**MY WEEKLY REPORT**

**WEEK ONE (5 th July 2022).**

ACTIVITIES CARRIED OUT

1. **GIT INTRODUCTION**

Under the introduction we were introduced to git as a version control system and looked at the difference between devops and git’s management system. The following points which guaranteed a good understanding of git were discussed.

* Continuous improvement of project using git.
* Managing the various project versions.
* Creation of branches using git.
* Understanding the pull request.
* Version control overview.
* Git overview
* Git installation
* A general overview of git syntax
* How to get help from git in case of difficulties
* Setting a workable git environment using some specified syntax in git, (git configuration of user information and the default editor).
* Starting git using the git init syntax(git initialization)
* An understanding of git locations and how files are being treated in each location.
* Creation of local repositories using command line.
* Adding files and folders to the staging area using the command line
* Viewing the status of files in the working tree
* Committing to the local repository
* Viewing the commit history using git log
* How to link the local repository to a remote repos
* Cloning remote to local repository
* Viewing remote repository
* Pulling and Fetching
* Adding files from local to remote repository using git push origin.

**2 .GIT BRANCHING AND MERGING**

* GIT’s graph model which defines the relation between the various commits in a repository
* GIT ID’S
* Git objects which are basically four of them
* GIT referencing
* Branching using the command line
* Merging of files using the command line
* Resolving merging conflict
* Tracking branching using command
* Fetching pull-push using command line
* Rebasing using command line
* Rewriting history using command line

**WEEK TWO (12 th 2022).**

ACTIVITIES OF THE WEEK.

1. **DATABASE DESIGN**

* **Understanding database**
* DEFINITION: database is the conceptual and logical representation of data in a database.
* Understanding the functions of entities in a database
* Understanding data variables
* Understanding data attribute
* Establishing relationships amongst entities in a database

1. **The five steps involved in database design**

* Planning and analyses
* Conceptual design
* Logical design
* Physical design
* Implementation

1. **The eight steps of data modeling**

* Identification of data objects and relationships
* Drafting the initial ER diagram with entities and relationships
* Refining the ER diagram
* Adding key attributes to the diagram
* Diagramming generalization hierarchies
* Validating the model through normalization
* Adding business and integrity rules to the model

1. **INPLEMEMTATION OF THE ABOVE MENTIONED STEPS IN REALISING A PROJECT**

**PROJECT NAME: LOST BUT FOUND**

Building a database which permits a document to be retrieved in case it is misplaced.