon Instructor (Boss)	Hi Friends	Hi Friends	instructor	23 Nov. 2022	2 days old
8	Emon Instructor (Boss)	Hello	Hello	instructor	23 Nov. 2022	2 days old
9	Genie School & College	Emon Vai Nosto App Banay	Emon Vai Nosto App Banay	school	24 Nov. 2022	1 days old

Settings



CHAPTER 6 – EXPERIENCE AND ACHIEVEMENTS

6.1 OVERCOME PROBLEMS AND DIFFICULTIES

There are many troubles and hard conditions encountered while writing the code, within the starting, developing a whole mission. Having no enjoy running in any corporation and doing the sort of huge mission in an internship faced numerous conditions and issues and difficulties. I efficiently attempted to conquer these kinds of issues under the steering of the group leader. occasionally the group chief would provide videos or files to remedy issues, which had to be solved manually. in the course of this time, I needed to do quite a few fiddling, hours passed and eventually, a few answers and unresolved issues had been resolved underneath the guidance of the crew chief.

6.2 WORKING PRACTICES

My working hours are from 9 am to 6 pm. Lunch break is 1 hour and 15 minutes for prayer. There is also an option to do overtime for which some additional remuneration will be paid at the end of the month.

6.3 ACHIEVEMENT

My Skill have improved plenty for the duration of the internship that's a large achievement for me. due to those skills, I'm able to decide my destiny. This fulfillment of mine is my strolling companion. due to this achievement, I'm able to recollect myself a successful web developer.

CHAPTER 7 – CONCLUSIONS AND RECOMMENDATIONS

7.1 FINDINGS AND CONTRIBUTIONS

They take my opinion when they ought to take diverse types of choices inside the corporation. I assist my organization to take mission related decisions while one of a kind types of tasks come up. As I'm a web developer, I provide answers to their projects thru code. As an intern, I was in charge of fixing bugs and errors, designing website layouts JavaScript, react Js, Next , Mongo dB, mongoose, Redux, Redux-Toolkit, Passport.js, firebase designing email marketing campaigns.