

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE**

**Qualification Name: N. Diploma: IT (Software Development)**

Work-Integrated learning (WIL) Log Sheets

**COURSE CODE:** NDIS04 **SUBJECT CODE:** IDC30BT

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| --- | --- |
| **Date of Visit:** |  |
| **Student Number:** | 219958064 |
| **Student Initials:** | NG |
| **Student Surname:** | Mnguni |
| **Company Name:** | Tshwane University of Technology |

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| --- | --- | --- | --- |
| TUT CERTIFICATION | | | |
| ACCEPTABLE WEEKS |  | NON-ACCEPTABLE WEEKS |  |
| WIL Coordinator Name:  WIL Coordinator Signature: Date: | | | |

**LOG SHEETS (24 weeks)**

# Month 1: From August 2022 to September 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Picking topic | 1 | 5 |  |  |  |
| * 1. Finding out more information about data science |  | 2 |  |  |  |
| * 1. Picking data science topic (chatbot) |  | 1 |  |  |  |
| * 1. Researching more about chatbot topic |  | 2 |  |  |  |
| 1. Proposal planning | 2 | 14 |  |  |  |
| * 1. Gathering information about proposal introduction, advantages, disadvantages, benefits, and conclusion |  | 2 |  |  |  |
| * 1. Designing proposal diagrams (work breakdown structure, PERT chart, gantt chart, user case and data flow diagram) |  | 8 |  |  |  |
| * 1. Compiling & Designing a System proposal. |  | 3 |  |  |  |
| * 1. Creating proposal pdf presentation and word proposal |  | 1 |  |  |  |
| 1. Submitting proposal | 1 | 1 |  |  |  |
| 1. Proposal presentation | 1 | 1 |  |  |  |
| 1. Assignment of tasks | 1 | 1 |  |  |  |
| * 1. Preparation to begin coding |  | 1 |  |  |  |
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|  |  |  |  |  |  |

Subtotal: Weeks

Days

23

4

## Total to date: Weeks

## Days

23

4

Number of days absent from work:

0

Reason:

**Month 2: From** September 2022 **to** October 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Learning GitHub | 1 | 4 |  |  |  |
| * 1. Creating accounts and registering on GitHub |  | 1 |  |  |  |
| * 1. Installing all needed software for GitHub |  | 1 |  |  |  |
| * 1. Learning how to upload code to share with all members |  | 1 |  |  |  |
| * 1. Creating GitHub repository and giving all members access |  | 1 |  |  |  |
| 1. Learning Python | 1 | 6 |  |  |  |
| * 1. Installing packages and all software required to run python |  | 3 |  |  |  |
| * 1. Reading, learning and notetaking from YouTube and w3school and other platforms |  | 3 |  |  |  |
| 1. Firebase real-time database | 1 | 6 |  |  |  |
| * 1. Creating an account with firestore |  | 1 |  |  |  |
| * 1. Learning firebase and firebase commands |  | 4 |  |  |  |
| * 1. Creating normalized database |  | 1 |  |  |  |
| 1. Create chatbot learning model | 1 | 5 |  |  |  |
| * 1. Creating function for chatbot functionality |  | 3 |  |  |  |
| * 1. Creating chatbot intents for all possibilities involving the chatbot |  | 2 |  |  |  |
| 1. Combining Python and firebase | 1 | 3 |  |  |  |
| 1. Retrieving, storing managing data from database | 1 | 4 |  |  |  |
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Subtotal: Weeks

Days

28

4

## Total to date: Weeks

## Days

4

28

Number of days absent from work:

0

Reason

**Month 3: From** October 2022 **to** November 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Learning react-native | 2 | 15 |  |  |  |
| * 1. Take courses and learning about react |  | 4 |  |  |  |
| * 1. Creating a structure for the chat area in react-native |  | 2 |  |  |  |
| * 1. Creating a structure for the log in page in react |  | 2 |  |  |  |
| * 1. Creating structure and layout for the doctor’s side of the log in |  | 1 |  |  |  |
| * 1. Creating structure for forgot password page |  | 2 |  |  |  |
| * 1. Creating structure and layout for help button page |  | 2 |  |  |  |
| * 1. Adding functionality to buttons and images for all pages. |  | 2 |  |  |  |
| 1. Combine react native with Python and firebase | 1 | 4 |  |  |  |
| * 1. Creating connection in python to firebase |  | 2 |  |  |  |
| * 1. Creating connection between react-native and firebase |  | 2 |  |  |  |
| 1. Learning about ide for app creation | 1 | 2 |  |  |  |
| * 1. Researching and finding out information out a way to make out code into an app |  | 2 |  |  |  |
| 1. Learning Expo | 2 | 8 |  |  |  |
| * 1. Installing all necessary software for expo |  | 2 |  |  |  |
| * 1. Merging expo and react native pages |  | 2 |  |  |  |
| * 1. Running expo on devices IOS and Android operating systems |  | 2 |  |  |  |
| * 1. Installing android studio for emulator |  | 1 |  |  |  |
| * 1. Running emulator on pc for presentation purposes. |  | 1 |  |  |  |

Subtotal: Weeks

Days

31

5

## Total to date: Weeks

## Days

5

31

Number of days absent from work:

0

Reason:

**Month 4: From** November 2022 **To** December 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Creating graphic user interface for the doctor | 1 | 6 |  |  |  |
| * 1. Adding features to the doctor’s page for viewing purposes like viewing appointments |  | 3 |  |  |  |
| * 1. Adding functionality to buttons and view ports n doctors page |  | 3 |  |  |  |
| 1. Creating registration restrictions | 1 | 5 |  |  |  |
| * 1. Making restrictions to registration pages |  | 2 |  |  |  |
| * 1. Adding error handling for incorrect inputs |  | 3 |  |  |  |
| 1. Debugging of Python and react native | 1 | 3 |  |  |  |
| * 1. Eliminating errors from react native |  | 3 |  |  |  |
| * 1. Eliminating errors from python |  | 2 |  |  |  |
| 1. Adding users and doctors | 1 | 3 |  |  |  |
| * 1. Adding dummy users for presentation purposes |  | 3 |  |  |  |
| 1. First testing | 1 | 4 |  |  |  |
| * 1. Running the program to check that all functionality works |  | 4 |  |  |  |
| 1. Preparation for the second final presentation | 1 | 2 |  |  |  |
| 1. Combining code from all members | 1 | 3 |  |  |  |
| * 1. Adding selenium to python code. |  | 3 |  |  |  |
| 1. Finalizing all requirements | 1 | 3 |  |  |  |
|  |  |  |  |  |  |

29

Subtotal: Weeks

Days

5

## Total to date: Weeks

## Days

5

29

Number of days absent from work:

0

Reason:

**Month 5: From** December 2022 **to** January 2023

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| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Final Testing and compilation | 1 | 2 |  |  |  |
| 1. Preparation for second last presentation | 1 | 2 |  |  |  |
| 1. Attending presentation | 1 | 1 |  |  |  |
| * 1. Getting input on what to fix |  | 1 |  |  |  |
| * 1. Conducting internal evaluation of code and find ways to limit user input errors |  | 1 |  |  |  |
| 1. Learning about sockets and flask | 4 | 25 |  |  |  |
| * 1. Creating code for flask api |  | 4 |  |  |  |
| * 1. Creating code for async api |  | 3 |  |  |  |
| * 1. Creating code for a socket api |  | 3 |  |  |  |
| * 1. Picking the best suited api |  | 4 |  |  |  |
| * 1. Connecting api to react-native |  | 5 |  |  |  |
| * 1. Testing connection and sending data to react-native |  | 1 |  |  |  |
| * 1. Handling errors and converting data to json |  | 3 |  |  |  |
| * 1. Running the code |  | 2 |  |  |  |
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30

Subtotal: Weeks

Days

5

## Total to date: Weeks

## Days

5

30

Number of days absent from work:

0

Reason:

**Month 6: From** 01 January 2023 **to** 31 January 2023

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| --- | --- | --- | --- | --- | --- |
| **Summary of Tasks** | **Duration** | | **Evaluation** | | |
| Weeks | Days | Poor | Satisfactory | Good |
| 1. Creating a new python socket.io api for easier sending | 2 | 9 |  |  |  |
| * 1. Conducting more research about api |  | 2 |  |  |  |
| * 1. Trying multithreading with different api |  | 4 |  |  |  |
| * 1. Connecting api to firebase |  | 2 |  |  |  |
| * 1. Run testing |  | 1 |  |  |  |
| 1. Running final testing | 1 | 2 |  |  |  |
| 1. Creating dummy doctors and clients for final presentation | 1 | 2 |  |  |  |
| 1. Finalizing logbook for final presentation | 1 | 1 |  |  |  |
| 1. Attending final presentation | 1 | 1 |  |  |  |
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3

15

3

Subtotal: Weeks

Days

## Total to date: Weeks

## Days

15

Number of days absent from work:

0