UNIVERSITY OF COMPUTER STUDIES, YANGON

INTERNSHIP REPORT

July-August

In Partial Fulfillment of the Requirement for the Degree of Bachelor of Computer Science

Supervised By

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Team-8

i

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ACKNOWLEDGEMENT

ABSTRACT

The name of our project, Voting Management System is "Let's vote". It takes two weeks to finish this project. This "Let's vote" project is an online project that shares accurate information with the public and provides a comprehensive election-related information.

In this project, citizens will know which candidate is in the election, which parties are running in the election and where to vote and will also find out where the polling stations are. The main purpose of this project is not to confuse election misinformation. Citizens can use easily this project anywhere. Citizens may read electoral misinformation. So, voters need to use this web application to get correct electoral information. Because this project is involved accurate and right information. Voters need to know right and accurate information to get correct ballots in the election.

Voter can know parties and candidates running in the election. And then citizens can easily check personal data in this "Let's vote" project. If the personal data is incorrect or the name is not included, voters can go to the ward office and correct the mistakes in time.

For the citizens, this project is the beneficial project that provides accurate and up-to- date information at the same time during COVID-19 period. In this project, our team process creates, read, update and delete procedure to the according table.

CONTENTS

CHAPTER 1

Introduction

This internship is a three-month online virtual internship program. From this intern, we have been able to learn the best knowledge and experience as well as the ability to collaborate. This report describes how we worked together on the project throughout the internship and how we successfully completed the project

This internship is the very first virtual internship of our university and that started with many difficulties. At this pandemic time, students and all the representatives of the internship have to do their best, facing many different challenges besides technology, education and society. The team members worked professionally to fulfill their respective responsibilities and also tried their best to help solve many problems. The supervisor also provided us the necessary support with a patient. Therefore, we can prove in this report that we were able to make the project a success at this difficult time.

The internship duration is from July to August. It is a short-term duration. During that duration who participate with us?

Organization

The organization that supports us is the Irrahub.

What is IrraHub?

In August 2012, Irrahub was registered as a private IT company in list of companies in Myanmar. Irrahub is the extension of Technolsoft Pte Ltd. (Singapore IT Private Company). Irrahub was established to improve services in Myanmar IT Economic Market.

What does Irrahub work?

Government to Business(G2B)

Business to Business (B2B)

Business to Customer (B2C)

IT Education

Developing Project

Waterfall methodology

Agile methodology

Supervisor

Our supervisor is Dr.Thin Lai Soe. She is a lecturer at UCSY. She is kind- hearted. Throughout the internship, we received good advice, motivation and assistance from her. She is also a staunch supporter of patients and successful completion of the internship. She also pointed out and guided our needs well.

Our Team

Our team is Team 10. The members are

5CS-243 (CGWE-6) Mg Zaw Shine Htet (Project Manager)

5CS-293 (AIDM-155) Mg Htet Wai Yan (Developer)

5CS-89 (AIDM-60) Ma Wai Wai Htun (Developer)

5CS-149 (AIDM-94) Ma Honey Lin (Developer)

5CS-202 (AIDM-137) Ma Ei Pyae Pyae Phoo (Developer)

5CS-200 (AIDM-151) Ma Shwe Yee Phyo (Developer)

5CS-195 (AIDM-112) Ma Aye Chan Htet (Developer)

5CS-15 (CGWE-1) Ma May Myat Moe (Developer)

5CS-222 (AIDM-86) Ma Poe July (Developer)

5CS-244 (AIDM-85) Ma Wai Kyu Kyu Hnin (Developer)

The UE is Shwe Than Toe. The Quality Assurance is Nyan Lin Htet and delivery manager is Tin Aung Shein. The UE changes the design for our module as soon as we ask him. The QA checks our product and tells us where to modify. The delivery manager helps us when we combine the code.

CHAPTER 2

TASKS, PROJECTS AND ACTIVITIES

The members have their roles and responsibilities. The roles are the project manager, the business and system analyst and the developers.

2.1 Tasks and Activities

The tasks of each role will describe in this content. The members have completed their tasks. Completed tasks mean a success project.

2.1.1 Tasks and Activities of Project Manager

Before the sprint, the PMs are so tired of learning about the modules and planning the project. The project managers used the work breakdown structure to split the module and then inserted all the sub-modules in the Kanban flow to-do list. PM negotiated with BASA and developers and discussed the project over the internet. The internship period is a Stay Home period. Therefore, PMs have difficulties when negotiating. PMs were also responsible to write the project proposal, roles, and responsibilities report. Finally, made the presentation about the related module.

During sprint, PM discussed with UE about the design of the project. After finishing the design, they discussed about the modules and sub-modules of the project for each developer. Then they helped the developer when coding. Finally, they combined code and solved some errors. Moreover, they negotiated with other teams and discussed about the related modules when necessary.

After the sprint, PMs discussed with DM to combine code with another team. If there were some misunderstandings between team members, PMs tried to solve them. Finally, they discussed with QA to check the code and let them modified what they wanted in the project. Then everything has finished successfully.

2.1.2 Tasks and Activities of Business and System Analyst

Before the sprint, the BASA tried to understand the overall modules and discussed about the related modules such as ER diagram or Use case diagram. Then they combined the diagram with other teams.

During the sprint, they considered the database of each module and gave it to the delivery manager. They also considered how to join with other tables and discussed about the design and database with UE. Negotiated with the developers and explained to them about the database and design. When the developers didn't understand anything about the React framework, they explained and help to solve the error. Then discussed about the product with QA. And also helped other team's developers.

After the sprint, BASA had to prepare for the presentation of the overflow of the project. BASA drew the flow chart to present it and also help PMs to combine code.

2.1.3 Tasks and Activities of Developers

Before the sprint, the developers learned the React framework from Irrahub Internship Training. During the sprint, they developed the sub-modules and solved the errors. When solving errors, they helped each other and shared their knowledge.

Due to the Covid period, developers were able to work professionally online instead of consulting and coding together as before, giving them the same experience as in the real-world industry. Our team developed the process of create, read, update and delete procedures in Office table, Party table and Ward Table.

2.2 Modules

Our team have developed four modules. They are the sub-modules of Election Voting System.

Login Module
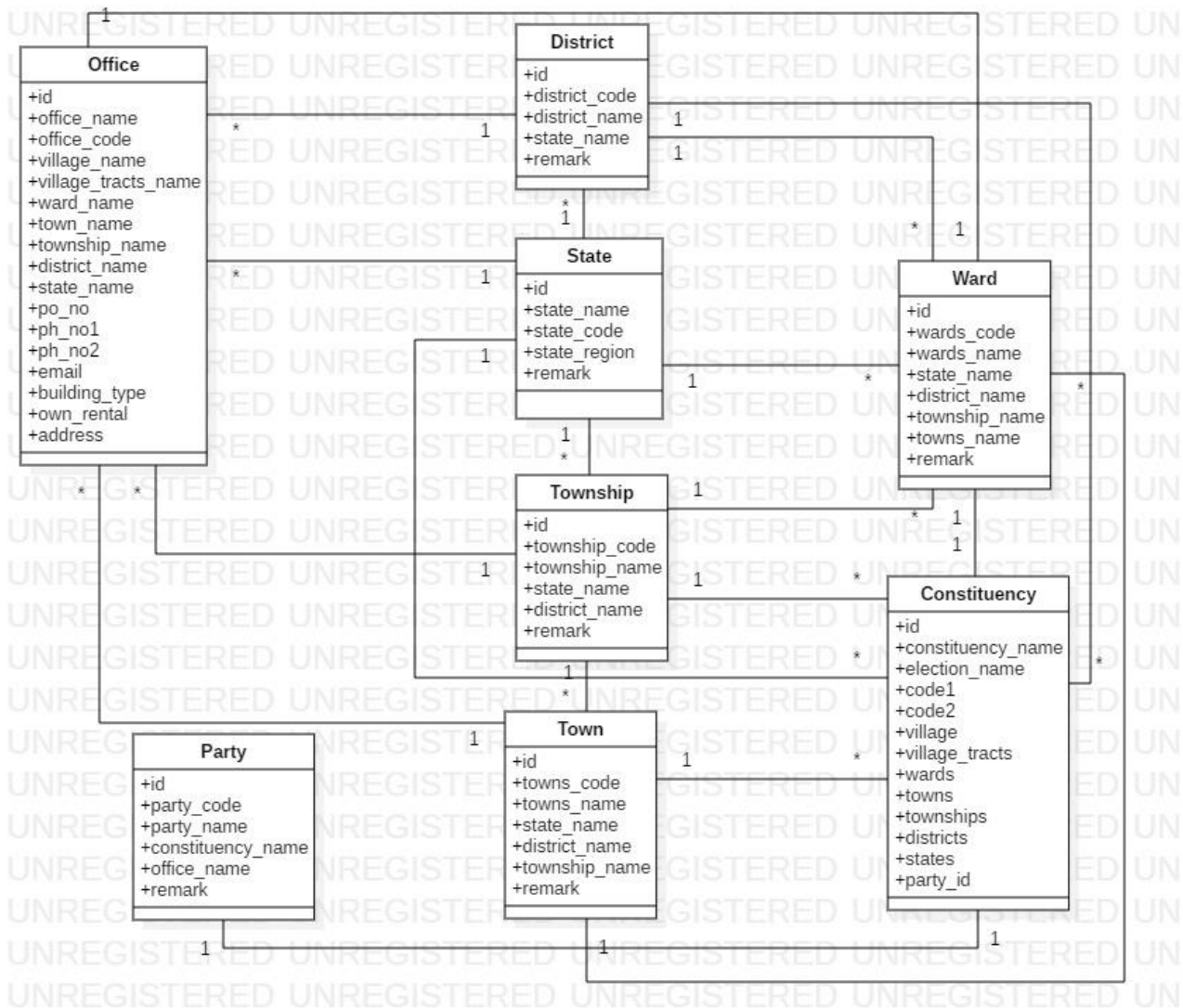Preview Module
CRUD Module
Logout Module

Class Diagram

Fig 2.1 Class Diagram

5

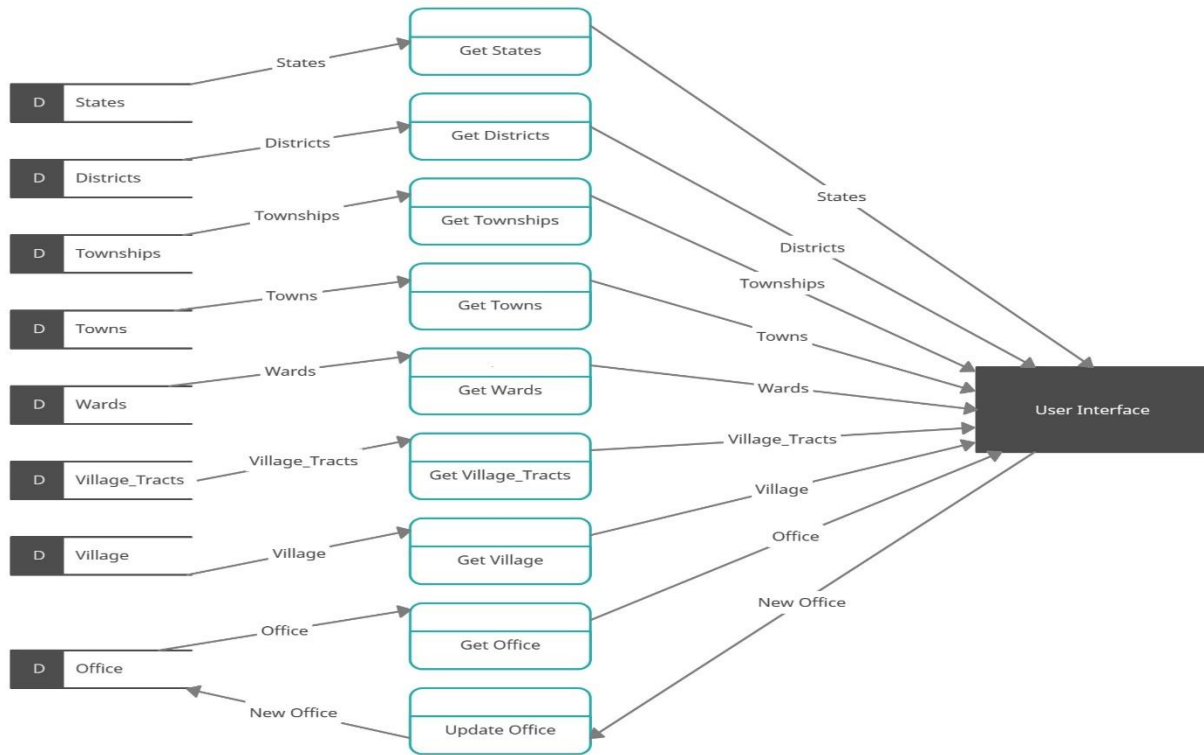**Data-flow Diagram for Office**

Fig 2- 2 Data-flow Diagram

for Office

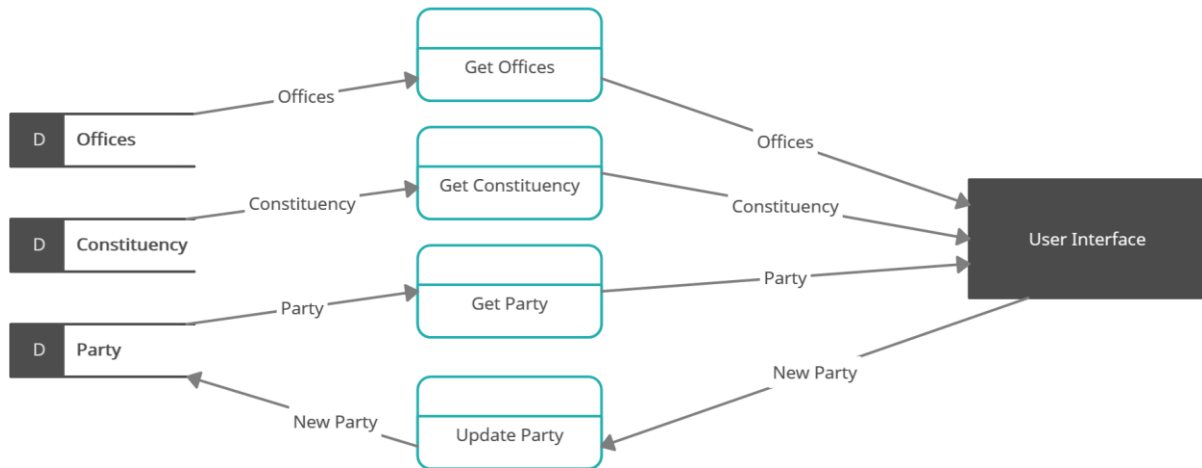# Data-flow Diagram for Party

Data-flow Diagram for Party

Fig 2- 3 Data-flow Diagram

for Party
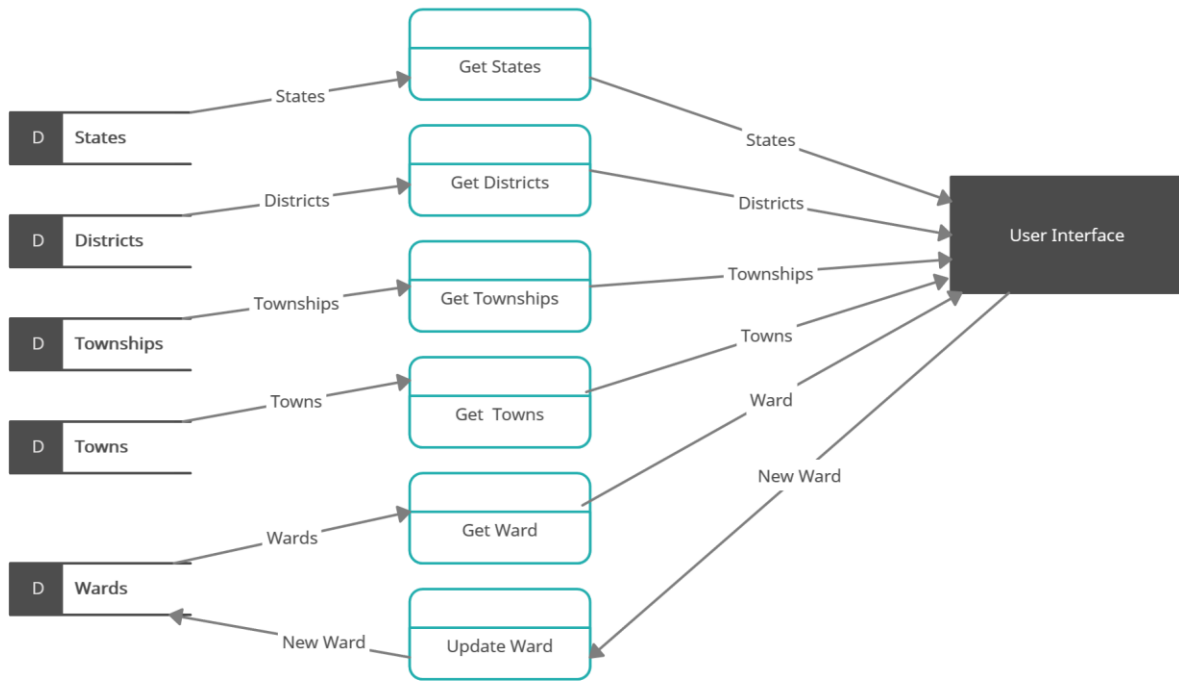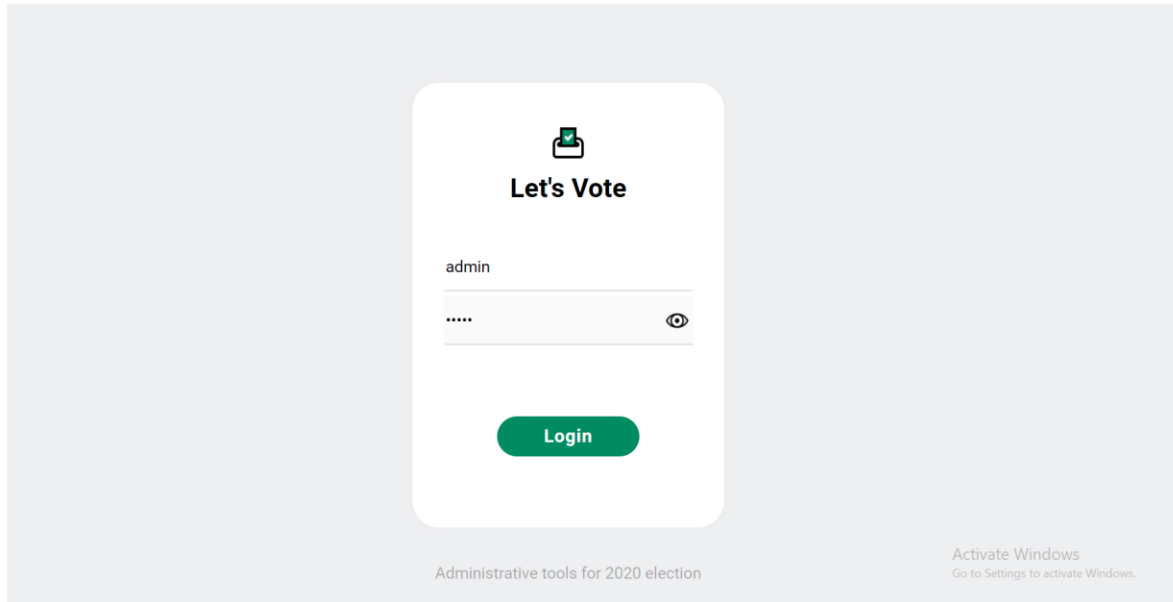
Data-flow Diagram for Ward

Data-flow Diagram for Ward

Fig 2- 4 Data-flow Diagram

for Ward

2.2.1 Login Module

Firstly, you need to have the admin account mail and password to log in and take control.

When you fill wrong information, the system will show "The Login detail is incorrect." message.
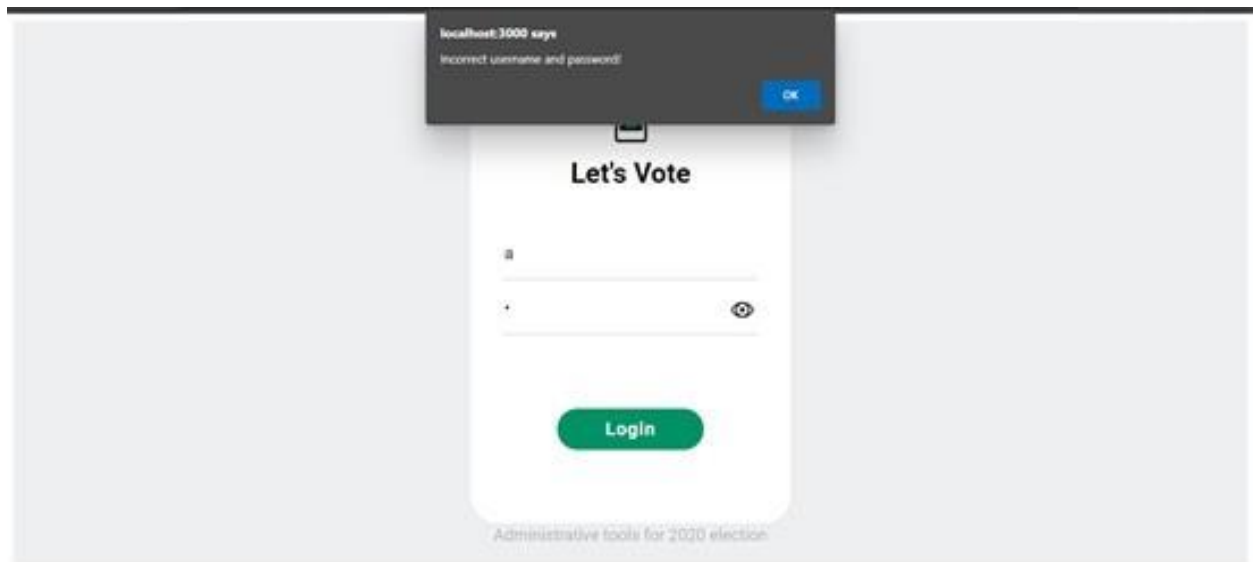

Fig 2-6 Login Alert

Page

If the information you provide is correct, your login procedure is successful and you will be navigated to the home page (state page) and can use the system as shown in Fig 2.5.

| | States | Districts | Townships | Towns | Villages | Village Tracts | Wards | Offices | Parties | Constituency | Candidates | Voters |

| + State | 🔍 Search | | | | | ⏻ Logout |

Action	No.	✎ State Code	✎ State Name	✎ State Region		✎ Remark
🗑	1.	MM-01	Sagaing	Central Northwestern ⌄		
🗑	2.	MM-02	Bago	Lower	⌄	
🗑	3.	MM-03	Magway	Central	⌄	
🗑	4.	MM-04	Mandalay	Central	⌄	
🗑	5.	MM-05	Tanintharyi	South	⌄	
🗑	6.	MM-06	Yangon	Lower	⌄	
🗑	7.	MM-07	Ayeyarwady	Lower	⌄	
🗑	8.	MM-11	Kachin	Northern	⌄	

Activate Windows
Go to Settings to activate Windows

Fig 2-7 Home
Page

11

2.2.2 Preview Module

In Fig 2-6, Once you are logged in, you will first be able to view the information of the entire system through the navigation bar.

And the, the system will show you information of each option you select.

	States	Districts	Townships	Towns	Villages	Village Tracts	Wards	Offices	**Parties**	Constituency	Candidates	Voters	

Action	No.	✎ Party ID	✎ Party Name	✎ Office	✎ Constituency	✎ Remark
🗑	7.	000000	Ta'ang National Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	8.	000000	National Democratic F	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	9.	000000	Pa-O National Organiz	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	10.	000000	New Democracy Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	11.	000000	National Unity Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	12.	000000	Zomi Congress for De	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	13.	000000	New Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	new remark
🗑	14.	000000	New Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	new remark

Fig 2-8 Home page

Preview

2.2.3 CRUD Module

As an admin, you can edit all the information as needed by clicking the edit icon.

Addition

If you want to add a row to table, you need to click the add option button (displayed as "+" beside the name) as shown in Fig 2-7.

| States | Districts | Townships | Towns | Villages | Village Tracts | Wards | Offices | **Parties** | Constituency | Candidates | Voters |

| + Party | Q Search | | | | | | ⊟ Logout |

Action	No.	⌀ Party ID	⌀ Party Name	⌀ Office	⌀ Constituency	⌀ Remark
🗑	5.	000000	Kayah State Democra	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	6.	000000	Shan National League	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	7.	000000	Ta'ang National Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	8.	000000	National Democratic F	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	9.	000000	Pa-O National Organiz	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	10.	000000	New Democracy Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	11.	000000	National Unity Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	12.	000000	Zomi Congress for De	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	Activate Windows Go to Settings to activate Windows.

Fig 2-9 Add procedure page

In Fig 2-8, you will see your added one row inside the preview table. One new row for
that added data will also added in the database.

Action	No.	✎ Party ID	✎ Party Name	✎ Office	✎ Constituency	✎ Remark
🗑	6.	000000	Shan National League	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	7.	000000	Ta'ang National Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	8.	000000	National Democratic F	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	9.	000000	Pa-O National Organiz	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	10.	000000	New Democracy Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	11.	000000	National Unity Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	12.	000000	Zomi Congress for De	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	13.	000000	New Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	new remark

States   Districts   Townships   Towns   Villages   Village Tracts   Wards   Offices   **Parties**   Constituency   Candidates   Voters

+ Party   Q Search   ⊟ Logout

Fig 2-10 Added a row in
Table Page

14

Searching an Office

     If you want to search particular information among other information, you need to click the search area (illustrated as lens image).

Fig 2-11 Search procedure

Page

Deletion a Party

    If you want to delete particular row, you need to click the delete option button (displayed as the trash can icon) of the row you want to delete.

    If you click the tick button, the row you want to delete will disappear from the preview table as well as from the database as shown in Fig.

States	Districts	Townships	Towns	Villages	Village Tracts	Wards	Offices	**Parties**	Constituency	Candidates	Voters

Action	No.	✎ Party ID	✎ Party Name	✎ Office	✎ Constituency	✎ Remark
🗑	6.	000000	Shan National League	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	7.	000000	Ta'ang National Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	8.	000000	National Democratic F	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	9.	000000	Pa-O National Organiz	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	10.	000000	New Democracy Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	11.	000000	National Unity Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	12.	000000	Zomi Congress for De	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	
🗑	13.	000000	New Party	Ayeyarwady Region Hluttaw Office ⌄	constituency 1 ⌄	new remark

+ Party   🔍 Search   ⤤ Logout

Activate Windows
Go to Settings to activate Windows.

Fig 2-13 Deleted a row from

Table Page

16

Updating an Office

If you want to update particular row, you need to click the update option button (displayed as the pencil icon) of the row you want to update under the "Actions" column as shown   in Fig.

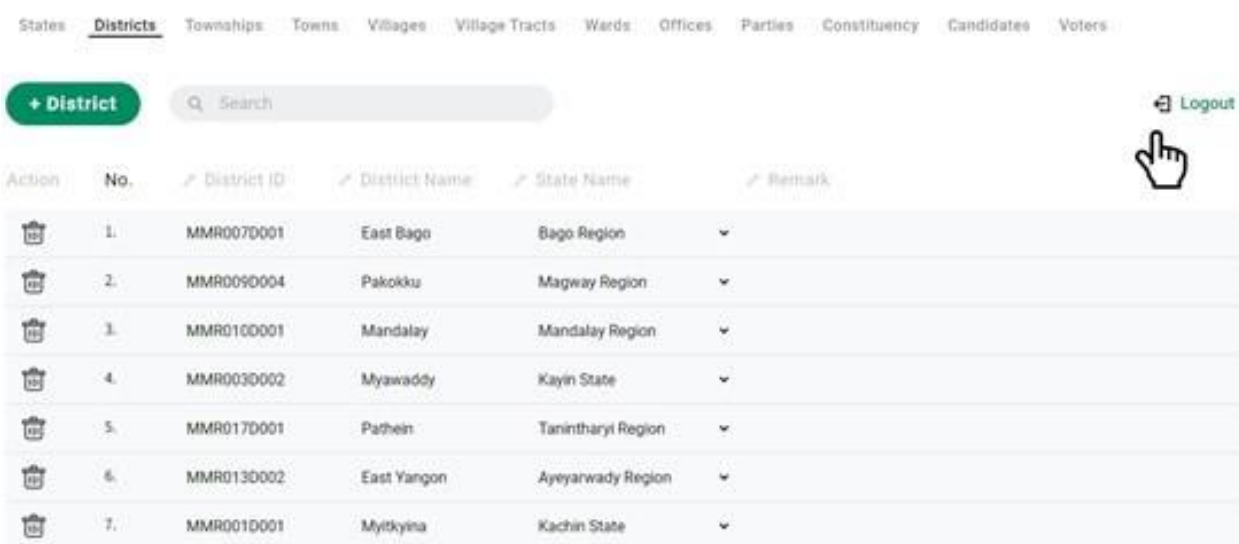| States | Districts | Townships | Towns | Villages | Village Tracts | Wards | Offices | Parties | Constituency | Candidates | Voters |

| + Ward | Q Search | | | | | ⇥ Logout |

Action	No.	✎ Ward ID	✎ Ward Name	✎ State	✎ District	✎ Township	✎ Town	✎ Re
🗑	1.	MMR007007701503	Warso	Sagaing ⌄	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	2.	MMR009021701503	Aung Chan Thar	Sagaing / Bago / Magway	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	3.	MMR010006701504	Zay Cho	Mandalay / Tanintharyi / Yangon	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	4.	MMR018003701502	Aung Zay Ya	Ayeyarwady / Kachin	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	5.	MMR013017701501	No(1)	Kayah / Kayin / Chin	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	6.	MMR015021701507	MeinPan	Mon / Rakhine	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	7.	MMR006006701502	No(2)	Shan / Sagaing ⌄	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	
🗑	8.	MMR005003701501	Myo Thit	Sagaing ⌄	Hkamti ⌄	Kangyidaunk ⌄	NayPyiTaw ⌄	

Activate Windows

2.2.4 Log Out Module

This section describes/presents/shows logout by admin. If you want to sign out from the system, you can do it by clicking the "Log Out" option which is in the information panel of the current account at the top right corner.

Fig 2-16 Log Out procedure

Page

CHAPTER 3

LEARNING THROUGH THE INTERNSHIP EXPERIENCE

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the students the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees.

3.1 Benefits of an Internship

Exploring is an important part of the university experience, and internships are a great way for students to acquaint themselves with the field they are interested in. Internships offer students the chance to put what they are learning into action, in a real-world environment. This helps us better understand the theories and strategies we have been reading about, cementing the learning process and giving us greater focus.The university teaches the theory and the concept of Computer Science. Then the internship let us practice. We use the theory we have learned and get practices and experiences during internship. They are great things we have got in internship.The biggest outcome of this internship is the collaboration and remote working experience. Members from different places have to collaborate online. Instead of being structured small group working as in previous years, a large number of members have to work together online. Thus, despite all the difficulties and inconveniences, we were able to handle the whole project well and get the best outcome of it, due to the hard work of everyone.

3.2 Skill Learned

Internship gives us opportunity to practice communication and teamwork skills. We gain industry knowledge first hand from an organization and professionals. The kills gained from internship are communication skill, team work, leadership, and also remote working experience.

By being involved in a remote internship, we are able to learn valuable skills andlearn to be productive in a different digital environment. Some of the benefits include timemanagement and communication. Time-management goes hand-in-hand with being able to create your own schedule. It's important to plan our days and ensure that we can still make timefor the things we need to get done. We are able to focus on the digital aspects of our work with fewer distractions, and we've become a more effective communicator during non-visual interactions. This remote internship has made us more patient person and improved our ability to work in a team. we have learned numerous things from this entire experience that we wouldn't have if life had carried on as normal.

We gain valuable experience and accomplishments to add to our resume and enhance our application to Graduate. Create an advantage over other job. Potential to a good job offer at the end of the internship based on our performance

CHAPTER 4

CONCLUSION

Internship is the valuable duration for every student. An internship is an opportunity to test out a career field of interest. For many students, an internship their first exposure to a professional work setting. After internship, our presentation skills are also increased. The communication skill, management skill, programming skill have increased during internship.

Today, employers favor prospective employees who have done not only one internship but multiple internships. A collage education will serve to propel a graduate into a profession by conferring a degree, which demonstrates an academic proficiency in various theoretical and practical examples of ways that a job might be performed. An internship makes the classrooms abstract theories and learned examples concrete by placing the student in a real-life work situation. COVID-19 has affected all features of life around the world, in all nations and all businesses. However, that doesn't mean we can't use this time to work on our academic study and our career skills.

This three-month internship period gives the experiences of how to communicate with each other remotely, what can do learning during this time, how to apply the things learned in the past years, and finally students got the chance of which can be encountered in real world as stress, time management and enhancement of competence. Meanwhile, we experienced the anxious about our responsibilities but surely that could give the helpfulness to our project headway and progress. By the way, as a participant in this internship, students got the awareness of how software development architecture is running through the real world and each role in this structure is 'what a captivation' and also give the chance of how the roles' responsibility is be respectively. Alternatively, about the theory around four years have been learned and the only thing should be done is how to apply this theory in real world. The experiences that have encountered is priceless for every student to goal ahead along their life.

The election voting system tends to maximize the level of participation by allowing them to vote from anywhere and allowing access from different computer systems and from any device that has an internet connection. Increases accessibility for residents abroad and persons with difficulties in traveling or reduced mobility. This also has a positive impact on the final turnout and therefore on the legitimacy of the election. The reduction in organizational and implementation costs significantly increases the efficiency of election management compared to traditional paper voting, for example. The electronic vote eliminates errors in the manual count,

which brings with it an accurate and quick publication of results, with receipt of the vote for each vote cast.