

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**



BSc. Information Engineering Technology

Department of Engineering Technology

Supervised Industrial Training (SIT-1)

LOGBOOK

Student Name: Mutti Ullah

Batch: Fall-21

Roll No: 022

Training Organization: Max Remind

Training Period:

Start Date: 2 September 2024 **End Date:**

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Training Organization Record

Student Name: Mutti Ullah

Batch: BSIET--21

Roll No: 022

Training Organization: MAX REMIND

Training period:

Start Date: 2 Sep 2023 **End Date:** 20 Dec 2023

Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated:

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Introduction:

This training logbook will help students to record their daily/weekly work progress during their Supervised Industrial Training as part of their degree program.

Message: Interns

This logbook will help to record your experiences and achievements on this placement. It is required to be filled in completely for graduation. Scan and email this Logbook to your academic supervisor in each Week 4 of your training. This assists the training Department to track the progress of your training. A minimum 32 weeks is required to complete this training (16 weeks in each of the two SIT parts).

Message: Host Company Representatives

Please help the Interns to complete the appropriate pages of this logbook to enable them to reflect their experiences and to have a record for us upon returning to University. Your signature on a weekly basis is required. Additional comments may optionally be added on internee's learning.

Instructions:

1. The Intern should follow the rules and regulation of the host organization.
2. The Intern should follow the dress code of the host organization.
3. The Intern should be punctual.
4. The intern should maintain the discipline of the host organization.
5. It is the duty of the intern to get the weekly work signed by the supervisor.
6. Brief description of the task(s) undertaken should be entered in the log book; details including domain, project associated, tools/technologies used, conclusion/learning should be taken separately.
7. The training log book should be signed and stamped by the industrial supervisor on the final day of the training.
8. The intern shall submit a detailed, well documented and nicely bound Training report within 1 week after the training apart from this logbook.
9. The intern should follow instructions given to him/her from time to time.

Name of Department			BSIET- 21				
Day	Monday	Date	2-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Understand the structure of Django project files and connect them to SQL Server.
Project Associated:
Django Project Setup
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, SQL Server
Conclusion/Learning:
Learned the organization of Django project files and how to link the project with SQL Server.

Name of Department			BSIET- 21				
Day	Tuesday	Date	3-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Learn and implement API methods (PUT, DELETE, GET, POST) in Django.
Project Associated:
Django API Development
Task Nature/Domain:
API Development
Tools and Technologies Used:
Django
Conclusion/Learning:
Gained skills in creating different API functions in Django.

Name of Department			BSIET- 21				
Day	Wednesday	Date	4-Sep-24	Check-in		Check-out	

Task(s) Assigned: Set up the React Native environment and help team members debug errors.
Project Associated: React Native Environment Setup
Task Nature/Domain: Frontend Setup and Support
Tools and Technologies Used: React Native
Conclusion/Learning: Set up React Native successfully and gained experience in troubleshooting setup errors.

Name of Department			BSIET- 21				
Day	Thursday	Date	5-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Create a basic app in React Native and retrieve data from the database through an API.
Project Associated:
React Native App Development
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React Native, Django API
Conclusion/Learning:
Built a simple app and practiced getting data from the database using APIs.

Name of Department			BSIET- 21				
Day	Friday	Date	6-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Implement CRUD operations in the React Native app and troubleshoot data fetching issues.
Project Associated:
React Native App Development
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React Native, Django API
Conclusion/Learning:
Learned to handle CRUD operations in React Native and solved API data-fetching issues

FOUNDATION UNIVERSITY SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)

Department of Engineering Technology

Weekly Progress Report (Week-1)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 6-Sep-24

Name of Department			BSIET-21			
Day	Monday	Date	9-Sep-24	Check-in		Check-out

Task(s) Assigned:
Create an API in Django to handle image data and send it to ChatGPT Vision- Company Task Assigned By Supervisor.
Project Associated:
Django ChatGPT Vision Integration
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, ChatGPT Vision API
Conclusion/Learning:
Learned to build an API that can manage and send image data to ChatGPT Vision.

Name of Department			BSIET-21			
Day	Tuesday	Date	10-Sep-24	Check-in		Check-out

Task(s) Assigned:
Create an API in Django to handle text data and send it to ChatGPT for text generation.
Project Associated:
Django ChatGPT Text Integration
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, ChatGPT API
Conclusion/Learning:
Developed an API for sending text data to ChatGPT, gaining experience in text-based API interactions.

Name of Department			BSIET-21				
Day	Wednesd	Date	11-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Debug errors in the API responsible for sending image data.
Project Associated:
Django ChatGPT Vision Integration
Task Nature/Domain:
Backend Debugging
Tools and Technologies Used:
Django, ChatGPT Vision API
Conclusion/Learning:
Worked on resolving issues in the image data API to improve stability and functionality.

Name of Department			BSIET-21			
Day	Friday	Date	13-Sep-24	Check-in		Check-out

Task(s) Assigned:
Fix errors in the PUT method of the API
Project Associated:
Django API Development
Task Nature/Domain:
Backend Debugging
Tools and Technologies Used:
Django
Conclusion/Learning:
Successfully resolved errors with the PUT method, improving the API's update functionality.

Name of Department			BSIET-21			
Day	Friday	Date	13-Sep-24	Check-in		Check-out

Task(s) Assigned:
Develop a React.js project and apply CRUD operations.
Project Associated:
React.js Project Development
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React.js
Conclusion/Learning:
Built a basic React project and implemented CRUD operations, reinforcing frontend development skills.

**FOUNDATION UNIVERSITY SCHOOL OF
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Department of Engineering Technology

Weekly Progress Report (Week-2)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 13-Sep-24

Name of Department			BSIET-21			
Day	Monday	Date	16-Sep-24	Check-in		Check-out

Task(s) Assigned:
Start adding image processing features (add/upload/view) in React Native.
Project Associated:
React Native App Image Processing
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React Native
Conclusion/Learning:
Began implementing image processing features, gaining initial experience with handling images in React Native.

Name of Department			BSIET-21			
Day	Tuesday	Date	17-Sep-24	Check-in		Check-out

Task(s) Assigned:
Eid Milad-un-Nabi Holiday
Project Associated:
Task Nature/Domain:
Tools and Technologies Used:
Conclusion/Learning:
Holiday, no work done.

Name of Department			BSIET-21			
Day	Wednesday	Da	18-Sep-24	Check-in		Check-out

Task(s) Assigned:
Complete the image processing feature and integrate JWT authentication for API endpoints.
Project Associated:
React Native App and Django API Security
Task Nature/Domain:
Frontend and Backend Development
Tools and Technologies Used:
React Native, Django, JWT Authentication
Conclusion/Learning:
Finished image processing in the app and secured the API endpoints with JWT authentication.

Name of Department			BSIET-21			
Day	Thursday	Da	19-Sep-24	Check-in		Check-out

Task(s) Assigned:
Add a simple authentication method for the API and prepare API for Books, Library, and Members entities in Django.
Project Associated:
Django API Development
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Basic Authentication
Conclusion/Learning:
Set up basic API authentication and created initial structure for managing Books, Library, and Members entities in Django

Name of Department		BSIET-21			
Day	Friday	Da	20-Sep-24	Check-in	Check-out

Task(s) Assigned:
Implement the APIs for Library, Members, and Books entities in Django and ensure integration with the React Native app.
Project Associated:
Full-stack Library Management
Task Nature/Domain:
Backend and Frontend Integration
Tools and Technologies Used:
Django, React Native
Conclusion/Learning:
Successfully implemented and integrated the Library, Members, and Books APIs with React Native, completing full-stack functionality.

FOUNDATION UNIVERSITY SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)

Department of Engineering Technology

Weekly Progress Report (Week-3)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 20-Sep-24

Name of Department			BSIET-21				
Day	Monday	Date	23-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Explore the concept of <code>useQuery</code> in React Native.
Project Associated:
React Native Data Fetching
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React Native, <code>useQuery</code> (likely from React Query)
Conclusion/Learning:
Gained an understanding of <code>useQuery</code> for efficient data fetching and caching in React Native

Name of Department				BSIET-21			
Day	Tuesday	Date	24-Sep-24	Check-in		Check-out	

Task(s) Assigned:

Leave

Project Associated:

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Task Nature/Domain:

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Tools and Technologies Used:

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Conclusion/Learning:

No work done.

Name of Department			BSIET-21			
Day	Wednesday	Da	25-Sep-24	Check-in		Check-out

Task(s) Assigned:
Develop a basic screen to fetch data from the API using <code>useQuery</code> . (Client Project)
Project Associated:
React Native Data Fetching
Task Nature/Domain:
Frontend Development
Tools and Technologies Used:
React Native, <code>useQuery</code>
Conclusion/Learning:
Built a screen to fetch and display data using <code>useQuery</code> , applying the knowledge gained from Monday's exploration.

Name of Department			BSIET-21			
Day	Thursday	Da	26-Sep-24	Check-in		Check-out

Task(s) Assigned:
Work on a Django API to format Excel files based on a specified template. (Company Task)
Project Associated:
Django API for Excel Formatting
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel file handling libraries (e.g., openpyxl or pandas)
Conclusion/Learning:
Started developing an API to format Excel files, learning about Excel processing in Django.

Name of Department			BSIET-21			
Day	Friday	Da	27-Sep-24	Check-in		Check-out

Task(s) Assigned:
Continue working on the Django API to format Excel files, focusing on date formatting. (Company Task)
Project Associated:
Django API for Excel Formatting
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel file handling libraries
Conclusion/Learning:
Progressed on date formatting in Excel files, improving understanding of Excel manipulations in Django

**FOUNDATION UNIVERSITY SCHOOL OF
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Department of Engineering Technology

Weekly Progress Report (Week-4)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 27-Sep-24

Name of Department				BSIET			
Day	Monday	Date	30-Sep-24	Check-in		Check-out	

Task(s) Assigned:
Continue creating a Django API to format Excel sheets and extract data
Project Associated:
Django API for Excel Formatting and Data Extraction
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries (e.g., openpyxl or pandas)
Conclusion/Learning:
Made progress on building an API for formatting and extracting data from Excel files.

Name of Department				BSIET			
Day	Tuesday	Date	1-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Continue working on the API for formatting and data extraction in Excel sheets.
Project Associated:
Django API for Excel Formatting and Data Extraction
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Further developed the Excel formatting and extraction API, improving Excel handling skills.

Name of Department			BSIET			
Day	Wednesday	Date	2-Oct-24	Check-in		Check-out

Task(s) Assigned:
Continue working on the Excel formatting and data extraction API in Django
Project Associated:
Django API for Excel Formatting and Data Extraction
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Continued to refine and test the API, focusing on accurate data extraction and formatting.

Name of Department			BSIET			
Day	Thursday	Date	3-Oct-24	Check-in		Check-out

Task(s) Assigned:
Finalize the API to convert company Excel sheets into the required format.
Project Associated:
Django API for Excel Formatting
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
API is now working as expected, successfully converting Excel files to the required format.

Name of Department			BSIET			
Day	Friday	Date	4-Oct-24	Check-in		Check-out

Task(s) Assigned:
Work on API issues, such as concatenating DOB with patient names and ensuring codes don't auto-fill incorrectly.
Project Associated:
Django API for Excel Formatting and Data Validation
Task Nature/Domain:
Backend Debugging and Validation
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Addressed specific formatting and validation issues, focusing on accurate data representation in Excel.

**FOUNDATION UNIVERSITY SCHOOL OF
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Department of Engineering Technology

Weekly Progress Report (Week-5)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 4-Oct-24

Name of Department			BSIET-21				
Day	Monday	Date	7-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Resolve issues with the Excel API (concatenating DOB with patient names and preventing codes from auto-filling in empty fields).
Project Associated:
Django API for Excel Formatting
Task Nature/Domain:
Backend Debugging
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Successfully fixed the issues to ensure correct data formatting and presentation.

Name of Department			BSIET-21				
Day	Tuesday	Date	8-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Develop new logic to handle an additional type of Excel format.
Project Associated:
Django API for Multi-format Excel Handling
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Started creating logic to accommodate different Excel formats, expanding the API's versatility.

Name of Department			BSIET-21			
Day	Wednesday	Date	9-Oct-24	Check-in		Check-out

Task(s) Assigned:
Continue developing new logic to handle another type of Excel format.
Project Associated:
Django API for Multi-format Excel Handling
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Progressed on supporting additional Excel formats, improving adaptability of the API.

Name of Department			BSIET-21			
Day	Thursday	Da	10-Oct-24	Check-in		Check-out

Task(s) Assigned:
Implement fixes requested by the Team Lead. Ensure the API converts company Excel sheets from four different formats to the required format.
Project Associated:
Django API for Multi-format Excel Handling
Task Nature/Domain:
Backend Development and Debugging
Tools and Technologies Used:
Django, Excel handling libraries
Conclusion/Learning:
Finalized the API to handle multiple Excel formats as required, meeting project specifications.

Name of Department			BSIET-21			
Day	Friday	Da	11-Oct-24	Check-in		Check-out

Task(s) Assigned:
Develop API endpoints for user signup and login in Django.
Project Associated:
User Authentication API
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, JWT or basic authentication
Conclusion/Learning:
Successfully built user signup and login endpoints, adding basic user authentication functionality.

FOUNDATION UNIVERSITY SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)

Department of Engineering Technology

Weekly Progress Report (Week-6)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 11-Oct-24

Name of Department			BSIET-21				
Day	Monday	Date	14-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Develop API endpoints for forgot password, verify, and reset password, and implement JWT authentication
Project Associated:
User Authentication API
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django, JWT Authentication
Conclusion/Learning:
Successfully created password recovery endpoints, securing them with JWT authentication.

Name of Department			BSIET-21				
Day	Tuesday	Date	15-Oct-24	Check-in		Check-out	

Task(s) Assigned: Begin frontend work in React Native; create screens for signup, signin, forgot password, verify, and reset password
Project Associated: React Native Authentication Screens
Task Nature/Domain: Frontend Development
Tools and Technologies Used: React Native
Conclusion/Learning: Designed and set up essential authentication screens, laying the groundwork for user interaction.

Name of Department			BSIET-21			
Day	Wednesday	Dat	16-Oct-24	Check-in		Check-out

Task(s) Assigned:
Start integrating backend APIs with the frontend authentication screens.
Project Associated:
Full-stack Authentication Integration
Task Nature/Domain:
Frontend-Backend Integration
Tools and Technologies Used:
React Native, Django APIs
Conclusion/Learning:
Progressed in connecting the frontend and backend, allowing the app to communicate with the authentication APIs.

Name of Department			BSIET-21			
Day	Thursday	Date	17-Oct-24	Check-in		Check-out

Task(s) Assigned:
Complete the integration of backend APIs with the frontend.
Project Associated:
Full-stack Authentication Integration
Task Nature/Domain:
Frontend-Backend Integration
Tools and Technologies Used:
React Native, Django APIs
Conclusion/Learning:
Successfully completed the full integration, enabling the app to handle user authentication seamlessly.

Name of Department			BSIET-21			
Day	Friday	Date	18-Oct-24	Check-in		Check-out

Task(s) Assigned:
Leave
Project Associated:
Task Nature/Domain:
Tools and Technologies Used:
Conclusion/Learning:
No work done.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-7)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Mam Amina Ijaz

Signature:

Dated: Friday, 18-Oct-24

Name of Department				BSIET-21			
Day	Monday	Date	21-Oct-24	Check-in		Check-out	

Task(s) Assigned:							
Leave							
Project Associated:							
Task Nature/Domain:							
Tools and Technologies Used:							
Conclusion/Learning:							

Name of Department			BSIET-21				
Day	Tuesday	Date	22-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Create a web page in React.js and integrate it with the API for formatting Excel documents.
Project Associated:
React.js Web Page for Excel Formatting
Task Nature/Domain:
Frontend Development and API Integration
Tools and Technologies Used:
React.js, Django API
Conclusion/Learning:
Successfully built and connected a React.js web page to the Excel formatting API, allowing users to process documents through the web interface.

Name of Department			BSIET-21			
Day	Wednesday	Date	23-Oct-24	Check-in		Check-out

Task(s) Assigned:						
Leave						
Project Associated:						
Task Nature/Domain:						
Tools and Technologies Used:						
Conclusion/Learning:						

Name of Department			BSIET-21			
Day	Thursday	Date	24-Oct-24	Check-in		Check-out

Task(s) Assigned:
Begin working on generating Python code using GPT.
Project Associated:
GPT-powered Code Generation
Task Nature/Domain:
Research and Development
Tools and Technologies Used:
GPT API, Python
Conclusion/Learning:
Started exploring GPT's capability to generate Python code, focusing on understanding the setup and initial requirements.

Name of Department		BSIET-21			
Day	Friday	Date	25-Oct-24	Check-in	Check-out

Task(s) Assigned:
Gather and clean raw data for training GPT on Python code; cloned Python repositories from 2021-2024 and removed unnecessary files.
Project Associated:
Data Preparation for GPT Training
Task Nature/Domain:
Data Collection and Preprocessing
Tools and Technologies Used:
GitHub, Python
Conclusion/Learning:
Collected and prepared a dataset of Python files, laying the foundation for training GPT with relevant code data.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-8)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 25-Oct-24

Name of Department			BSIET-21				
Day	Monday	Date	28-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Generate Python code with GPT by preprocessing and tokenizing the dataset.
Project Associated:
GPT-powered Code Generation
Task Nature/Domain:
Data Preprocessing
Tools and Technologies Used:
Python, GPT API
Conclusion/Learning:
Completed dataset preprocessing and tokenization, preparing it for GPT model training.

Name of Department			BSIET-21				
Day	Tuesday	Date	29-Oct-24	Check-in		Check-out	

Task(s) Assigned:
Train GPT to generate Python code and perform initial testing
Project Associated:
GPT-powered Code Generation
Task Nature/Domain:
Model Training and Testing
Tools and Technologies Used:
Python, GPT API
Conclusion/Learning:
Model provided limited results due to a small dataset (12,805 Python files). While it could complete simple statements (e.g., closing a <code>print</code> statement), a much larger dataset would be needed for robust code generation. If we pass larger dataset through the same algorithm it would give the best result.

Name of Department			BSIET-21			
Day	Wednesday	Date	30-Oct-24	Check-in		Check-out

Task(s) Assigned:
Begin working on a real-time chatbot using Django Websockets; create a screen in React Native and connect Websockets.
Project Associated:
Real-time Chatbot with Django Websockets
Task Nature/Domain:
Frontend and Backend Development
Tools and Technologies Used:
Django Websockets, React Native
Conclusion/Learning:
Successfully connected the chatbot frontend to Websockets; working on resolving issues with saving chat history to the database.

Name of Department			BSIET-21			
Day	Thursday	Date	31-Oct-24	Check-in		Check-out

Task(s) Assigned: Leave- UNI OFFICIAL TRIP
Project Associated:
Task Nature/Domain:
Tools and Technologies Used:
Conclusion/Learning:

Name of Department			BSIET-21			
Day	Friday	Date	1-Nov-24	Check-in		Check-out

Task(s) Assigned:
Leave
Project Associated:
Task Nature/Domain:
Tools and Technologies Used:
Conclusion/Learning:

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-9)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 1-Nov-24

Name of Department			BSIET-21				
Day	Monday	Date	4-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Work on Django Websockets for real-time chatting (pending).
Project Associated:
Real-time Chatbot with Django Websockets
Task Nature/Domain:
Backend Development
Tools and Technologies Used:
Django Websockets
Conclusion/Learning:
The work on Django Websockets for real-time chat is still in progress.

Name of Department			BSIET-21				
Day	Tuesday	Date	5-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Start QA testing for the OCR API by verifying responses from different PDFs and images (from different practices).
Project Associated:
OCR API Quality Assurance
Task Nature/Domain:
QA Testing
Tools and Technologies Used:
OCR API, PDFs, and images
Conclusion/Learning:
Began testing the OCR API to ensure it provides correct responses and data across various document types of Medical Billing.

Name of Department		BSIET-21			
Day	Wednesday	Date	6-Nov-24	Check-in	Check-out

Task(s) Assigned:
Continue QA testing for the OCR API.
Project Associated:
OCR API Quality Assurance
Task Nature/Domain:
QA Testing
Tools and Technologies Used:
OCR API, PDFs, and images
Conclusion/Learning:
Continued the QA process, identifying potential issues in the OCR's data extraction from different document types.

Name of Department			BSIET-21			
Day	Thursday	Date	7-Nov-24	Check-in		Check-out

Task(s) Assigned:
Continue QA testing for the OCR API.
Project Associated:
OCR API Quality Assurance
Task Nature/Domain:
QA Testing
Tools and Technologies Used:
OCR API, PDFs, and images
Conclusion/Learning:
Continued testing and documenting issues, ensuring comprehensive coverage for the OCR API's functionality.

Name of Department		BSIET-21			
Day	Friday	Date	8-Nov-24	Check-in	Check-out

Task(s) Assigned:
Completed QA testing for the OCR API.
Project Associated:
OCR API Quality Assurance
Task Nature/Domain:
QA Testing
Tools and Technologies Used:
OCR API, PDFs, and images
Conclusion/Learning:
Completed the QA testing and documented the issues encountered during the process.

FOUNDATION UNIVERSITY SCHOOL OF SCIENCE & TECHNOLOGY (FUSST)

Department of Engineering Technology

Weekly Progress Report (Week-10)

Student Name: Mutti Ullah

Batch: BSIET -21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 8-Nov-24

Name of Department			BSIET-21				
Day	Monday	Date	11-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Developed APIs in Django for chatting between two people
Project Associated:
Chat Application Development.
Task Nature/Domain:
Backend Development, Real-Time Communication.
Tools and Technologies Used:
Django, WebSocket, consumer.py
Conclusion/Learning:
Gained experience in implementing WebSocket communication for real-time chat functionality using Django

Name of Department			BSIET-21				
Day	Tuesday	Date	12-Nov-24	Check-in		Check-out	

Task(s) Assigned:							
Continued development of APIs in Django for chatting between two people, completing the task.							
Project Associated:							
Chat Application Development							
Task Nature/Domain:							
Backend Development, Real-Time Communication.							
Tools and Technologies Used:							
Django, WebSocket, consumer.py.							
Conclusion/Learning:							
Improved understanding of WebSocket handling and API development in Django. Task successfully completed.							

Name of Department			BSIET-21		
Day	Wednesday	Da	13-Nov-24	Check-in	Check-out

Task(s) Assigned:
Started working on views in Django for secure sign-in, sign-up, room creation/joining, and file upload to the database
Project Associated:
Chat Application Development
Task Nature/Domain:
Backend Development, Authentication, File Management
Tools and Technologies Used:
Django, Django ORM, Authentication Libraries
Conclusion/Learning:
Learned about designing secure authentication views and setting up file upload functionality. Work in progress

Name of Department			BSIET-21		
Day	Thursday	Da	14-Nov-24	Check-in	Check-out

Task(s) Assigned:
Completed the development of views in Django for secure sign-in, sign-up, room creation/joining, and file upload to the database.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Backend Development, Authentication, File Management.
Tools and Technologies Used:
Django, Django ORM, Authentication Libraries.
Conclusion/Learning:
Successfully implemented secure user authentication and file upload functionality.

Name of Department			BSIET-21			
Day	Friday	Date	15-Nov-24	Check-in		Check-out

Task(s) Assigned:
Started working on a React Native mobile app and created the basic structure to fetch data from APIs
Project Associated:
Chat Application Development
Task Nature/Domain:
Mobile App Development, API Integration
Tools and Technologies Used:
React Native, JavaScript, APIs.
Conclusion/Learning:
Gained familiarity with setting up a React Native project and integrating APIs for fetching data.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-11)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 15 Nov 24

Name of Department			BSIET				
Day	Monday	Date	18-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Set up drawer, bottom, and stack navigations using the React Native Paper library
Project Associated:
Chat Application Development
Task Nature/Domain:
Mobile App Development, UI/UX Design
Tools and Technologies Used:
React Native, React Navigation, React Native Paper
Conclusion/Learning:
Learned to implement navigational patterns using the React Native Paper library for better app design

Name of Department			BSIET				
Day	Tuesday	Date	19-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Began implementing dynamic theme switching (Dark/Light mode) using React Native Paper.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Mobile App Development, Theming
Tools and Technologies Used:
React Native, React Native Paper.
Conclusion/Learning:
Gained insights into theme management but did not complete the task on this day.

Name of Department			BSIET			
Day	Wednesday	Date	20-Nov-24	Check-in		Check-out

Task(s) Assigned:
Continued and completed the implementation of dynamic theme switching (Dark/Light mode) using React Native Paper
Project Associated:
Chat Application Development.
Task Nature/Domain:
Mobile App Development, Theming
Tools and Technologies Used:
React Native, React Native Paper
Conclusion/Learning:
Successfully implemented theme switching, improving user experience with dynamic themes.

Name of Department			BSIET			
Day	Thursday	Date	21-Nov-24	Check-in		Check-out

Task(s) Assigned:
Designed and created additional screens for the chat application in React Native.
Project Associated:
Chat Application Development
Task Nature/Domain:
Mobile App Development, UI/UX Design.
Tools and Technologies Used:
React Native, React Native Paper, JavaScript.
Conclusion/Learning:
Improved skills in screen design and development using React Native Paper components.

Name of Department		BSIET			
Day	Friday	Date	22-Nov-24	Check-in	Check-out

Task(s) Assigned: Worked on creating logic for uploading and displaying images on the frontend from the Django server.
Project Associated: Chat Application Development
Task Nature/Domain: Backend-Frontend Integration, Image Handling.
Tools and Technologies Used: React Native, Django, APIs.
Conclusion/Learning: Enhanced understanding of integrating Django APIs with React Native for image upload and display functionality.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-12)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: Friday, 22-Nov-24

Name of Department			BSIET-21				
Day	Monday	Date	25-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Resolved errors encountered during the integration of the frontend and backend.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Backend-Frontend Integration, Debugging
Tools and Technologies Used:
React Native, Django, APIs.
Conclusion/Learning:
Improved problem-solving skills and gained experience in troubleshooting integration issues

Name of Department			BSIET-21				
Day	Tuesday	Date	26-Nov-24	Check-in		Check-out	

Task(s) Assigned:
Worked on implementing real-time notifications from the database using WebSockets.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Real-Time Communication, Backend Development.
Tools and Technologies Used:
Django, WebSockets.
Conclusion/Learning:
Explored real-time notification handling with WebSockets but did not complete the task.

Name of Department			BSIET-21			
Day	Wednesday	Date	27-Nov-24	Check-in		Check-out

Task(s) Assigned:
Began developing APIs for an attendance module as assigned by the Team Lead.
Project Associated:
Attendance Management Module.
Task Nature/Domain:
Backend Development, API Design.
Tools and Technologies Used:
Django, Django REST Framework.
Conclusion/Learning:
Initiated the development of attendance-related APIs but the task remained incomplete.

Name of Department			BSIET-21			
Day	Thursday	Date	28-Nov-24	Check-in		Check-out

Task(s) Assigned:
Continued and completed the development of APIs for the attendance module.
Project Associated:
Attendance Management Module.
Task Nature/Domain:
Backend Development, API Design
Tools and Technologies Used:
Django, Django REST Framework.
Conclusion/Learning:
Successfully implemented and tested attendance-related APIs, ensuring robust backend functionality.

Name of Department		BSIET-21			
Day	Friday	Date	29-Nov-24	Check-in	Check-out

Task(s) Assigned: Designed screens to fetch data from the database and mark attendance, including a search box for searching names retrieved from the API.
Project Associated: Attendance Management Module.
Task Nature/Domain: Mobile App Development, Frontend Design.
Tools and Technologies Used: React Native, APIs, JavaScript.
Conclusion/Learning: Enhanced UI/UX design skills and integrated search functionality for seamless attendance marking

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-13)

Student Name: Mutti Ullah

Batch: BSIET 21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature

Dated: Friday, 29 Nov 24

Name of Department			BSIET-21				
Day	Monday	Date	2-Dec-24	Check-in		Check-out	

Task(s) Assigned:
Started working on creating a standalone React Native app and addressed build errors.
Project Associated:
React Native Standalone Application
Task Nature/Domain:
Mobile App Development, Debugging.
Tools and Technologies Used:
React Native, Node.js, JavaScript.
Conclusion/Learning:
Encountered build errors and began troubleshooting, but the task remained incomplete.

Name of Department			BSIET-21				
Day	Tuesday	Date	3-Dec-24	Check-in		Check-out	

Task(s) Assigned:
Continued working on the standalone React Native app, focusing on resolving build errors.
Project Associated:
React Native Standalone Application.
Task Nature/Domain:
Mobile App Development, Debugging
Tools and Technologies Used:
React Native, Node.js, JavaScript.
Conclusion/Learning:
Gained further insights into handling React Native build issues, though the task was not completed.

Name of Department			BSIET-21			
Day	Wednesday	Date	4-Dec-24	Check-in		Check-out

Task(s) Assigned:
Successfully created a standalone React Native app and resolved all build errors.
Project Associated:
React Native Standalone Application.
Task Nature/Domain:
Mobile App Development, Debugging.
Tools and Technologies Used:
React Native, Node.js, JavaScript.
Conclusion/Learning:
Completed the task, gaining valuable experience in resolving build errors and deploying a React Native app.

Name of Department			BSIET-21			
Day	Thursday	Date	5-Dec-24	Check-in		Check-out

Task(s) Assigned:
Worked on cleaning and optimizing the architecture of the real-time chatting app for the frontend
Project Associated:
Chat Application Development.
Task Nature/Domain:
Frontend Architecture Design, Code Optimization.
Tools and Technologies Used:
React Native, WebSocket, JavaScript.
Conclusion/Learning:
Streamlined the frontend codebase, enhancing maintainability and performance

Name of Department			BSIET-21			
Day	Friday	Date	6-Dec-24	Check-in		Check-out

Task(s) Assigned:
Continued working on implementing logic to enable real-time notifications in the app using WebSockets.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Real-Time Communication, Backend-Frontend Integration.
Tools and Technologies Used:
Django, WebSocket, React Native.
Conclusion/Learning:
Made progress in integrating WebSocket notifications but the task is still ongoing.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-14)

Student Name: Mutti Ullah

Batch: Bsiet 21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature

Dated:: Friday, 6-Dec-24

Name of Department			BSIET-21			
Day	Monday	Date	9-Dec-24	Check-in		Check-out

Task(s) Assigned:
Worked on enabling the sharing of media (files, images, videos) in real-time chatting.
Project Associated:
Application- Company Project
Task Nature/Domain:
Real-Time Communication, Media Sharing.
Tools and Technologies Used:
Django, WebSocket, React Native, APIs.
Conclusion/Learning:
Gained insights into implementing media sharing features in real-time applications, but the task is still incomplete.

Name of Department			BSIET-21			
Day	Tuesday	Date	10-Dec-24	Check-in		Check-out

Task(s) Assigned:
Addressed an issue in the "Add New Member" module to ensure that new member records synchronize immediately with the server.
Project Associated:
Application- Company Project
Task Nature/Domain:
Backend Synchronization, Real-Time Database Updates.
Tools and Technologies Used:
React Native
Conclusion/Learning:
Began working on real-time synchronization for adding members but did not complete the task.

Name of Department			BSIET-21			
Day	Wednesday	D	11-Dec-24	Check-in		Check-out

Task(s) Assigned:
Started working on implementing an AI Agentic Chatbot in the real-time chat application using WebSockets.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Real-Time Communication, AI Integration.
Tools and Technologies Used:
Django, WebSocket, Llama 3.2 Model
Conclusion/Learning:
Initiated chatbot implementation using the Llama 3.2 model, exploring AI agent integration into real-time chat apps

Name of Department			BSIET-21			
Day	Thursday	D	12-Dec-24	Check-in		Check-out

Task(s) Assigned:
Began fine-tuning the Llama 3.2 model using a custom dataset. Created the dataset by extracting data from PDFs and storing it in the databas
Project Associated:
Chat Application Development
Task Nature/Domain:
Machine Learning, Dataset Preparation.
Tools and Technologies Used:
Llama 3.2 Model, PDF Parsers, Django ORM
Conclusion/Learning:
Progressed in preparing and storing the dataset for fine-tuning the model. Task remained incomplete

Name of Department			BSIET-21			
Day	Friday	D	13-Dec-24	Check-in		Check-out

Task(s) Assigned:
Continued fine-tuning the Llama 3.2 model with the custom dataset. Further refined the dataset extracted from PDFs and stored it in the database
Project Associated:
Chat Application Development.
Task Nature/Domain:
Machine Learning, Dataset Preparation
Tools and Technologies Used:
Llama 3.2 Model, PDF Parsers, Django ORM
Conclusion/Learning:
Improved dataset quality and gained deeper insights into fine-tuning AI models. Task is still in progress.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-15)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ajiz

Signature:

Dated: 13-Dec-24

Name of Department			BSIET-21				
Day	Monday	Date	16-Dec-24	Check-in		Check-out	

Task(s) Assigned: <p>Continued fine-tuning the model using the custom dataset created from PDFs and stored in the database.</p>
Project Associated: <p>Chat Application Development.</p>
Task Nature/Domain: <p>Machine Learning, Model Fine-Tuning</p>
Tools and Technologies Used: <p>Llama 3.2 Model, PDF Parsers, Django ORM</p>
Conclusion/Learning: <p>Progressed in fine-tuning the model and handling dataset integration for improved functionality</p>

Name of Department			BSIET-21				
Day	Tuesday	Date	17-Dec-24	Check-in		Check-out	

Task(s) Assigned: Tested the app's user interface after updates to ensure consistency across different devices.
Project Associated: Chat Application Development.
Task Nature/Domain: Frontend Testing, Cross-Device Compatibility
Tools and Technologies Used: Frontend Testing, Cross-Device Compatibility
Conclusion/Learning: Improved user interface consistency and enhanced understanding of UI/UX standards across devices.

Name of Department			BSIET-21		
Day	Wednesday	Da	18-Dec-24	Check-in	Check-out

Task(s) Assigned: Tested the app's functionality, fixed issues encountered, and conducted thorough integration testing with the fine-tuned model.
Project Associated: Chat Application Development.
Task Nature/Domain: Backend-Frontend Integration, Debugging.
Tools and Technologies Used: Django, WebSocket, React Native, Llama 3.2 Model
Conclusion/Learning: Resolved integration issues and ensured seamless functionality of the app with the fine-tuned model.

Name of Department			BSIET-21			
Day	Thursday	Da	19-Dec-24	Check-in		Check-out

Task(s) Assigned:
Enhanced the dataset by cleaning and preprocessing data for better performance during model fine-tuning.
Project Associated:
Chat Application Development.
Task Nature/Domain:
Data Cleaning, Machine Learning
Tools and Technologies Used:
Python, Pandas, Data Preprocessing Libraries.
Conclusion/Learning:
Improved dataset quality and observed better results during initial fine-tuning.

Name of Department		BSIET-21			
Day	Friday	Da	20-Dec-24	Check-in	Check-out

Task(s) Assigned:
Continued cleaning and preprocessing the dataset to enhance model performance further
Project Associated:
Chat Application Development.
Task Nature/Domain:
Data Cleaning, Machine Learning.
Tools and Technologies Used:
Python, Pandas, Langchain, Chromadb, Data Preprocessing Libraries
Conclusion/Learning:
Finalized dataset preparation, ensuring it meets the requirements for optimal model fine-tuning.

**FOUNDATION UNIVERSITY SCHOOL OF
SCIENCE & TECHNOLOGY (FUSST)**

Department of Engineering Technology

Weekly Progress Report (Week-16)

Student Name: Mutti Ullah

Batch: BSIET-21

Roll No: 022

Internee Progress:

Weekly Task(s) Completion Percentage (%)	100%
Supervisor Comments (if any)	

Training Coordinator/ Industrial Supervisor

Name: Amina Ijaz

Signature:

Dated: 20-Dec-24