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தேசிய பயிலுநர் கைத்தொழில் பயிற்சி அதிகாரசபை

NATIONAL APPRENTICE AND INDUSTRIAL TRAINING AUTHORITY

DAILY DIARY

UNDERGRADUATE / DIPLOMA

INDUSTRIAL TRAINING

WEEK NO :…… (01) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …09…/…07…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	**2023/07/03**	_____
Tuesday	**2023/07/04**	• Discussed about the development of New ATI Website with the Director of ATI Batticaloa, and gathered all the functional and Non-functional requirement of the new website. • Had a look into the existing ATI website and found the missing requirements. That website is looking older design. so I have decided to design new website to the ATI with their new requirement and modern design.
Wednesday	**2023/07/05**	• I have designed wireframe for New Website of ATI. Which has several navigation menus and All the essential component of an academic website. • Also, this wireframe is confirmed by the director of ATI and given the permission to design the expected UI for this wireframe. • Design the draft UI using Figma with the appropriate tools.
Thursday	**2023/07/06**	• Design Home page of ATI. On this day, I have created Navigation Main Menu. • Added suitable font style and font color to the Menu. • Add Hover Effect to the menu. • Created sub navigation menu and linked to the related page.
Friday	**2023/07/07**	• Resize the Header Size and add Sticky functionality to the Menu. • Create Slider as the Hero Section of ATI Website. • Choose suitable picture to the slider and Add Title and Subtitle to the pictures. • Created Another Second Section to Display the Brief Introduction about the institute. • Had a meeting with the director and discussed the progress of the system and analyzed the changes in the system.
Satur day	**2023/07/08**	**Weekend Holiday**
Sunday	**2023/07/09**	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

First Day I have learnt the environment and Discussed with all other staff and stakeholders. I met all the academic and non-academic staff and introduced myself to them. On the second day, I received a work from the director of ATI, Batticaloa. He gave me a task that is "Design an attractive website for their institute". Already they have website. The thing is, that website does not look good and does not satisfy their requirements. So, I have gathered all the functional and non-functional requirements and double checked with the team. They agreed with the requirement, and I have drawn the wire frame for the website. After that I designed User Interface based on the wireframe using Figma.

After that, I have hand overed the UI to the director of ATI, and he was satisfied with my UI. Then he was given permission to develop the website. So, I started my work from the header with the UI. There are so many menus and sub menus.

After that, I created a Navigation Menu with the suitable font color, font size and Header size. Then after I added hover effect to the menu. Then the director checked the output, given some changes from the site.

I have resized the Navigation menu and Added the Sticky functionality of the website. After that, I changed the header color to a little bit brighter than the old color. After that, the director has confirmed that his expected output matches my current work.

In this week, I have learnt "How to design wireframe, UI and Header part of a website". I have watched so many YouTube tutorials and got so many ideas from the supervisor to do this task. I have tried again and again to solve the problem. because my aim is to provide a highly satisfied output to them.

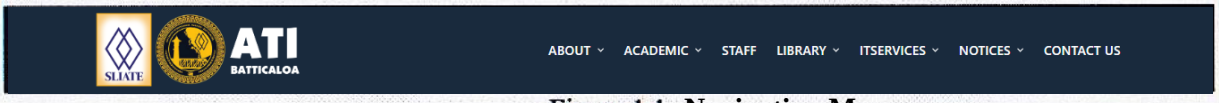

Figure 1.1 **Navigation Menu**

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

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SIGNATURE

WEEK NO :…… (02) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …16…/…07…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/07/10	• Updated the changes of Slider and Introduction Section. • Created Student Testimonial Section and Added Some Students Testimonials. • Taken backup the source code and stored the backup in Google Drive. • Designed Student Count, Staff Count, Course Count, Count of Success Stories Card. • Designed Upcoming Event & Past Event Section and Add Calendar View for that.
Tuesday	2023/07/11	• Continuous working on ATI Website and updated the changes given by director. • Created News and Events Section and Displayed on the home page. • Troubleshoot Internet Connectivity Problem in Admin Office and Computer Lab. • Installed Operating System into Admin PC. • Changed the background colour of News and Events Section
Wednesday	2023/07/12	• Created About us Page to ATI Official Website. • Update New Announcement into New ATI Website. • Created Director Generals Page and Added Director General's Message into it. • Create Unique Image Shape using Adobe Illustrator to Display director image. • Create and Published Director Message and Displayed Director Image. • Create and Published Vision and Mission Page.
Thursday	2023/07/13	• Activate Microsoft Office Package for all the PC from the Computer Lab. • Continuous working on Website Project. Taken backup of all the files and stored them into Google Drive for additional backup. • Added New Menu Item called Academic and created sub menu items such as Courses, Examination Rules and Regulations.
Friday	2023/07/14	• Created Network Drive in Lab PC and Share this drive among all the connected terminals. • Had meeting about the progress of the Website. • Create a Footer Section and added Important Links of the Website. • Added Sticky Animation of the header. • Checked whether all the previous changes are working correctly or not.
Saturday	2023/07/15	**Weekend Holiday**
Sunday	2023/07/16	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

In this week I have done so many tasks, I have created Slider section as the Hero Section of this website. Add JavaScript Library to the slider for smooth scrolling. And I have designed appropriate Image using photoshop for the slider.

Then after I have created student testimonial section. In this section, I have added the past student's feedback and their current position. After that, I took back up the site and saved a copy of the backup in my google drive.

After that, I have Created News and Event Section and Displayed some of Events and Information. After that, a PC from an admin lab got internet connectivity issue. I was checked the issue and fixed the issue by checking the RJ45 Connector. And The PC got slowed. So, I have Reinstalled Operating System on that PC and then I have installed software application.

After that, I was started my web design work. I have changed the background color of the News and Event Section. After that I created another page called About Us. Then I posted a new announcement to the website.

Under the About us page, I have added director message and his image in the appropriate size. Then I have designed vision and mission page. Then after I went to Computer Lab, and then I have activated Office package to 17 PC from the computer lab. After that I took a backup of the website. and then saved the copy of the backup into my google drive.

Then I created academic menu and added some academic rules and regulations page.

On Friday of this week, I created shared network drive on the admin pc in Computer lab and stored all the assignment into that shared drive. After that I had a meeting about the progress of the website, and we discussed some of the alter ideas to solve some solution. I have added sticky header on the website.

In this week, I really learnt "How to create Network Drive and How to Fix RJ45 Cable with the help of proper tools".

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REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

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SIGNATURE

Sivarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (03) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …23…/…07…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/07/17	• Created HNDA Course Page and added Course Description and Course Content into it. • Created HNDIT Course Page and added Course Description and Course Content into it. • Created HNDE Course Page and added Course Description and Course Content into it. • Created HNDTHM Course Page and added Course Description and Course Content into it.
Tuesday	2023/07/18	• Update the content of Examination rules and regulations page. • Documented all work which had been done till today. • Collaborate with the team and ensure the quality of the website. • Identified the performance of the website and removed larger image.
Wednesday	2023/07/19	• Learn New things from Internet and Update the new style to the website. • Taken back up the Database and keep the record into Google Drive. • Created and Shared Google Sheet to Collect More Information of the Students. • Created Staff Page and Updated all the academic and nonacademic staff into the page.
Thursday	2023/07/20	• Learn New Tools and Technologies from the Internet. • Integrated Two Factor Authentication to the Cpanel and Website with Google Authenticator. • Update the php version of the web server. • Created Library Menu and Added sub menus such as Librarian and About Library.
Friday	2023/07/21	• Analyzed the web content from the server and removed unwanted files and malware. • Tested the quality of the Website and Checked all the UI Changes. • Done changed given by the team and retested the website with their requirement. • Taken Full Backup of the website.
Saturday	2023/07/22	**Weekend Holiday**
Sunday	2023/07/23	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

The week was marked by a comprehensive expansion of the ATI (Advanced Technical Institute) website, with a focus on providing detailed information about various courses offered. Specific course pages, including HNDA, HNDIT, HNDE, and HNDTHM, were meticulously created. Each page incorporated comprehensive course descriptions and detailed course content, enriching the website's educational offerings.

The examination rules and regulations page received an update to ensure accuracy and relevancy. Concurrently, a diligent documentation process was initiated, summarizing all completed tasks up to the current date, contributing to a well-organized and accessible record of the project's progression.

Collaboration with the team was a priority, emphasizing the importance of maintaining the quality of the website. Performance optimization efforts were undertaken, including the removal of larger images to enhance overall site speed. Additionally, a commitment to continuous learning was demonstrated by acquiring new insights from the internet and implementing fresh styles to further elevate the website's design.

Data security and information collection were addressed through the creation and sharing of a Google Sheet to collect additional student information. A staff page was introduced, featuring updates on all academic and non-academic staff, providing a comprehensive overview of the institute's personnel.

Further technical advancements included learning new tools and technologies from the internet, integrating Two-Factor Authentication to both the Cpanel and website using Google Authenticator for enhanced security. The PHP version of the web server was updated to ensure compatibility and performance improvements.

A dedicated library menu was created, featuring submenus for the librarian and information about the library. A thorough analysis of web content from the server was conducted, leading to the removal of unwanted files and malware, contributing to a more secure and efficient website.

Quality assurance remained a top priority, with extensive testing conducted to validate UI changes. Feedback from the team was incorporated, and the website underwent retesting to ensure alignment with their requirements. Finally, a comprehensive backup of the entire website was taken, solidifying data protection measures and ensuring readiness for future developments.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

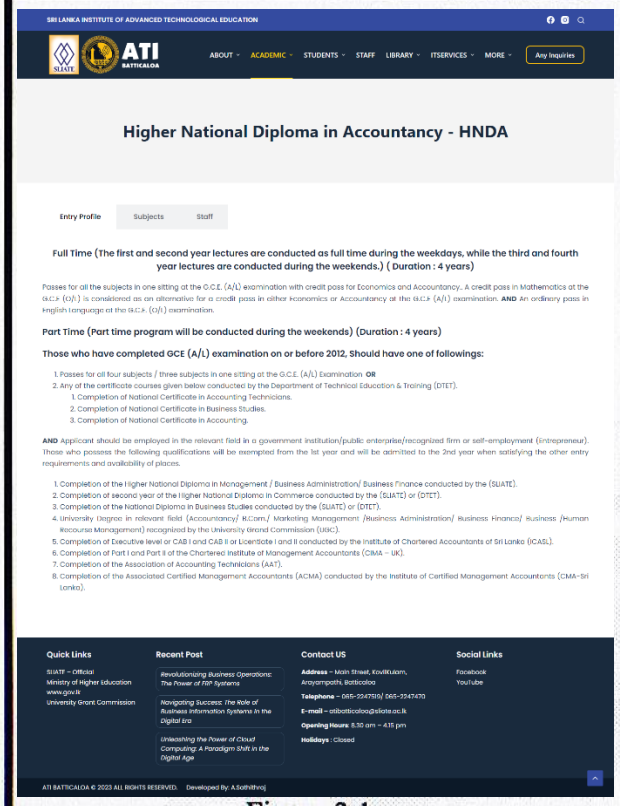

Figure 3.1
HNDA Page

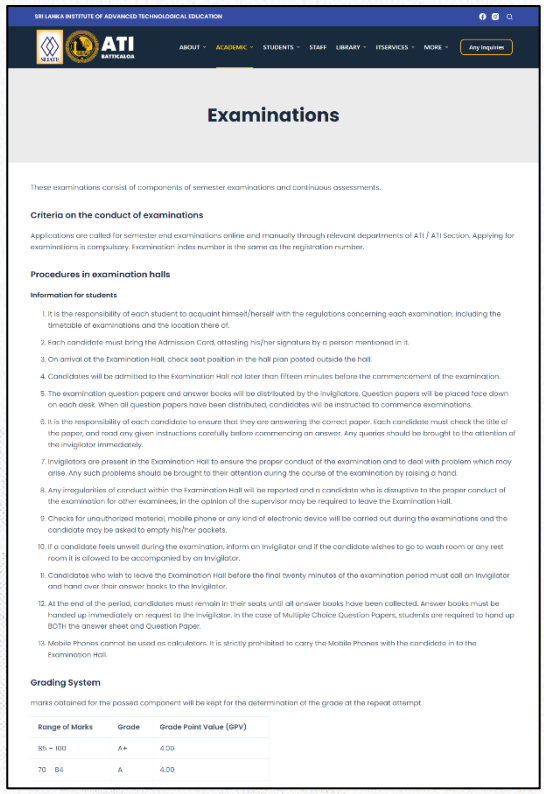

Figure 3.2
Examination Rules and Regulation page

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SIGNATURE

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (04) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …30…/…07…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	**2023/07/24**	• Collaborated with the Team and Discussed the progress of the New System. • Inserted Description and Gallery to the Library Page. • Updated Librarian Page with suitable documents and descriptions. • Created IT Services Page and added Sub navigation links to that.
Tuesday	**2023/07/25**	• Fixed the Server Issue by config the file and php extension from the Cpanel. • Tested website and ensured the performance of the website. • Linked Existing Learning Management System under IT Services Page. • Created New Page called IT Laboratory Under IT Services Page and added suitable description with Gallery.
Wednesday	**2023/07/26**	• Installed IntelliJ IDEA Software to all PC of Computer Lab. • Installed Anti-Virus Software into Computer Lab. • Identified Some Computer which are affected by Operating System Failure, and then Installed New Operating System to that.
Thursday	**2023/07/27**	• Collected Assignment files from Students through Network Drive and Submitted those assignments to the relevant Lecturer. • Continuous working on ATI Official Website. • Created Notice Menu and added Announcement, Event, New Vacancies submenus into it. • Taken backup of all the changes and stored the backup file into Google Drive.
Friday	**2023/07/28**	• Edited Announcement Page and added Card to Display the new announcement. • Made announcement widget to display limited no of announcement and added button to read more. • Added Date and time to the announcement widget. • Added Hover Effect to the announcement widget. • Tested all the previous changes and tasks. Ensured the performance and quality of the website.
Saturday	**2023/07/29**	**Weekend Holiday**
Sunday	**2023/07/30**	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

The week was characterized by continued collaboration within the team, fostering discussions on the progress of the new system and ensuring alignment with project goals. Several key enhancements were made to the ATI (Advanced Technical Institute) website, reflecting a commitment to providing comprehensive and valuable information.

The library page saw notable updates, with the insertion of detailed descriptions and a gallery, enriching the user experience. The librarian page was also revamped, incorporating relevant documents and descriptions for a more informative presentation.

A new IT Services page was introduced, featuring sub-navigation links for enhanced accessibility. Server issues were addressed by configuring files and PHP extensions from the Cpanel, ensuring the website's seamless operation. Rigorous testing was conducted to verify the website's performance and identify any potential issues.

Under the IT Services section, existing Learning Management System integration was implemented, providing a centralized platform for educational resources. A new page dedicated to the IT Laboratory was created, complete with a suitable description and gallery to showcase the facilities.

Practical IT support tasks included the installation of IntelliJ IDEA software and antivirus software on all computers in the computer lab. Identification and resolution of operating system failures in some computers involved the installation of new operating systems, optimizing functionality.

Efficient file management was demonstrated through the collection of assignment files from students via the network drive, facilitating seamless submission to the relevant lecturers. The Notice menu was introduced, encompassing submenus for announcements, events, and new vacancies. Rigorous testing followed, ensuring the performance and quality of the website.

Backup measures were diligently undertaken, with all changes stored securely in Google Drive. The announcement page underwent editing, featuring a card display for new announcements, a widget to showcase a limited number of announcements with a "read more" option, and the addition of date and time information. A hover effect was implemented to enhance user interaction, and thorough testing validated the effectiveness of all previous changes and tasks. Overall, the week showcased a comprehensive and dynamic approach to website development and IT support at ATI.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

Figure 4.1
Meeting with Clients

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SIGNATURE

Selvarathnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (05) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …06…/…08…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/07/31	• Edited Event page and Inserted Past Event, Upcoming Event and Event Calander. • Updated News Widget and Linked Recent Posts to that. • Created Vacancies Page and Created card to display the vacancy posts. • Resize the card widget related to Screen. • Created Blank Contact Us Page.
Tuesday	2023/08/01	**Poya Day**
Wednesday	2023/08/02	• Designed Contact us page with Google Map, Contact No, Email and Official Address. • Designed contact form and integrate email with this form. So, all the form data will be collected via official email. • Enabled Google Recaptcha Version 3 with the website. • Enabled two-factor authentication to admin user login. • Inserted Social Media Links above the Main Header and navigated the link with corresponding social pages.
Thursday	2023/08/03	• Created Terms and Conditions, Privacy Policy, Disclaimer page and displayed those pages in the footer. • Create MailChimp Account and integrate MailChimp account with the website. • Tested Mailchimp Account with Demo Content. • Created Cookies Notice and Embedded with the website. Displayed Cookies Notice in the webpage. •
Friday	2023/08/04	• Cleared the Browser Cache, Site Cache, And Serer Cache. • Taken full backup of the website and Database. • Collaborate with the team and check the quality of the system. Some changes are being made to improve the site. • Tested Page Speed in Google Page Speed Insight and ensured the speed of this website.
Satur day	2023/08/05	**Weekend Holiday**
Sunday	2023/08/06	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

The week was marked by strategic enhancements to the ATI (Advanced Technical Institute) website, focusing on various aspects to improve user experience, functionality, and overall quality.

Updates to the Event page included the addition of past events, upcoming events, and an event calendar, providing visitors with comprehensive information on institute activities. The News widget was refined, linking recent posts to facilitate easy navigation. A dedicated Vacancies page was introduced, featuring a card layout to display vacancy posts, with careful resizing for optimal screen compatibility.

Efforts were dedicated to establishing a Contact Us page, which was initially created as a blank canvas. This was later designed to include essential elements such as a Google Map, contact numbers, email information, and the official address. A contact form was integrated, ensuring that all form data would be collected via the official email. Additional security measures were implemented, including enabling Google Recaptcha Version 3 and two-factor authentication for admin user login.

Social media engagement was enhanced by inserting social media links above the main header, providing convenient access to corresponding social pages for increased connectivity and interaction.

Legal and policy-related aspects were addressed through the creation of pages for Terms and Conditions, Privacy Policy, and Disclaimer, all displayed in the footer for transparency and compliance. The establishment of a MailChimp account and its integration with the website served to streamline communication, with testing conducted using demo content to ensure optimal functionality.

To enhance user awareness, a Cookies Notice was created and embedded into the website, with visibility ensured on relevant webpages. Routine maintenance tasks included clearing browser cache, site cache, and server cache. Full backups of the website and database were taken, reinforcing data security.

Team collaboration remained pivotal, with discussions and quality checks leading to ongoing improvements. In-depth testing using tools like Google Page Speed Insight was conducted to verify and optimize the website's speed. Overall, the week's efforts showcased a holistic approach to website development, security, and user engagement at ATI.

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SIGNATURE OF TRAINEE

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

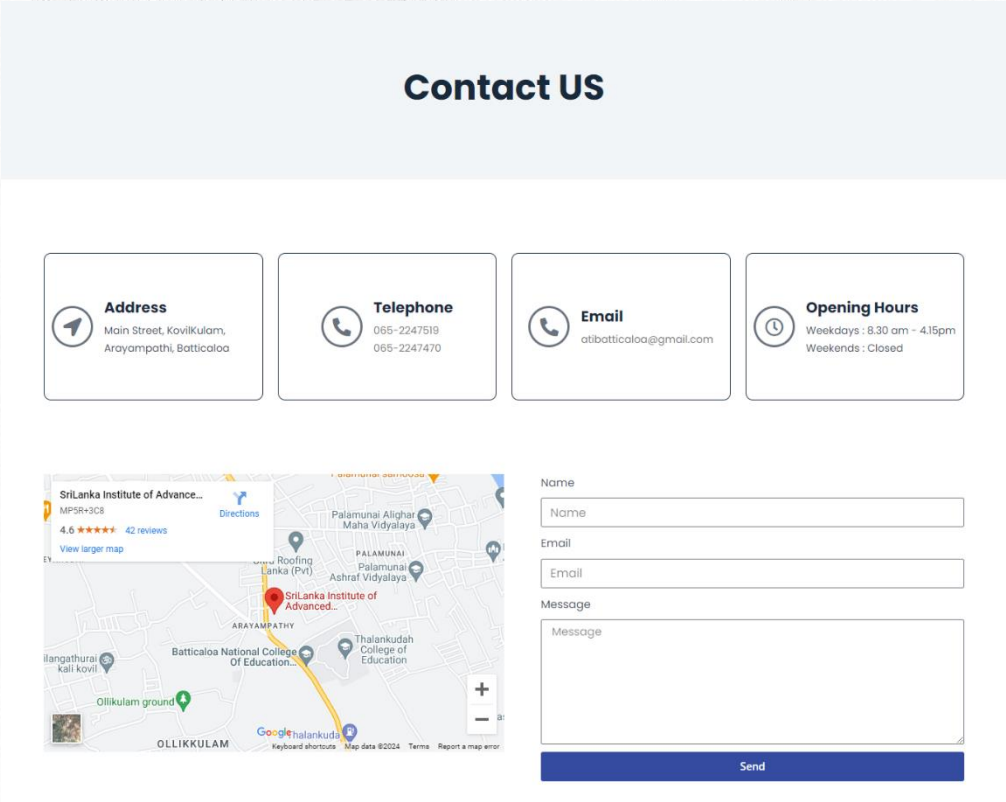

Figure 5.1 **Contact us page**

Figure 5.2
Logo of Google Recaptcha

Figure 5.3
Logo of Google Authenticator

Figure 5.4
Logo of Mailchimp

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

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SIGNATURE

Selvarethinam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (06) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …13…/…08…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/08/07	• Troubleshoot Internet Problem in the IT Laboratory. • Fixed Internet RJ45 Cable and Probably fixed into Switch. • Taken new website task for an institute and had a meeting with client. • Gathered all the functional and non-functional requirements of the system. • Bought Domain and setup DNS server successfully. • Install Wordpress to that domain. • Removed Unnecessary plugins and themes.
Tuesday	2023/08/08	• Selected a suitable theme to design this website. • Install required plugins and customize the theme. • Designed a brand logo to that institute using Adobe illustrator Software. • Created favicon image with Adobe illustrator Software. • Designed Slider Images using Adobe Photoshop and Compressed image size.
Wednesday	2023/08/09	• Created Homepage and changed this page to the front page of the site. • Inside this homepage successfully Designed Slider Section without adding content. • Adding Content to slider such as Heading, Subheading, and button. • Created Second Section using Elementor page builder. • Inserted Heading to the second slide. • Created Course Category Cards And designed those cards with shadow effect. • Added Hover Animation to all the cards.
Thursday	2023/08/10	• Converted the section as mobile friendly. • Added Js Particles Animation ('Snow effect') to that second section. • Changed the section height as Full Vertical Height (100%). • Created 3rd Section using elementor page builder. • Added Heading to this 3rd Section. • Designed description cards and added content into this card.
Friday	2023/08/11	• Inserted suitable icon, subheading, content, and buttons inside the card container of 3rd Section. • Created suitable pages for the cards and hyperlinked with the related buttons. • Convert this 3rd section for mobile device and tablet device. • Checked mobile responsiveness of the website. • Installed new plugin called All In One WP Migration to take the local backup of the website. • Taken Backup of Website files and Database files and Stored all the files into my personal google drive for addition backup.
Saturday	2023/08/12	**Weekend Holiday**
Sunday	2023/08/13	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

During this period, my tasks extended beyond the existing ATI project to encompass a new website for an institute. The week commenced with troubleshooting and resolving an internet problem in the IT laboratory, involving the fixing of an RJ45 cable and ensuring proper connectivity to the switch.

Venturing into the new project, I engaged in a client meeting to gather comprehensive functional and non-functional requirements for the institute's website. Key milestones included purchasing a domain and successfully setting up the DNS server, followed by the installation of WordPress on the domain. Subsequent optimization involved removing unnecessary plugins and themes, selecting a suitable theme, and customizing it to meet the client's specifications.

The branding aspect of the new website was addressed by designing a brand logo and a favicon using Adobe Illustrator. Slider images were crafted with Adobe Photoshop, ensuring optimal size compression. The homepage underwent a transformation, with the creation of a slider section, the addition of content, and the integration of a second section using Elementor page builder.

Mobile responsiveness and user engagement were prioritized through the addition of hover animations, a 'Snow effect' using Js Particles Animation, and adjustments to section height for full vertical display. The third section was meticulously crafted, incorporating heading, description cards with relevant content, icons, subheadings, and buttons. Pages were created for each card, facilitating seamless navigation.

The website's mobile responsiveness was thoroughly checked, ensuring a smooth user experience across devices. To safeguard progress, the All In One WP Migration plugin was installed for local backups. A comprehensive backup strategy was implemented, with files and database backups securely stored in personal Google Drive for additional security.

This week showcased not only troubleshooting and maintenance for the ATI project but also significant strides in the initiation and development of a new website for another institute, underscoring versatility and proficiency in web development and design.

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SIGNATURE OF TRAINEE

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

MY NEW HOME SCHOOL

Figure 6.1 **Logo of My New Home School**

Figure 6.2
Hero Section of Homepage

Figure 6.3
Sub Hero Section with Cards

Figure 6.4
Course Description Section

SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

SIGNATURE

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (07) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …20…/…08…/…2023…	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/08/14	• Created Sub hero Section. • Added Background Image and Image Overley to that background image. • Added Heading and content into that section. • Installed and Activated WP Event Manager Plugin. • Created Another Section to display Events such as Past Events and Upcoming Events. • Designed event block with External CSS Styles. • Changed the background colour of Event Widget.
Tuesday	2023/08/15	• Created another container under Event widget. • Inside this widget, I have added post widget to display latest post only. • Added Margin and padding to this widget. Also changed the background coour as blue. • Then, I fixed the server issue problem in the IT Lab. • Fixed the ip address and dns server to solve this problem. • Tested file transfer connection within two computer using LAN.
Wednesday	2023/08/16	• Then I continued the web design task. At this time, first I installed a plugin called Elementor header and footer builder to create attractive footer for this website. • Created footer widget and added 5 columns. • In the first column, added Logo and description, and in other columns, I have added related content and hyperlinks. • At bottom of the footer, I created another container to display the copyrights information of the website.
Thursday	2023/08/17	• Added some post under latest post category. And check the display result of the news widget. • Changed the slider of ATI Official website and added different images to that. • Changed the design of Second Section of ATI Official Website. • Designed new looks for the courses and hyperlinked with related pages. • Created Menu of the Institute LMS Website. • Designed the header for this website and added hover effect and animations.
Friday	2023/08/18	• Created a new page called “about us”. Added this about us page under About Menu. • Inside this about us page, I have designed a hero section and added heading of the page inside this hero section. • Added Snow Js Particles effect to that container and changed the background colour as “Blue”
Saturday	2023/08/19	**Weekend Holiday**
Sunday	2023/08/20	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

The week was marked by significant progress on both the new institute website and ongoing tasks for the ATI Official Website. Starting with the institute website, I created a Sub Hero Section, incorporating a background image with an overlay, and added relevant heading and content. The WP Event Manager Plugin was installed and activated to manage events, leading to the creation of a dedicated section to display Past and Upcoming Events.

To enhance the visual appeal of the events section, I designed event blocks using external CSS styles. Background color adjustments were made, and additional containers were created to display the latest posts. Server issues in the IT lab were effectively resolved by fixing IP addresses and DNS servers, and successful file transfer connections between computers were tested over LAN.

Continuing with web design, the Elementor header and footer builder plugin were installed for the new institute website. A visually appealing footer was created with five columns, housing logos, descriptions, and hyperlinks. Copyright information was displayed at the bottom of the footer for clarity. Latest posts were added to the news widget, and adjustments were made to the slider and the design of the Second Section on the ATI Official Website.

For the institute's LMS website, I designed a header with hover effects and animations, creating a visually engaging experience. The 'About Us' page was introduced under the 'About' menu, featuring a hero section with a heading and a Snow Js Particles effect, enhancing the page's aesthetics.

This week showcased a versatile approach, combining troubleshooting IT lab issues, addressing server problems, and progressing with web design tasks on multiple fronts. The integration of plugins, the design of various website sections, and attention to visual elements underscored a holistic and skillful approach to web development.

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SIGNATURE OF TRAINEE

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

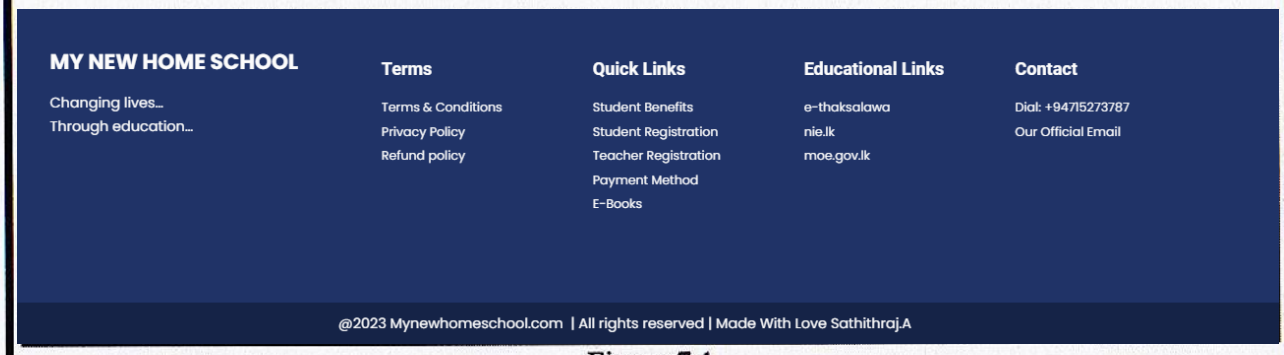

Figure 7.1
Footer of the website

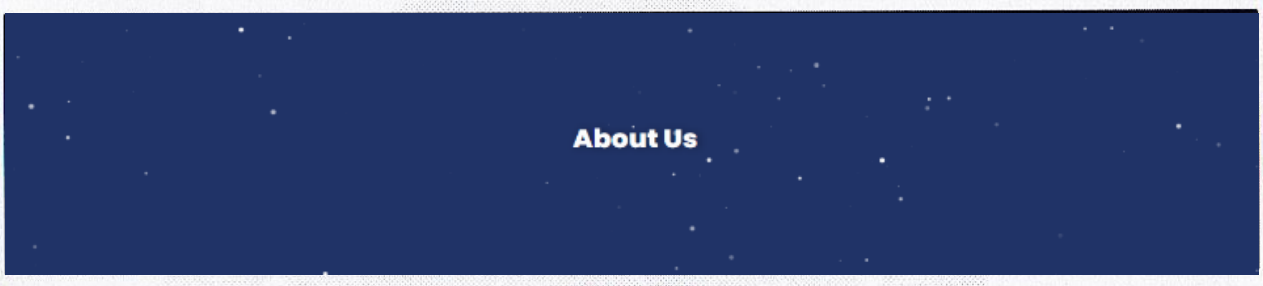

Figure 7.2
Sub-hero Section of About us page

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

.....
SIGNATURE

Dr. Karthnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (08) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …26…/…08…/…2023…..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/08/21	• Inserted About us Description into abouts us page and added margin in the bottom of the container. Created another page called "mission-vision" Copied the same hero section of about us page and then changed the title of the hero section. • Added Contents into vision and mission page. • Created another page called "motivational programme" and copied the same hero section from vision and mission page. And then changed the title. • Inserted Suitable Video from YouTube into that page. • I have taken backup of whole website.
Tuesday	2023/08/22	• Created a health improvement page and inserted video from YouTube into this page. • Created New Menu Link Called "Parents Control". Created another page called parental control. Under this parents control, I have added this parental control page as sub menu. • Added Suitable Video from YouTube Inside this webpage. • Created another page called parental Motivation and added this page as the submenu of parents care menu. • Created Registration Page and copied same hero section from about us page and changed the title of the page.
Wednesday	2023/08/23	• Created two column section into that page. In the first column, I have added suitable image. • In the second column, I have inserted the instructions for the registration. • Created a button in the bottom of the second column. Changed the button's font colour, background colour, and border colour. • Added the hover effect of the button. • Installed WPForm Plugin to design the form. • Taken backup of the website and database.
Thursday	2023/08/24	• Created Application Form Using WPForm & Attached the form into webpage. • Done SMTP Setup and Linked API with WordPress Settings. • Tested live email function. • Created Teacher Registration Page And copied hero section from Student Registration page. • Changed the title of hero section. • Created New Multi Stepped Form Using WPForm plugins to do the Teacher Registration. • Attached this form into webpage.
Friday	2023/08/25	• Created Payment info page and added Payment Description and Payment method button. • Created Payment method page and Added Manual Payment Details. • Created Contact Us Page and added contact form and Google Map
Satur day	2023/08/26	Weekend Holiday
Sunday	2023/08/27	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

During Week 8 of my internship, I focused on significant developments and enhancements to the website. I began by inserting a detailed "About Us" description on the respective webpage, and to improve visual aesthetics, I added margin at the bottom of the container. Another page, "Mission-Vision," was created, and I copied the hero section from the "About Us" page, customizing the title accordingly. Subsequently, I added content to the "Vision and Mission" page. To diversify content, I introduced a "Motivational Programme" page, copying the hero section and embedding a suitable video from YouTube.

Ensuring data security and integrity, I took a comprehensive backup of the entire website. I expanded the website's content by creating a "Health Improvement" page, featuring a video from YouTube to provide valuable information. I introduced a new menu link, "Parents Control," and created a "Parental Control" page under it, embedding a suitable YouTube video. Additionally, a "Parental Motivation" page was created as a submenu under "Parents Care."

To streamline user registration, I developed a "Registration" page with a hero section inspired by the "About Us" page. A two-column layout was implemented, featuring a suitable image in the first column and registration instructions in the second. A styled button with a hover effect was added, and the WPForm plugin was installed to design a user-friendly form. Thorough testing was conducted, including the setup of SMTP and API linking, ensuring the live email function worked seamlessly.

In parallel, a "Teacher Registration" page was introduced, copying the hero section from the "Student Registration" page and adjusting the title. A multi-stepped form was created for teacher registration using the WPForm plugin. Furthermore, I created a "Payment Info" page, incorporating payment descriptions and a payment method button. A dedicated "Payment Method" page was added, featuring manual payment details.

The week concluded with the development of a "Contact Us" page, integrating a contact form and Google Map for enhanced user interaction. Overall, the week was marked by substantial progress in expanding website content, optimizing user interfaces, and implementing robust features for user registration and engagement.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

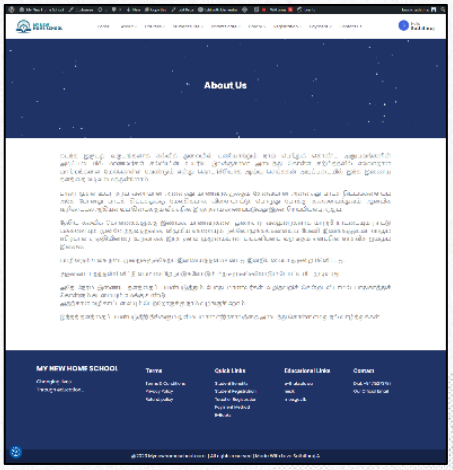

Figure 8.1
About us page

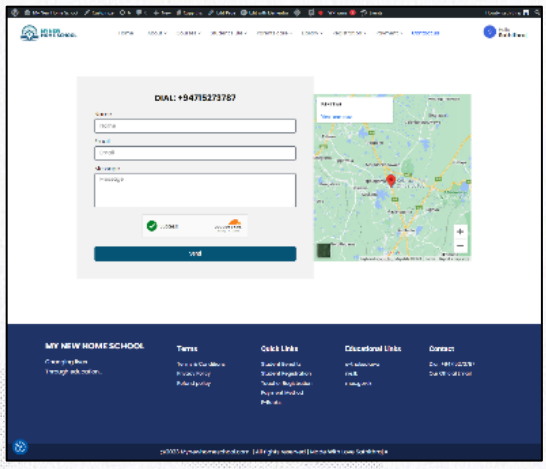

Figure 8.2
Contact form with Location Map

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REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

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SIGNATURE

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa

WEEK NO :…… (09) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …03…/…09…/…2023…..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/08/28	• Customized Login Page and Signup Page using Tutor LMS Plugin. • Updated Latest Version of WordPress Theme and Elementor Plugin. • Customized Course Page Using Tutor LMS Pro Settings. • Customized Quiz Submission Settings as Auto Submit Mode. • Setup Final Grade Calculation Method as Average Grade in Tutor LMS Pro Settings. • Setup Course Monetization Settings with WooCommerce. • Taken Backup of the Website and Database in Web Server.
Tuesday	2023/08/29	• Setup Revenue Option for Admin and Instructor in Tutor LMS Pro Settings. • Enabled Additional Fee Option and Inserted 5% Maintenance Fee from Revenue. • Setup Minimum Withdrawal Amount and Withdrawal Method. • Setup Course filter option and course sorting option. • Designed Certificate for course. • Restricted and Hided Admin Bar and access for Instructor. • Setup GPA Scale Limit in Gradebook option in Tutor LMS Pro Settings.
Wednesday	2023/08/30	• Created Email Template and completed email configuration. • Enabled Email Functions for Students, Instructors and admin user with custom notification. • Enabled Multifactor Two Factor Authentication for Admin Login. • Enabled Fraud Detection using Google reCAPTCHA V3. • Created reCAPTCHA V3 and Linked API with Website. • Limited Login Session and changed maximum active session as 1.
Thursday	2023/08/31	• Enabled Cookie Notice on website. • Done the setup of SEO using Yoast SEO Plugin. • Installed Google Analytics Plugin and Google Sitekit plugin. • Linked LMS Website with Google Analytics and linked API withit. • Linked Website with Google Search Console and Tested in Live Mode. • Taken Backup of LMS Website with the help of All-in-One Migration Plugin.
Friday	2023/09/1	• Done Troubleshoot PC in IT Lab. • Generated Terms and Conditions for Mynewhomeschool.com website. • Generated Privacy Policy for Mynewhomeschool.com website. • Generated Refund Policy for Mynewhomeschool.com website. • Tested Mynewhomeschool.com website and hand overed to the client.
Saturday	2023/09/02	Weekend Holiday
Sunday	2023/09/03	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

During this week of my internship, I undertook a variety of tasks to enhance the functionality and user experience of the educational platform. I began by customizing the login and signup pages using the Tutor LMS Plugin, providing a personalized touch to the user interface. Additionally, I ensured that the WordPress theme and Elementor Plugin were updated to their latest versions for optimal performance.

To improve the overall course management system, I customized the course page using Tutor LMS Pro Settings and set up quiz submission settings with an auto-submit mode. The final grade calculation method was adjusted to an average grade, contributing to a fair evaluation process. Moreover, I integrated course monetization settings with WooCommerce and established a revenue option for both administrators and instructors.

Ensuring the security and smooth operation of the website, I implemented various measures. These included taking regular backups of the website and database on the web server, enabling multifactor two-factor authentication for admin login, and deploying fraud detection through Google reCAPTCHA V3.

To enhance the user experience, I customized course filter and sorting options, designed certificates for courses, and restricted access to the admin bar for instructors. I also configured GPA scale limits in the Gradebook option in Tutor LMS Pro Settings.

In terms of communication and notifications, I created an email template and configured email settings for students, instructors, and admin users. I further enabled cookie notice on the website to comply with privacy regulations.

For SEO optimization, I successfully set up SEO using the Yoast SEO Plugin and installed Google Analytics and Google Sitekit plugins. I linked the LMS website with Google Analytics and Google Search Console, conducting live tests to ensure seamless integration.

To ensure the integrity and security of the website, I limited login sessions, changed the maximum active session to 1, and enabled additional security measures such as a backup using the All-in-One Migration Plugin.

In the final stages of the week, I generated essential legal documents, including Terms and Conditions, Privacy Policy, and Refund Policy for the Mynewhomeschool.com website. After comprehensive testing, I successfully handed over the completed website to the client, marking the successful completion of this week's tasks.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

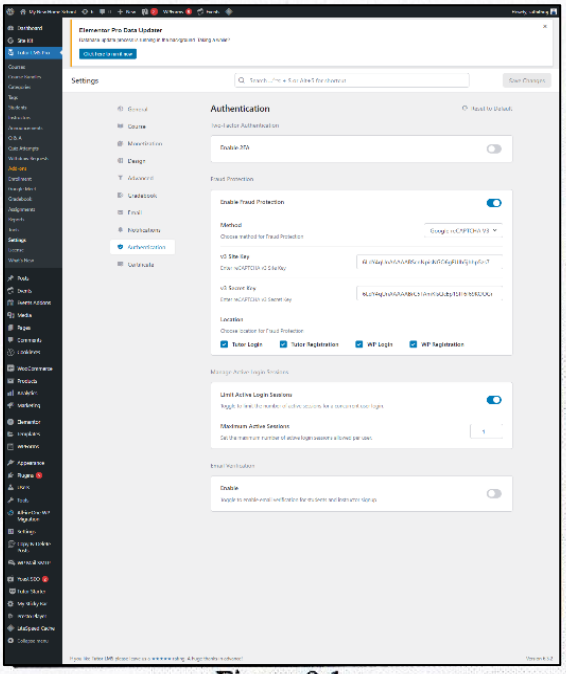

Figure 9.1
Dashboard of Tutor LMS Pro Plugin

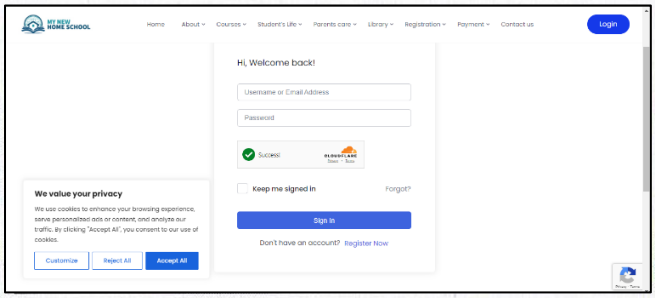

Figure 9.2
Login Page

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

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SIGNATURE

WEEK NO :…… (10) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …10…/…09…/…2023….	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/09/04	• Designed Poster for Orientation Programme of New Batch – ATI Batticaloa. • Updated Themes and Plugins in Mynewhomeschool Website. • Learnt Laravel and Technologies. • Collaborated with Students to setup Auto Door System using Arduino. • Discussed with Director about upcoming projects. • Taken order from Another Institute called KV College.
Tuesday	2023/09/05	• Discussed with Client and our Director about the System. • Collected their functional and nonfunctional requirements. • Planned to develop new Desktop Application for an Institute using Java Swing Framework and MySQL Database. • Drawn ER Diagram for proposed System and Derived Conceptual Schema from ER Diagram. • Checked the ER Diagram and their functionality with clients.
Wednesday	2023/09/06	• Started to Develop Proposed system and Downloaded Required Jar File from Internet. • Created New Project in NetbeansIDE and Created New Package Called "LoginOrRegister" • Created New jPanel and made this panel as Rounder Corner and Gradient Colour. • Created New Register.java to design Registration Page. • Successfully Designed UI for Registration Window Form. • Created New Package Called "dbOperation" and created new class inside this package called "ConnectionProvider.java"
Thursday	2023/09/07	• Continued working on Register Page of Proposed System. • Created database connection in ConnectionProvider Class. And tested the function of this class. • Created validateField method to validate form data. And connected this method with the register button. • Tested form validation with Valid and Invalid inputs. • Downloaded and imported Java MySQL JDBC Connector into project. • Wrote Code to save form data into Database table and tested with demo data.
Friday	2023/09/8	• Rechecked previous code of registration form. • Created New Java Class to Generate OTP Code for confirm the details of registration. • Wrote Java Code and SQL Query to store OTP in database. • Created OTP Verify jPanel and Wrote code for the data validation. • Wrote Code to get otp code from database and check the given otp with original otp. • Created Login jPanel and designed the panel using custom Java Code. • Wrote Java Code for Data validation and Check the user data from Database.
Saturday	2023/09/09	Weekend Holiday
Sunday	2023/09/10	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

Throughout this week, I engaged in a diverse set of activities, contributing to the development and enhancement of various projects. In the realm of creative design, I crafted an eye-catching poster for the Orientation Programme of the new batch at ATI Batticaloa, showcasing my skills in visual communication.

For the ongoing project at Mynewhomeschool website, I diligently updated themes and plugins, ensuring the platform stays current and optimized for performance. In terms of skill development, I dedicated time to learning Laravel and associated technologies, broadening my knowledge base and keeping pace with industry trends.

In a collaborative effort with students, I participated in setting up an Auto Door System using Arduino, combining practical application with technological innovation. Furthering my involvement in project discussions, I met with the Director to deliberate on upcoming initiatives and secured an order from another institute, KV College.

In a pivotal step towards a new desktop application, I engaged in comprehensive planning for an Institute's system using Java Swing Framework and MySQL Database. This included drawing an ER Diagram for the proposed system, deriving a conceptual schema, and discussing functional and nonfunctional requirements with clients and the Director.

Transitioning into the development phase, I initiated the creation of the proposed system in NetbeansIDE, establishing packages and designing UI elements. Notably, I successfully designed the Registration Window Form, implemented database connections, and validated form data using Java code.

Continuing the development process, I imported the Java MySQL JDBC Connector, wrote code to save form data into the database, and ensured effective form validation. Addressing security concerns, I created a Java class to generate OTP codes for confirming registration details and implemented OTP verification mechanisms.

Expanding the functionality, I designed and implemented the login panel, incorporating custom Java code for data validation and user verification against the database. Throughout this process, I consistently tested and refined the code to ensure the smooth operation of the proposed system.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

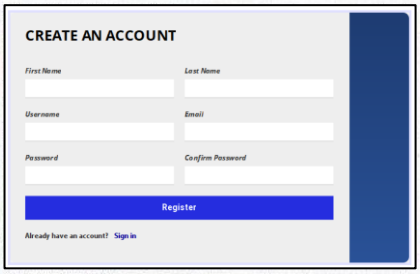

Figure 10.1

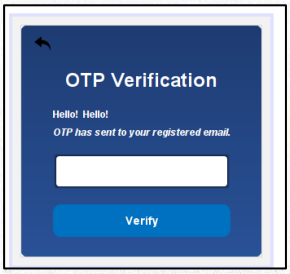

Figure 10.2

Figure 10.3

Figure 10.4

Figure 10.5

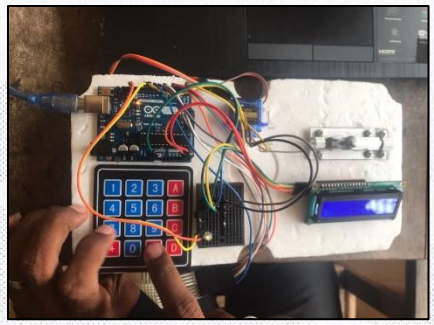

Figure 10.6

Figure 10.1 → Registration Panel
Figure 10.2 → OTP Verification Panel
Figure 10.3 → Login Panel
Figure 10.4 → Invitation Front Page
Figure 10.5 → Invitation Pack Side
Figure 10.6 → Arduino Project

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

.....
SIGNATURE

WEEK NO :…… (11) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …17…/…09…/…2023…..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/09/11	• Continued working progress on Institute Management System. • Created New jFrame Called "Main" to show the dashboard of the system. • Created another two more jFrame to display the dynamic content of the window and show the navigation menu of the system. • Downloaded and imported required icons from internet. • Created Close, Resize, Minimizing button on the Main Window form. • Wrote code for Dashboard Panel in the Main Window and set this as default. • Created New jframe called "Menu" and inserted menus into the system.
Tuesday	2023/09/12	• Added Hover effect to the menu items. • Created jPanelLoader class and Wrote custom java code. • Created new jframe called Studentpanel to display student registration form and student details. • Inserted jlabel on the top of the panel to get student registration no. • Created buttons of update, register and clear functions and made all the sizes as same. • Wrote Code for Data validation of all fields and checked the validation with demo data.
Wednesday	2023/09/13	• Downloaded and imported table jar file from the internet. • Wrote Action for Register Button and Collected all the user data through form fields. • Wrote code for Save the data into Database and checked their functions with dummy data. • Wrote code for send student index no to their email. • Checked email functions with my email address. • Wrote code for clear button and checked the functions of clear button. • Wrote code for update button and checked the functions of system.
Thursday	2023/09/14	• Added Search button and changed the style as icon. • Added the function to get the student details of given index no. • Checked data validation of the text field. • Display derived data in the form field as editable format. • Wrote Code for Delete button and checked the functions by deleting some data. • Wrote Code for display error message when user tries to enter invalid index no.
Friday	2023/09/15	• Created Table and display all the available data from Database. • Styled typography and colour of table data and table row. • Wrote custom code to reload table content and inserted this method in update, delete, insert function. • Created custom scrollbar using custom java code.a nd connected this scrollbar with the student table. • Created new method inside this class to get arrears amount from the database.
Satur day	2023/09/16	Weekend Holiday
Sunday	2023/09/17	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week, my focus remained on the ongoing development of the Institute Management System. To enhance the user interface, I created a new jFrame named "Main" to serve as the system's dashboard. Two additional jFrames were designed to display dynamic content and the navigation menu, contributing to a seamless user experience. Icons necessary for the project were downloaded and imported, and functionalities such as Close, Resize, and Minimize buttons were implemented on the Main Window form.

In the process of building the dashboard panel, I wrote code for its functionalities and set it as the default view. A new jFrame called "Menu" was created to incorporate menus into the system, with added hover effects to enhance interactivity. The jPanelLoader class was developed, featuring custom Java code for smoother navigation.

Further, a specific jFrame named "Studentpanel" was introduced to manage student registration forms and details. This included the addition of a JLabel for student registration numbers and buttons for update, register, and clear functions. I implemented comprehensive data validation for all fields and verified their effectiveness with demo data.

To optimize data management, I downloaded and imported a table jar file from the internet. Action for the Register button was coded to collect user data and save it into the database, with additional code for sending student index numbers to their respective email addresses. The functionality of the clear and update buttons was implemented and thoroughly tested.

For improved user interaction, I added a search button with an icon-style design and ensured data validation of the text field. The system now displays derived data in an editable format and provides error messages for invalid entries. A table was created to showcase all available data from the database, with customized typography and color for enhanced readability.

Implementing dynamic updates, I crafted custom code to reload table content and connected this method to the update, delete, and insert functions. To improve the overall visual appeal, a custom scrollbar was created and linked to the student table. Additionally, a new method was added to retrieve arrears amount from the database, further enriching the system's functionality.

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SIGNATURE OF TRAINEE

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

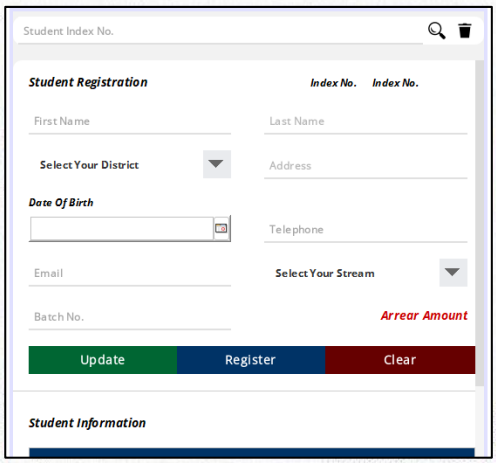

Figure 11.1
Student Registration Form

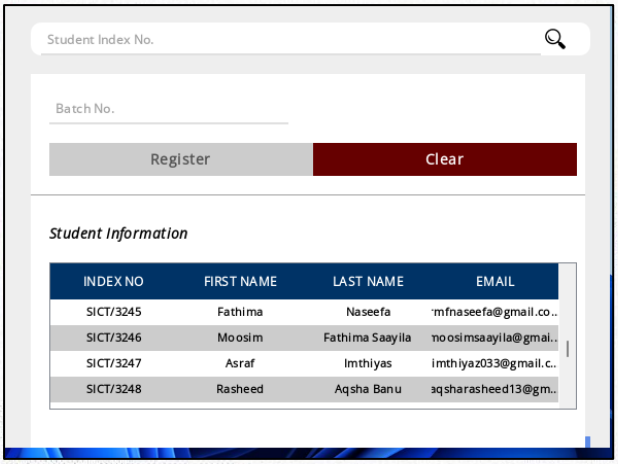

Figure 11.2
Student Table with All Students

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SIGNATURE OF TRAINEE

REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

.....
SIGNATURE

Sivarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa

WEEK NO :…… (12) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …24…/…09…/…2023…..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/09/18	• Continued working on Institute Management System. • Learnt Some code from YouTube and Stack overflow. • Wrote function to call and load student panel in the main panel. • Pushed project codes into my github account. • Provided the system to client and got the feedback of student module. • Discussed and got some ideas for the Teacher Module. • Troubleshoot one computer's Operating system problem in the IT Lab.
Tuesday	2023/09/19	• Created teacherpanel to insert, update, delete teacher's information. • Added Subpanel inside the teacher panel and created teacher registration window form. • Wrote code for data validation and checked all the field functions with dummy data. • Created update, register, clear button with same size. • Wrote code to get the last inserted id and increase the id by one. • Wrote code for inserting form data into Database and checked the functions with demo data. • Wrote code for clear all field data from the window.
Wednesday	2023/09/20	• Wrote a method to load teacher's data of the given teacher id. • Wrote function to display teacher's information into the related form fields. • Wrote code for update the teacher and tested updating function with existing teacher data. • Wrote code for deleting the teacher from the system. • Create another jpanel to show teacher's information. • Inserted table into the jpanel and fetched all the teacher's data from database. • Customized table's typography, row colour and style of the teacher table.
Thursday	2023/09/21	• Wrote function to call and load teacher panel in the main panel. • Created another jpanel called subjectpanel to display subject related data. • Designed UI of Subject Module using Java Swing and Components. • Fetched last inserted subject code from database. • Inserted update, register, clear button and resized them as same size. • Created subject registration section and Wrote code to add subject into the table.
Friday	2023/09/22	• Wrote code for update the course details and tested with existing value. • Wrote code for clear all the values of text fields related to subject form. • Created subject table and customized the design of the table and changed the typography. • Wrote a method to fetch all data from Database and display the details in the subject table. • Created another panel inside the subject panel to register student and teachers to the subjects. • Inserted dropdown menu into newly created panel. Display static course name as demo data.
Saturday	2023/09/23	Weekend Holiday
Sunday	2023/09/24	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week was marked by continued dedication to the development of the Institute Management System, showcasing progress across various modules and incorporating valuable feedback from the client. As part of ongoing learning, I actively sought solutions and acquired new coding skills from YouTube and Stack Overflow.

I successfully loaded the student panel into the main panel, enhancing the system's functionality. To foster collaboration and version control, I pushed the project codes to my GitHub account, ensuring organized and accessible code management.

Client engagement played a crucial role this week, as I provided the client with the system and received constructive feedback on the student module. This feedback was instrumental in refining the system and aligning it more closely with user expectations. Discussions with the client also sparked ideas for the Teacher Module, setting the stage for future developments.

In troubleshooting IT-related issues, I successfully resolved operating system problems on a computer in the IT Lab, showcasing my problem-solving skills.

The Teacher Module took shape with the creation of the teacher panel, allowing for the insertion, updating, and deletion of teacher information. Robust data validation was implemented, ensuring the reliability of the system. I wrote code to handle the generation of unique IDs, insertion of data into the database, and clearing of form fields. The update and delete functionalities were rigorously tested, ensuring seamless system operation.

Furthermore, I designed and implemented a panel to display teacher information through a customized table. Typography, row color, and style were meticulously tailored for an enhanced user interface. A similar approach was taken with the Subject Module, where I designed the UI and added functionalities for subject registration, updating, and data retrieval from the database.

Creating a panel to register students and teachers to subjects, I added a dropdown menu with static course names as demo data. This feature laid the foundation for future expansions within the Subject Module.

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SIGNATURE OF TRAINEE

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

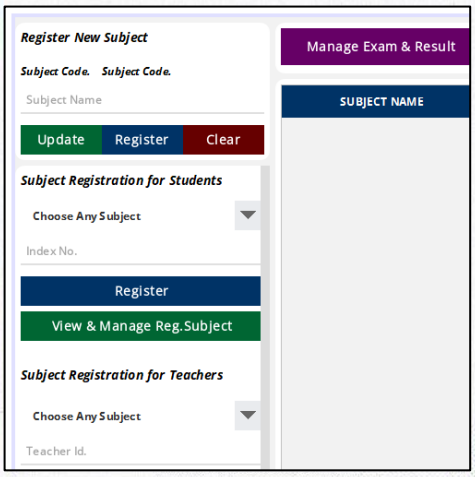

Figure 12.1
Subject Registration Window

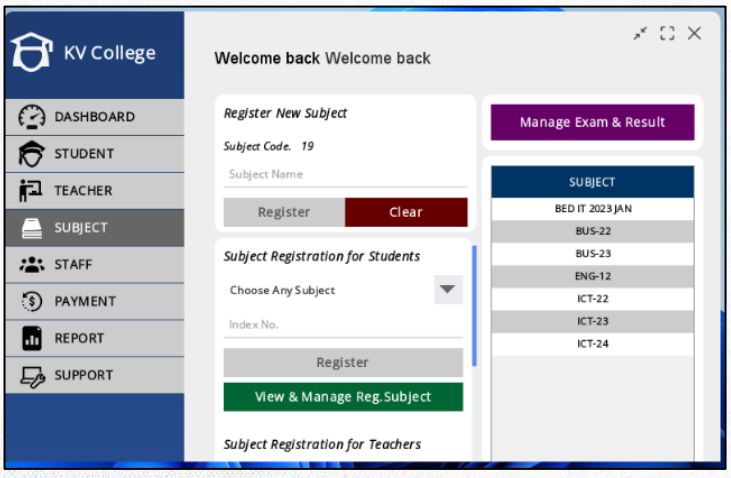

Figure 12.2
Subject Table with Dashboard view

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Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa

WEEK NO :…… (13) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …….01…/…10…./…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/09/25	• Continued working on Institute Management System. • Reviewed previous code of Institute Management System. • Wrote a method to fetch subject data from database and displayed all subject name in the dropdown menu. • Inserted two buttons called "Register" and "View and Manage reg.subject". • Wrote new method to validate student indexno with the use of database data. • Wrote another validation to check whether the student is already registered or not and added prior SQL Query to do this.
Tuesday	2023/09/26	• Continued working on Subject Registration Window Form. • Wrote Code to register students for the specific course. • Wrote another method to clear form data automatically when a registration is successful. • Create another jFrame Form to view selected course of students or remove student from a specific course. • Designed UI of ManageStudentSubjectPanel. • Wrote code for validation of index no and checked the validation. • Created new table and customized the table design as previous table design.
Wednesday	2023/09/27	• Displayed all the registered course into the table by fetching data from database. • Wrote a method to delete selected course by clicking on table row. • Inserted another dropdown into the previous panel to register a teacher for a specific course. • Fetched subject name from database and displayed subject name into the dropdown menu. • Wrote a method to validate teacher id. • Wrote code to register a teacher for a specific subject and tested with demo data. • Created another jframe form to view Assigned course to the teacher. • Designed UI of ManageTeacherSubjectPanel. • Wrote code to fetch data of "assigned course for teachers" from database and displayed those details into table.
Thursday	2023/09/28	Public Holiday
Friday	2023/09/29	Public Holiday
Satur day	2023/09/30	Weekend Holiday
Sunday	2023/10/01	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week was marked by continued dedication to the refinement and expansion of the Institute Management System. In a thorough review of the previous code, I ensured the robustness of the existing system and identified areas for further improvement.

Significant progress was made in the Subject Module. I implemented a method to fetch subject data from the database, displaying all subject names in a dropdown menu for enhanced user interaction. The Subject Registration Window Form saw continuous development, with the addition of buttons for registration and managing registered subjects. Rigorous validation methods were introduced to ensure the accuracy of student index numbers and to verify if a student is already registered, utilizing SQL queries for efficient data checking.

Code for subject registration was written, allowing students to be registered for specific courses. Furthermore, a method was implemented to automatically clear form data upon successful registration, streamlining the user experience.

The development extended to the creation of a new JFrame Form, ManageStudentSubjectPanel, designed for viewing selected courses of students and removing students from specific courses. The UI was carefully crafted, and data validation for index numbers was implemented. A new table was created with customized design elements, displaying all registered courses by fetching data from the database. A method to delete selected courses from the table was also coded.

To further enhance the system's functionality, an additional dropdown menu was inserted into the panel for registering teachers for specific courses. Subject names were fetched from the database and displayed in the dropdown menu. A method for teacher ID validation was implemented, and code to register teachers for specific subjects was written and tested using demo data.

The expansion of the system continued with the creation of another JFrame Form, ManageTeacherSubjectPanel, designed for viewing assigned courses for teachers. The UI was thoughtfully designed, and code was written to fetch data on assigned courses for teachers from the database, presenting the details in a table for easy reference.

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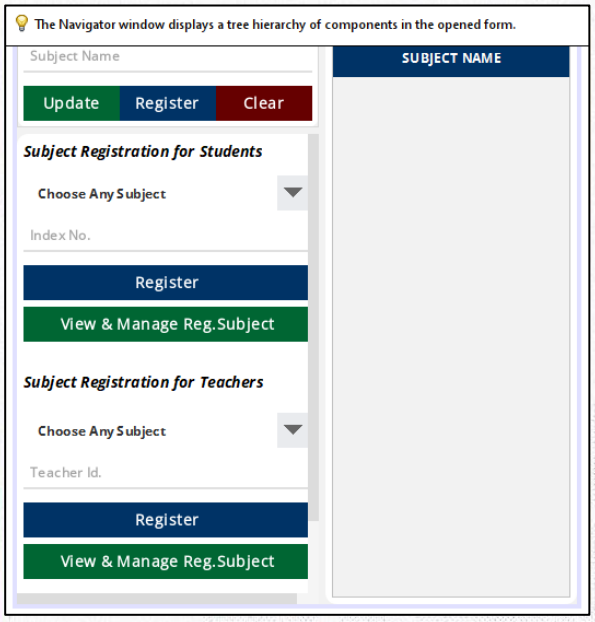

Figure 13.1

The window for register student to the subject and subject table

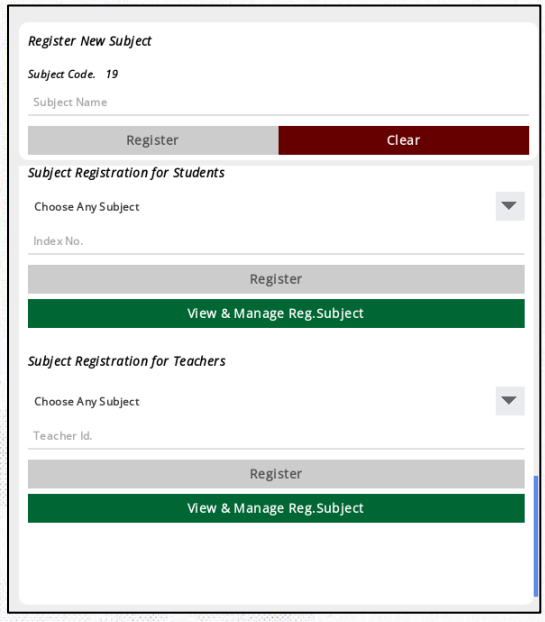

Figure 13.2

Subject Registration form for Student and Teachers

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Sivasubramanam Jeyapalan
Director
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WEEK NO :…… (14) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …08…/…10…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/10/02	• Continued Working on Institute Management System Project. • Reviewed All previous code and tested codes and functionality in the environment. • Created New jFrame called "manageExam" • Created a jpanel to register new exams into the system. • Wrote code to fetch data from table and displayed subject name into dropdown menu. • Added Data Validation to textfields and Wrote code to save exam details into table. • Created another jpanel inside to manage exam jframe to add student's exam marks. • Validated all data fields by adding custom java code.
Tuesday	2023/10/03	• Wrote a method to fetch student's index no to validate index no field. • Wrote code to fetch examid from exam table, and displayed examid into dropdown. • Wrote code to save student's marks into marks table and validated textfields. • Created another jpanel to update marks and delete marks from table. • Wrote code to update student's marks when clicking on update button. • Wrote code to Delete student's marks when clicking on Delete button. • Wrote code to clear textfield data.
Wednesday	2023/10/04	• Taken revision lectures to 2nd Year HNDIT Students (Java OOP) • Taken Lectures to 1st Year HNDIIT Students (Visual Programming) • Designed Poster using Adobe illustrator. • Had a meeting with the Director of ATI related to working progress of Institute Management System. • Updated theme and plugins in Mynewhomeschool.com website.
Thursday	2023/10/05	• Replaced hard disk with Nvme SSD of HOD's Laptop. • Installed Operating System and Drivers to that Laptop. • Installed Required Application Software and Antivirus to that Laptop. • Learnt about Jasper Report Java in YouTube • Downloaded and installed Jasper Report Jar Files from Internet
Friday	2023/10/06	• Fixed Server Down Problem in IT Lab. • Installed UPS into IT Lab. • Entered Student Registration Details into Official SLIATE Website. • Discussed about Report Generation of Institute Management System.
Saturday	2023/10/07	Weekend Holiday
Sunday	2023/10/08	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week was marked by continuous efforts on the Institute Management System project, where I conducted a comprehensive review of all previous code and rigorously tested functionalities within the development environment to ensure their robustness.

The project expanded with the creation of a new JFrame called "manageExam." Within this frame, I designed a JPanel to register new exams into the system. The code was written to fetch data from the table and display subject names in a dropdown menu. Data validation was added to text fields, and code was implemented to save exam details into the table.

A new JPanel was created inside the manageExam JFrame to manage student exam marks. I validated all data fields with custom Java code, implemented a method to fetch student index numbers for validation, and wrote code to fetch exam IDs from the exam table. Exam IDs were displayed in a dropdown menu, and the code was developed to save student marks into the marks table while validating text fields.

Another JPanel was created to update and delete marks from the table. Code was written to update student marks upon clicking the update button, delete marks upon clicking the delete button, and clear text field data.

In addition to project work, I took revision lectures for 2nd Year HNDIT students on Java OOP and delivered lectures to 1st Year HNDIIT students on Visual Programming. I also utilized my design skills by creating a poster using Adobe Illustrator.

Project-related discussions were held in a meeting with the Director of ATI, where progress on the Institute Management System was reviewed. Further technical tasks included updating themes and plugins on the Mynewhomeschool.com website, replacing the hard disk with an Nvme SSD in the HOD's laptop, and installing the operating system, drivers, and necessary applications.

Expanding my skill set, I explored Jasper Report Java through online tutorials and installed Jasper Report JAR files. Technical issues in the IT lab were addressed by fixing a server-down problem and installing a UPS for uninterrupted power supply.

Administrative responsibilities included entering student registration details into the official SLIATE website, contributing to the overall record-keeping process. Finally, discussions were initiated regarding the report generation aspect of the Institute Management System.

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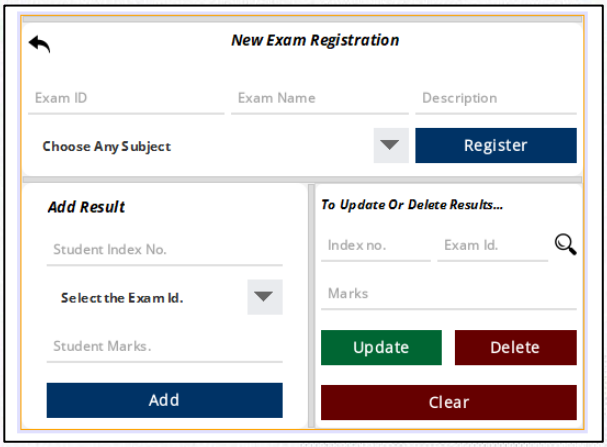

Figure 14.1
Exam Registration Window

Figure 14.2
Taking DBMS Lecture

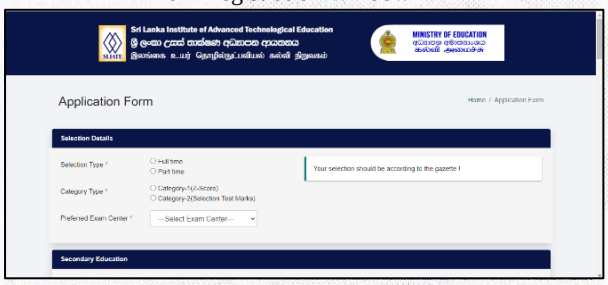

Figure 14.3
SLIATE Online Student Registration Form

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Director
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Batticaloa.

WEEK NO :…… (15) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …15…/…10…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/10/09	• Continued Working on Institute Management System Project. • Checked All the previous code and had a look into the output. • Designed UI of Fee Management jframe • Inserted sub panel to the fee management window. • Wrote a method to get last payment id from database. • Wrote a code to generate new payment id which is unique. • Fetched subject name from subject table and displayed into dropdown menu's items.
Tuesday	2023/10/10	• Fetched Teacher id from teacher table and displayed into Dropdown menu. • Wrote a method to validate student index no. • Witten a code to save fee details into fee table and keep arrears amount if they have. • Inserted new jpanel and Wrote code to display information such as student's details, fee, arrear amount and subject's details. • Wrote a method to calculate Teachers charge and Institute charge from paid amount.
Wednesday	2023/10/11	• Designed payment receipt UI using Jasper Report plugin. • Connected Jasper report with Database. • Fetched Fee Details from Fee Table. • Displayed fee Details in the Payment Receipt. • Checked the output of receipt from existing payment id. • Changed the alignment of some field in the receipt.
Thursday	2023/10/12	• Had Meeting with client and collected feedback and changes of current developed system. • Confirmed payment receipt style from Client. • Wrote a method to link the payment receipt jasper report with payment method. • Tested functionality of Payment section by giving random data. • Inserted more submenu into Main Menu.
Friday	2023/10/13	• Linked all submenu with their related Jframe. • Installed developed system into the client's computer. • Imported Database in their computer. • Tested Software by entering some fake data into the system. • Taken Backup of Source Code. • Pushed all codes into Github.
Satur day	2023/10/14	Weekend Holiday
Sunday	2023/10/15	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week was dedicated to the continued development and refinement of the Institute Management System project. A thorough review of all previous code was conducted, ensuring its correctness and effectiveness.

The primary focus was on the Fee Management module, where I designed the UI of the Fee Management JFrame and added a sub-panel to enhance its functionality. Key functionalities included creating a method to retrieve the last payment ID from the database and generating a new unique payment ID. Subject names and teacher IDs were fetched from their respective tables and displayed in dropdown menus. I implemented a method for validating student index numbers and wrote code to save fee details into the fee table, accounting for arrears amounts if applicable.

To provide a comprehensive view, a new JPanel was added to display information such as student details, fees, arrear amounts, and subject details. A method was developed to calculate teacher charges and institute charges from the paid amount.

The payment receipt UI was designed using the Jasper Report plugin, and I successfully connected Jasper reports with the database. Fee details were fetched from the fee table and displayed in the payment receipt. I checked the output of the receipt using existing payment IDs and made adjustments to the alignment of some fields for improved aesthetics.

Client engagement was a crucial aspect of the week, as a meeting was held to collect feedback and discuss changes to the current system. The payment receipt style was confirmed with the client, and I proceeded to write a method to link the payment receipt Jasper report with the payment method. Extensive testing of the Payment section was conducted using random data.

System navigation was improved by inserting more submenus into the main menu and linking them with their related JFrames. The developed system was then installed on the client's computer, and the database was imported. Thorough testing was conducted by entering fake data into the system. A backup of the source code was taken, and all codes were pushed to GitHub for version control and collaboration.

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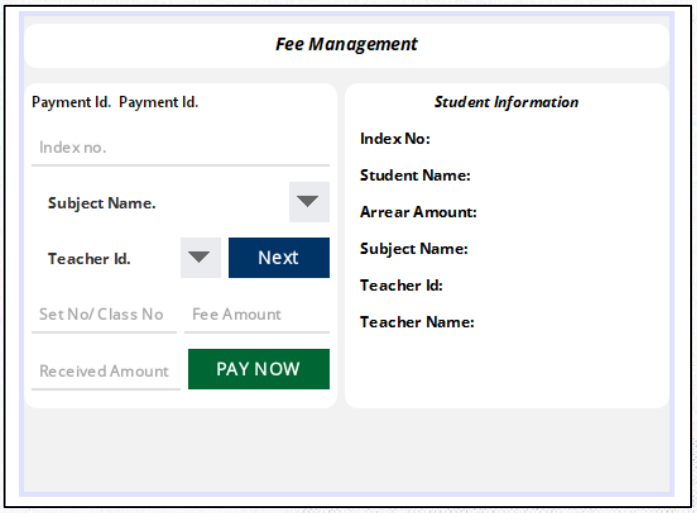

Figure 15.1
Fee Management Panel

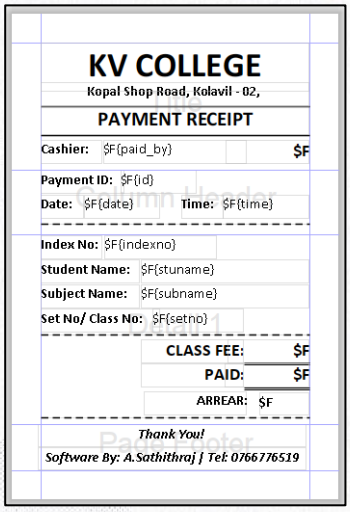

Figure 15.2
Payment Receipt

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Selvarethinam Jeyapalan
Director
Advanced Technological Institute
Batticaloa

WEEK NO :…… (16) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …22…/…10…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/10/16	• Learned Laravel from YouTube and Laracast Website. • Designed Logo for a law field using Adobe illustrator. • Created Google Sheet to Collect ATI Information from All the ATIs.
Tuesday	2023/10/17	• Created Logo for Aim Academy using Adobe Illustrator. • Taken 6 Hours Database Management System Lectures to Students and explain MySQL to them. • Taken Backup of MyNewHomeschool.com Website using All in one wp migration plugin. • Learnt E-Commerce website functionality from YouTube.
Wednesday	2023/10/18	• Entered Registration details into SLIATE official website. • Took DBMS Lectures for 2nd Year HNDIT Students. • Designed Law Related Logo using Adobe Illustrator.
Thursday	2023/10/19	• Upgraded RAM on Director's Laptop. • Learnt Laravel from YouTube. • Tried to develop CRUD Application using Laravel.
Friday	2023/10/20	• Fixed Printing Problem in Director's Room. • Taken backup of ATI Official Website and Mynewhomeschool.com • Checked the website performance and functionality of the ATI website. • Took the revision lectures for 2nd Year Students.
Saturday	2023/10/21	Weekend Holiday
Sunday	2023/10/22	Weekend Holiday

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

Throughout the week, I engaged in a multifaceted set of activities aimed at skill development and practical application in various domains. In the realm of web development, I dedicated time to learning Laravel, a prominent PHP framework, through resources like YouTube and Laracast, with the goal of expanding my expertise in web development.

Additionally, I explored the functionalities of e-commerce websites through online tutorials, enhancing my comprehension of online business platforms. Employing Adobe Illustrator, I applied my creativity to design logos for different purposes, including a law-related logo for a law field and another for Aim Academy. To foster understanding of Database Management Systems, I conducted six hours of lectures for students, elucidating MySQL principles through both theoretical concepts and practical demonstrations.

In terms of website management, I ensured data security by taking a backup of the MyNewHomeschool.com website and assessed the performance and functionality of the ATI Official Website.

Technical support efforts involved fixing a printing problem in the Director's room and upgrading the RAM on the Director's laptop to enhance its overall performance. Administrative tasks included creating a Google Sheet for streamlined data collection from various ATIs and entering registration details into the official SLIATE website. Lastly, I attempted to apply my Laravel knowledge by developing a CRUD application. This diverse range of activities reflects a comprehensive and practical approach to learning and skill application.

Figure 16.1
Law Logo

Figure 16.2
AIM Academy Logo

Figure 16.3
Laravel Logo

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Sivarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (17) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …29…/…10…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	**2023/10/23**	• Updated WordPress Themes and Plugins on MyNewHomeSchool Site. • Successfully exported the backup file. • Fixed Internet Issue in the Admin Lab. • Learned Laravel from YouTube. • Created Dummy Site using Laravel for my practice. • Uploaded a notice into ATI Official's website.
Tuesday	**2023/10/24**	• Entered Student details into SLIATE official website. • Participated on Navarathri Pooja Celebration which is celebrated by all the departments.
Wednesday	**2023/10/25**	• Reinstalled Operating System and Application Software on Assistant Registrar's Laptop. • Took 6 hours lectures for 2nd Year Students. • Uploaded Images into ATI Official Website. • Created New Gallery on ATI Official Website.
Thursday	**2023/10/26**	• Renewed Webserver and Domain Name which is provided by Lankahost. • Fixed the Network issue on Assistant Registrar's Desktop PC. • Installed Nvme SSD into another lecturer's laptop. • Installed Operating System and Application Software into that website.
Friday	**2023/10/27**	• Created File Cover page using Adobe Illustrator Software. • Discuss with Admin Office Staff about their needs. • Observed and checked all their manual works and took note about that. • Collected their full functionalities and Designed Database Sketch to the new system. • Analyzed all their requirements and chose Laravel to Develop the System.
Saturday	**2023/10/28**	**Weekend Holiday**
Sunday	**2023/10/29**	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

Over the course of this week, my internship was marked by a diverse range of tasks and accomplishments. In the realm of web development, I diligently updated WordPress themes and plugins on the MyNewHomeSchool site, ensuring its optimal functionality. I also successfully exported a backup file, adding an extra layer of security to the website. Additionally, I addressed technical challenges by fixing an internet issue in the Admin Lab.

In my pursuit of continuous learning, I delved into Laravel, a PHP framework, through online tutorials on YouTube. To apply and reinforce my newfound knowledge, I created a dummy site using Laravel for hands-on practice. On the administrative front, I uploaded a notice to the ATI Official website and entered student details into the SLIATE official website. Furthermore, I actively participated in the Navarathri Pooja Celebration, fostering a sense of unity and camaraderie among various departments.

Technical responsibilities included reinstalling the operating system and application software on the Assistant Registrar's laptop, resolving network issues on another desktop PC, and installing an NVMe SSD into a lecturer's laptop. I also conducted an extensive 6-hour lecture for 2nd-year students, sharing valuable insights and knowledge. Web development tasks involved uploading images, creating a new gallery, and renewing the webserver and domain name provided by Lankahost for the ATI Official website.

Diversifying my responsibilities, I employed Adobe Illustrator software to craft a file cover page and engaged in insightful discussions with the Admin Office Staff to understand their specific needs. Through careful observation, I documented and analyzed their manual processes, culminating in the design of a comprehensive database sketch for the proposed new system. In response to their requirements, I opted for Laravel as the development framework, setting the stage for the upcoming phases of system development. Overall, the week was characterized by a dynamic blend of technical skill application, continuous learning, and collaborative contributions to various projects.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

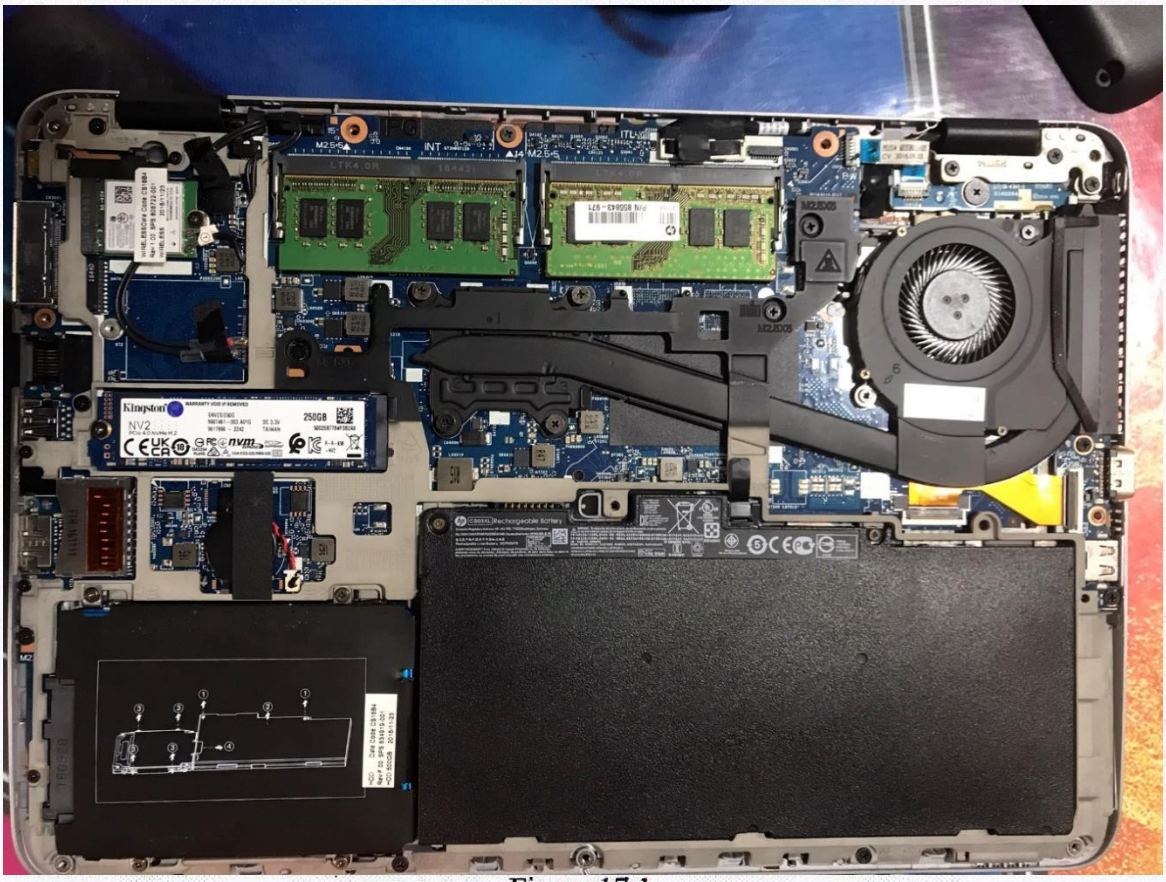

Figure 17.1
Nvme SSD Replacement

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Director
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Batticaloa.

WEEK NO :…… (18) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …05…/…11…/…2023…..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/10/30	• I Listed all the required data to be inserted into the database. • Identified Tables and Relational Database keys. • Created database sketch using https://app.dbdesigner.net website. • Repaired printing issue in the photocopier.
Tuesday	2023/10/31	• Searched and found an Admin dashboard Theme for the proposed System. • Deeply analyzed the source code of admin dashboard template. • Fragmented dashboard theme into the source folder. • Installed Laravel in the source folder. • Installed Laravel Breeze package for authentication purposes.
Wednesday	2023/11/01	• Installed Middleware package for multiuser authentication purpose. • Identified the user role and their properties. • Created Admin Dashboard Section. • Designed Admin profile page in Laravel blade engine. • Created function for display the admin information in the profile page. • Created destroy method, edit method to the admin user
Thursday	2023/11/02	• Created Academic Menu in the sidebar. • Created a method to add Academic Year and Description. • Added Data Validation to the form fields. • Created a new method to display the academic year. • Created another method to edit and delete the academic year. • Created New Menu called Course in the Sidebar section.
Friday	2023/11/03	• Prepared google sheet to collect student's details. • Created a new submenu called "All course" under Course Menu. • Created a function to display all the course details in the All-course page. • Created another submenu called "Add course" under the course menu. • Added data validation to the course form. • Created a function to add new courses into the system. • Created destroy method to delete the course from the database.
Saturday	2023/11/04	**Weekend Holiday**
Sunday	2023/11/05	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week's activities in my internship showcased a significant focus on database management and system development. I initiated the week by meticulously listing all required data for database insertion and identifying tables along with relational database keys. Subsequently, I created a comprehensive database sketch using the https://app.dbdesigner.net website, laying the foundation for the upcoming system.

Addressing technical issues, I successfully resolved a printing problem in the photocopier, ensuring seamless operations. In parallel, I delved into the system development phase by searching for and selecting an Admin dashboard theme for the proposed system. A detailed analysis of the source code of the chosen admin dashboard template followed, wherein I fragmented the theme into the source folder.

Moving forward with Laravel, I installed the framework in the source folder and incorporated Laravel Breeze package for authentication purposes. To facilitate multiuser authentication, I installed a Middleware package. The identification of user roles and their properties ensued, leading to the creation of the Admin Dashboard Section. Within the Laravel blade engine, I meticulously designed the admin profile page and implemented functionality to display admin information dynamically. Moreover, I crafted methods for the destruction and editing of admin user profiles.

Expanding the system's functionalities, I introduced an Academic Menu in the sidebar. Subsequently, I created methods to add academic years and descriptions, incorporating data validation for form fields. Another set of methods allowed for the display, editing, and deletion of academic years. The Course Menu was then introduced, and preparations were made using Google Sheets to collect student details. Under the Course Menu, I established a submenu called "All course" and created a function to display comprehensive course details on the designated page. Additionally, a submenu labeled "Add course" was introduced, featuring data validation for form fields, a method to add new courses into the system, and a destroy method for course deletion from the database.

This week's endeavors culminated in significant progress towards the development of a robust system, combining meticulous database planning with the implementation of key features and functionalities.

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DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

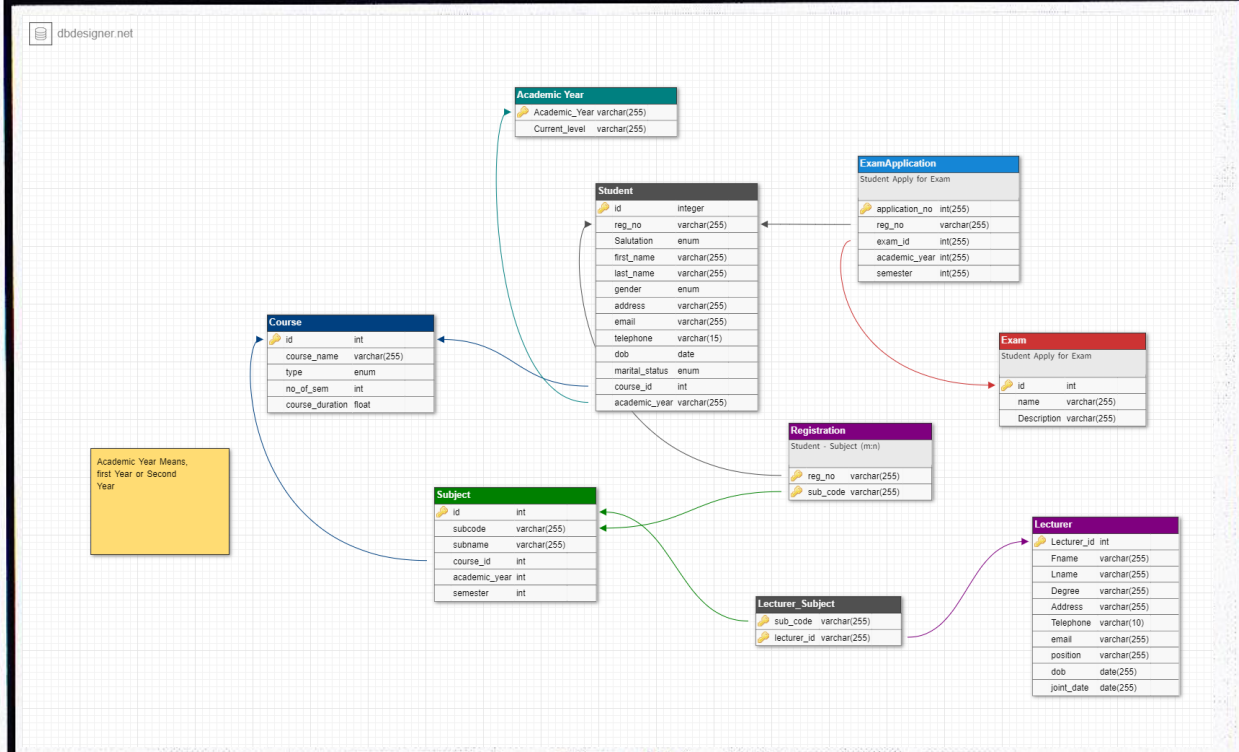

Figure 18.1
Database Sketch

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Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (19) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …12…/…11…/2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/11/06	• Created new menu called "Student" under Sidebar. • Created a new submenu called "All students" to display student's details. • Created a new method to display the student details. • Created another submenu called "Add Students, Edit Students" under Student menu. • Created a method to add students into the system. • Created another method to edit the student details.
Tuesday	2023/11/07	• fetched and displayed course name in the registration form. • fetched and displayed academic year in the registration form. • Added Data Validation to the Student Registration form. • Checked whether the data validation is working properly or not. • Created Destroy method to delete the student data. • Tested the student part with dummy data.
Wednesday	2023/11/08	• Got feedback from Administrative Staff for the student registration part. • Created new menu called "Subject" to manage all the subject details. • Created a submenu called "All subject" under the subject menu. • Created a function to display all the subject details in all subject page. • Created a submenu called "Add Subject" to add new subject into the system. • Added Data Validation to the subject form
Thursday	2023/11/09	• Created a submenu called "Edit Subject" under the subject page. • Created a function to edit the subject details. • Checked the functionality of subject menu. • Created destroy method to delete the subject from the system. • Repaired network trouble in the IT Lab.
Friday	2023/11/10	• Continued work on Management System Development. • Created a new submenu called "Course Registration" under Student menu. • Learned composite primary key implementation in Laravel. • fetched and displayed subject name in the course registration page. • Created a method to register a student for a subject. • Created a method to validate the student registration no.
Saturday	2023/11/11	**Weekend Holiday**
Sunday	2023/11/12	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week was marked by significant progress in the development of the Management System, particularly in the areas of student and subject management. I began by introducing a new menu labeled "Student" in the sidebar, accompanied by a submenu titled "All students" to display comprehensive student details. Correspondingly, methods were created to facilitate the display of student information dynamically. Further enhancing the student menu, I introduced submenus for adding and editing student details, ensuring a seamless process for system users.

The student registration process was refined by fetching and displaying course names and academic years in the registration form. Data validation protocols were implemented to ensure accuracy, with thorough testing conducted to verify the effectiveness of these measures. Additionally, a destroy method was established to enable the deletion of student data from the system. Extensive testing with dummy data was performed, and valuable feedback from Administrative Staff was incorporated to enhance the student registration section.

Expanding the system's capabilities, a new menu named "Subject" was introduced to manage all subject-related details. Submenus were created for displaying all subjects, adding new subjects, and editing existing subject details. Each of these features was complemented by robust data validation protocols. Thorough testing of the subject management functionality was conducted, and a destroy method was implemented to facilitate the removal of subjects from the system.

Technical troubleshooting was undertaken with the resolution of network issues in the IT Lab, ensuring uninterrupted system access. Work on the Management System continued with the creation of a new submenu labeled "Course Registration" under the Student menu. The intricacies of composite primary key implementation in Laravel were explored, and subject names were successfully fetched and displayed in the course registration page. Methods were crafted to register students for specific subjects, incorporating validation checks for student registration numbers.

This week's efforts reflect a substantial leap forward in the comprehensive development of the Management System, demonstrating a focus on user-friendly interfaces, robust data management, and meticulous validation processes. The incorporation of feedback and continuous learning underscore the commitment to delivering a system that meets the needs of both users and administrators.

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REMARKS AND CERTIFICATION BY THE ENGINEER / T.O

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SIGNATURE

Dr. Varethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa

WEEK NO :…… (20) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …19…/…11…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/11/13	• Checked previous code for the course registration part. • Created a method to edit the course registration details. • Created another method to remove course registration. • Created a new menu called "Lecturer" in the sidebar. • Created a submenu called "All Lecturer" under the lecturer menu. • Created a method to display all the lecturer in the lecturer page.
Tuesday	2023/11/14	• Created another two menus called "add lecturer, edit lecturer". • Created a method to add lecturer into the system. • Wrote the code to check the data validation in the lecturer form. • Created a menu called "Edit Lecturer" under Lecturer menu. • Created a method to edit lecturer details. • Created another called "destroy" to delete the lecturer from the system.
Wednesday	2023/11/15	• Created another submenu called "course registration" under lecturer. • Designed course registration form page. • fetched and displayed course name in the registration form. • Created a method to edit the course registration information. • Created another method to delete the course registration of lecturer.
Thursday	2023/11/16	**Medical Leave**
Friday	2023/11/17	• Created another menu called "Exam" in the Sidebar. • Created submenu called "All Exam" under the Exam Menu. • Created page to display the exam and wrote method to display the Exam Information. • Added Data Validation to the exam registration page. • Created another submenu called "Edit Exam" and created another method to Edit the exam information. • Created another method called "destroy" to delete the exam details.
Satur day	2023/11/18	**Weekend Holiday**
Sunday	2023/11/19	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week's focus in the ongoing development of the Management System centered around the expansion of features related to course registration, lecturer management, and the introduction of an Exam menu. Building upon previous code, I meticulously reviewed and enhanced the course registration section by creating methods for editing and removing course registration details. This ensures the system's flexibility in accommodating changes in student-course registrations.

To enrich the lecturer management functionality, a new menu titled "Lecturer" was introduced in the sidebar, accompanied by submenus for displaying all lecturers and managing lecturer details. Methods were created for adding, editing, and removing lecturers from the system. Data validation checks were implemented in the lecturer form to ensure accurate and reliable information entry. Additionally, a submenu under Lecturer for course registration was established, featuring a designed course registration form page. Course names were dynamically fetched and displayed in the registration form, and methods for editing and deleting course registration information for lecturers were implemented.

The Management System's scope was further broadened with the addition of an "Exam" menu in the sidebar. Submenus were created for displaying all exams, and methods were written to display comprehensive exam information on the designated page. To maintain data integrity, data validation protocols were added to the exam registration page. Furthermore, submenus for editing and deleting exam details were created, ensuring the system's adaptability to changes in the examination schedule.

This week's contributions reflect a comprehensive expansion of the Management System's functionalities, with a particular emphasis on course registration, lecturer management, and exam scheduling. The incorporation of data validation measures underscores the commitment to maintaining accurate and reliable information within the system. The continuous refinement of existing features and the introduction of new elements contribute to the overall robustness of the Management System.

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SIGNATURE

Selvarethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (21) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …26…/…11…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/11/20	• Created a new submenu called "Exam Application" under exam menu. • Created a page and designed exam registration form. • Fetched all the exam name and displayed into the exam registration form. • Created a new submenu called "New Exam application" and created a page to that. • Created a method to display all the exam application. • Created another submenu called edit application and created a function to edit the exam application.
Tuesday	2023/11/21	• Prepared Exam Application for the semester Examination. • Published exam timetable into the website.
Wednesday	2023/11/22	• Participated to the Staff Meeting. • Connected Office Printer with the Network and given the access to other staff. • Taken DBMS Lectures to students.
Thursday	2023/11/23	• Replaced toner to the photocopier. • Installed Media Converter Software in staff PC. • Made Online Quiz for the Second Year ICT Students. • Activated Office 2019 Professional in the Administrative staff's PC.
Friday	2023/11/24	• Prepared Poster for an Event using Adobe Illustrator Software. • Taken 4 Hours Revision Lectures to the HNDIT Students.
Saturday	2023/11/25	**Weekend Holiday**
Sunday	2023/11/26	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week's activities encompassed a diverse range of responsibilities, showcasing both contributions to the Management System development and other administrative tasks. Within the Management System, a new submenu titled "Exam Application" was introduced under the Exam menu. This expansion included the creation of a dedicated page and a well-designed exam registration form. All exam names were dynamically fetched and displayed in the registration form, facilitating a streamlined application process. Further enhancements involved the creation of submenus for displaying, editing, and managing exam applications. As part of the semester examination preparations, the exam timetable was successfully published on the website.

Beyond the Management System, active participation in the Staff Meeting provided an opportunity for collaborative discussions. Technical support tasks included connecting the office printer to the network and granting access to other staff members. Additionally, DBMS lectures were delivered to students, contributing to their understanding of database management.

On the infrastructure front, routine maintenance tasks were executed, such as replacing the toner in the photocopier and installing Media Converter Software on staff PCs. Educational initiatives involved creating an online quiz for second-year ICT students and activating Office 2019 Professional on administrative staff PCs. In a creative capacity, a poster for an event was prepared using Adobe Illustrator software.

The week concluded with an impactful 4-hour revision lecture for HNDIT students, providing them with valuable insights and reinforcing their understanding of the subject matter. Overall, the week reflected a harmonious blend of technical contributions to the Management System, proactive administrative support, and dedicated efforts in both educational and creative domains.

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SIGNATURE

Selvarathnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (22) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …03…/…12…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/11/27	• Taken Revision Lectures for HNDIT Students. • Prepared Banner for an event using Adobe Photoshop. • Checked the conditions of all the PCs in the IT Lab • Identified problems in the IT Lab.
Tuesday	2023/11/28	• Listed hardware requirements. • Prepared Request Letter with Quotation for the Hardware Components. • Checked the network connection in all staff rooms and lecture halls.
Wednesday	2023/11/29	• Participated to an Event which is conducted by the HNDE Students. • Arranged admission cards for the semester examination with other staff members.
Thursday	2023/11/30	**Medical Leave (Bacterial Conjunctivitis)**
Friday	2023/12/01	**Medical Leave (Bacterial Conjunctivitis)**
Satur day	2023/12/02	**Weekend Holiday**
Sunday	2023/12/03	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week encompassed a mix of educational activities, technical assessments, and administrative tasks. Revision lectures were conducted for HNDIT students, providing valuable insights and review of the course material. In a creative capacity, a banner for an upcoming event was prepared using Adobe Photoshop, contributing to the visual elements of the occasion.

Technical responsibilities involved a thorough inspection of all the PCs in the IT Lab, aiming to ensure their optimal functionality. Identified problems were documented for further troubleshooting and resolution. Additionally, a list of hardware requirements was compiled, and a comprehensive request letter with a quotation for the necessary hardware components was prepared, laying the groundwork for potential upgrades or replacements.

Infrastructure checks extended to network connections in staff rooms and lecture halls, ensuring a stable and reliable network environment for both staff and students.

In the realm of administration, active participation in an event organized by HNDE students was a collaborative effort, fostering engagement within the academic community. To facilitate the smooth conduct of semester examinations, efforts were directed towards arranging admission cards in coordination with other staff members.

This week's activities showcased a balance between educational support, technical assessments, and administrative preparations, reflecting a holistic approach to contributing to the overall functionality and efficiency of academic operations.

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SIGNATURE

Sri Kethiram Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (23) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …10…/…12…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/12/04	• Rearranged the Direction of all the PCs in the IT Lab. • Replaced UPS Battery for 20 System out of 45 Systems.
Tuesday	2023/12/05	• Replaced UPS Battery for balance 25 Systems. • Checked the working condition of all replaced batteries.
Wednesday	2023/12/06	• Replaced/ Upgraded RAM for 30 PCs in the IT Lab. • Reconnected Ethernet Cable with Network Switch for 20PCs.
Thursday	2023/12/07	• Replaced VGA Cable and Power cable for some PCs. • Replaced UPS Battery and CMOS Battery in the Admin Office. • Reinstalled Operating System in the Admin Office.
Friday	2023/12/08	• Reinstall Windows 10 Operating System and Device Driver Software for 15 PCs out of 50 PCs. in the IT Lab. • Created an Administrator User Account, Other 2 Guest User accounts for Students and Exam. • Provided password authentication to the Exam Account.
Saturday	2023/12/09	**Weekend Holiday**
Sunday	2023/12/10	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

This week's activities involved substantial efforts in maintaining and upgrading the IT infrastructure. In the IT Lab, a reorganization was undertaken by rearranging the direction of all PCs, optimizing the workspace for efficiency. Furthermore, a significant hardware upgrade was initiated by replacing the UPS batteries for 20 systems out of a total of 45, ensuring uninterrupted power supply.

Continuing with infrastructure enhancements, the remaining 25 systems had their UPS batteries replaced, and a comprehensive check was conducted to ensure the proper functioning of all replaced batteries. RAM upgrades were implemented for 30 PCs, contributing to improved system performance. In addition, Ethernet cables were reconnected to the network switch for 20 PCs, optimizing network connectivity.

Technical troubleshooting extended to specific PCs, involving the replacement of VGA and power cables as needed. The Admin Office received attention with the replacement of UPS and CMOS batteries, and a complete reinstallation of the operating system was performed.

In the IT Lab, a comprehensive upgrade was executed by reinstalling the Windows 10 operating system and device driver software for 15 PCs out of the total 50. User accounts were created, including an Administrator account and two Guest accounts for students and exams. Additionally, password authentication was implemented for the Exam Account, enhancing security measures.

Overall, these efforts reflect a dedicated commitment to maintaining and upgrading the IT infrastructure, ensuring the smooth operation of systems and providing an optimal environment for both staff and students.

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SIGNATURE

Sri Varethnam Jeyapalan
Director
Advanced Technological Institute
Batticaloa.

WEEK NO :…… (24) ……

FOR THE WEEK ENDING	TRAINING LOCATION
Sunday …17…/…12…/…2023……..	Advanced Technological Institute ……..

Day	Date	BRIEF DESCRIPTION OF THE WORK CARRIED OUT
Monday	2023/12/11	• Reinstall Windows 10 Operating System and Device Driver Software for 15 PCs in the IT Lab. • Created an Administrator User Account, Other 2 Guest User accounts for Students and Exam. • Provided password authentication to the Exam Account.
Tuesday	2023/12/12	• Reinstall Windows 10 Operating System and Device Driver Software for 15 PCs in the IT Lab. • Created an Administrator User Account, Other 2 Guest User accounts for Students and Exam. • Provided password authentication to the Exam Account.
Wednesday	2023/12/13	• Reinstall Windows 10 Operating System and Device Driver Software for 05 PCs in the IT Lab. • Created an Administrator User Account, Other 2 Guest User accounts for Students and Exam. • Provided password authentication to the Exam Account.
Thursday	2023/12/14	• Created Network Drive in the Server Computer. • Saved all the application software in Server PC such as MS Office, Google Chrome, VS Code, Visual Studio, Eclipse IDE, Peachtree etc. • Shared the drive with all the connected PCs with the Network. • Installed Application Software for 15 Computers.
Friday	2023/12/15	• Installed Application software for 30 Computers. • Rechecked the computer whether all the software is installed or not. • Reported the tasks and Lab Conditions to the Director of ATI, Batticaloa.
Saturday	2023/12/16	**Weekend Holiday**
Sunday	2023/12/17	**Weekend Holiday**

DETAILS AND NOTES OF WORK CARRIED OUT, PROBLEMS ENCOUNTERD AND HOW SOLVED ETC., DIMENSIONS AND SKETCHES TO BE GIVEN WHEREVER POSSIBLE

In the IT Lab, a systematic and comprehensive approach was taken to enhance the computing environment. Windows 10 operating systems and device driver software were meticulously reinstalled for each set of computers. Specifically, the process was executed for 15 PCs, creating an Administrator User Account along with two Guest User accounts dedicated to student use and exam purposes. A crucial security measure was implemented by providing password authentication for the Exam Account.

This detailed system upgrading, and user account creation process was repeated for the next batch of 15 PCs in the IT Lab, ensuring consistency and uniformity across the computing environment. Password-protected access to the Exam Account continued to be prioritized for security measures.

The same procedure was applied to the subsequent set of 5 PCs, where the Windows 10 operating system and device driver software were reinstalled. Administrator and Guest User accounts were established, with password authentication implemented for the Exam Account, maintaining a standardized and secure computing environment.

In parallel, efforts were directed toward optimizing software accessibility and centralizing resources. A network drive was created on the server computer, housing essential application software such as MS Office, Google Chrome, VS Code, Visual Studio, Eclipse IDE, and Peachtree. This drive was then shared with all connected PCs on the network. Application software installation was meticulously carried out for 15 and 30 computers, respectively. A thorough recheck ensured the presence of all required software on each computer.

To maintain transparency and communication, a comprehensive report detailing the completed tasks and the overall lab conditions was presented to the Director of ATI, Batticaloa. This structured and organized approach to IT infrastructure maintenance and software management reflects a commitment to efficiency, security, and the seamless functionality of the computing environment at ATI.

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SIGNATURE

Selvarethnam Jeyaplan
Director
Advanced Technological Institute
Batticaloa.

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INSPECTION REPORT

Inspection 01

NAME AND DESIGNATION OF OFFICER: DATE

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REMARKS:

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SIGNATURE

Inspection 02

NAME AND DESIGNATION OF OFFICER: DATE

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…….

REMARKS:

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SIGNATURE

Signature of the officer in-charge of training.
(With rubber stamp)